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FINJAN, INC.

10 **IN THE UNITED STATES DISTRICT COURT**
11 **FOR THE NORTHERN DISTRICT OF CALIFORNIA**

13 FINJAN, INC., a Delaware Corporation,
14 Plaintiff,
15 v.
16 QUALYS INC., a Delaware Corporation,
17 Defendant.

Case No.:
**COMPLAINT FOR PATENT
INFRINGEMENT**
DEMAND FOR JURY TRIAL

1 **COMPLAINT FOR PATENT INFRINGEMENT**

2 Plaintiff Finjan, Inc. (“Finjan”) files this Complaint for Patent Infringement and Demand for
3 Jury Trial against Qualys Inc. (“Defendant” or “Qualys”) and alleges as follows:

4 **THE PARTIES**

5 1. Finjan is a Delaware Corporation with its principal place of business at 2000 University
6 Avenue, Suite 600, E. Palo Alto, California 94303.

7 2. Upon information and belief, Qualys Inc. is a Delaware Corporation with its principle
8 place of business at 919 E. Hillsdale Boulevard, 4th Floor, Foster City, California 94404.

9 **JURISDICTION AND VENUE**

10 3. This action arises under the Patent Act, 35 U.S.C. § 101 *et seq.* This Court has original
11 jurisdiction over this controversy pursuant to 28 U.S.C. §§ 1331 and 1338.

12 4. Venue is proper in this Court pursuant to 28 U.S.C. §§ 1391(b) and (c) and/or 1400(b).

13 5. This Court has personal jurisdiction over Defendant. Defendant regularly and
14 continuously does business in this District and has infringed or induced infringement, and continues to
15 do so, in this District. Upon information and belief, Defendant maintains an office within this District
16 in Foster City, California. Upon information and belief, Defendant’s office in Foster City is a regular
17 and established place of business and its principal place of business. In addition, the Court has
18 personal jurisdiction over Defendant because minimum contacts have been established with the forum
19 and the exercise of jurisdiction would not offend traditional notions of fair play and substantial justice.

20 **INTRADISTRICT ASSIGNMENT**

21 6. Pursuant to Local Rule 3-2(c), Intellectual Property Actions are assigned on a district-
22 wide basis.

23 **FINJAN’S INNOVATIONS**

24 7. Finjan was founded in 1997 as a wholly-owned subsidiary of Finjan Software Ltd., an
25 Israeli corporation. In 1998, Finjan moved its headquarters to San Jose, California. Finjan was a
26 pioneer in developing proactive security technologies capable of detecting previously unknown and
27 emerging online security threats, recognized today under the umbrella term “malware.” These
28

1 technologies protect networks and endpoints by identifying suspicious patterns and behaviors of
2 content delivered over the Internet. The United States Patent and Trademark Office (“USPTO”)
3 awarded to Finjan, and Finjan continues to prosecute, numerous patents covering innovations in the
4 United States and around the world resulting directly from Finjan’s more than decades-long research
5 and development efforts, supported by a dozen inventors and over \$65 million in R&D investments.

6 8. Finjan built and sold software, including application program interfaces (APIs) and
7 appliances for network security, using these patented technologies. These products and related
8 customers continue to be supported by Finjan’s licensing partners. At its height, Finjan employed
9 nearly 150 employees around the world building and selling security products and operating the
10 Malicious Code Research Center, through which it frequently published research regarding network
11 security and current threats on the Internet. Finjan’s pioneering approach to online security drew
12 equity investments from two major software and technology companies, the first in 2005 followed by
13 the second in 2006. Finjan generated millions of dollars in product sales and related services and
14 support revenues through 2009, when it spun off certain hardware and technology assets in a merger.
15 Pursuant to this merger, Finjan was bound to a non-compete and confidentiality agreement, under
16 which it could not make or sell a competing product or disclose the existence of the non-compete
17 clause. Finjan became a publicly traded company in June 2013, capitalized with \$30 million. After
18 Finjan’s obligations under the non-compete and confidentiality agreement expired in March 2015,
19 Finjan re-entered the development and production sector of secure mobile products for the consumer
20 market.

21 **FINJAN’S ASSERTED PATENTS**

22 9. On November 28, 2000, the USPTO issued to Shlomo Touboul and Nachshon Gal U.S.
23 Patent No. 6,154,844 (“the ‘844 Patent”), titled “SYSTEM AND METHOD FOR ATTACHING A
24 DOWNLOADABLE SECURITY PROFILE TO A DOWNLOADABLE.” A true and correct copy of
25 the ‘844 Patent is attached to this Complaint as Exhibit 1 and is incorporated by reference herein.

26 10. All rights, title, and interest in the ‘844 Patent have been assigned to Finjan, who is the
27 sole owner of the ‘844 Patent. Finjan has been the sole owner of the ‘844 Patent since its issuance.
28

1 11. The ‘844 Patent is generally directed towards computer networks, and more
2 particularly, provides a system that protects devices connected to the Internet from undesirable
3 operations from web-based content. One of the ways this is accomplished is by linking a security
4 profile to such web-based content to facilitate the protection of computers and networks from
5 malicious web-based content. The ‘844 Patent discloses and specifically claims inventive concepts
6 that represent significant improvements over conventional network security technology that was
7 available at the time of filing of the ‘844 Patent and are more than just generic software components
8 performing conventional activities.

9 12. On March 18, 2014, the USPTO issued to Yigal Mordechai Edery, Nimrod Itzhak
10 Vered, David R. Kroll, and Shlomo Touboul U.S. Patent No. 8,677,494 (“the ‘494 Patent”), titled
11 “MALICIOUS MOBILE CODE RUNTIME MONITORING SYSTEM AND METHODS.” A true
12 and correct copy of the ‘494 Patent is attached to this Complaint as Exhibit 2 and is incorporated by
13 reference herein.

14 13. All rights, title, and interest in the ‘494 Patent have been assigned to Finjan, who is the
15 sole owner of the ‘494 Patent. Finjan has been the sole owner of the ‘494 Patent since its issuance.

16 14. The ‘494 Patent is generally directed towards a method and system for deriving security
17 profiles and storing the security profiles. One of the ways this is accomplished is by deriving a
18 security profile for a downloadable, which includes a list of suspicious computer operations, and
19 storing the security profile in a database. The ‘494 Patent discloses and specifically claims inventive
20 concepts that represent significant improvements over conventional network security technology that
21 was available at the time of filing of the ‘494 Patent and are more than just generic software
22 components performing conventional activities.

23 15. On July 5, 2011, the USPTO issued to Moshe Rubin, Moshe Matitya, Artem Melnick,
24 Shlomo Touboul, Alexander Yermakov and Amit Shaked U.S. Patent No. 7,975,305 (“the ‘305
25 Patent”), titled “METHOD AND SYSTEM FOR ADAPTIVE RULE-BASED CONTENT
26 SCANNERS FOR DESKTOP COMPUTERS.” A true and correct copy of the ‘305 Patent is attached
27 to this Complaint as Exhibit 3 and is incorporated by reference herein.
28

1 16. All rights, title, and interest in the ‘305 Patent have been assigned to Finjan, who is the
2 sole owner of the ‘305 Patent. Finjan has been the sole owner of the ‘305 Patent since its issuance.

3 17. The ‘305 Patent is generally directed towards network security and, in particular, rule
4 based scanning of web-based content for exploits. One of the ways this is accomplished is by using
5 parser and analyzer rules to describe computer exploits as patterns of types of tokens. Additionally,
6 the system provides a way to keep these rules updated. The ‘305 Patent discloses and specifically
7 claims inventive concepts that represent significant improvements over conventional network security
8 technology that was available at the time of filing of the ‘305 Patent and are more than just generic
9 software components performing conventional activities.

10 18. On July 17, 2012, the USPTO issued to Moshe Rubin, Moshe Matitya, Artem Melnick,
11 Shlomo Touboul, Alexander Yermakov and Amit Shaked U.S. Patent No. 8,225,408 (“the ‘408
12 Patent”), titled “METHOD AND SYSTEM FOR ADAPTIVE RULE-BASED CONTENT
13 SCANNERS.” A true and correct copy of the ‘408 Patent is attached to this Complaint as Exhibit 4
14 and is incorporated by reference herein.

15 19. All rights, title, and interest in the ‘408 Patent have been assigned to Finjan, who is the
16 sole owner of the ‘408 Patent. Finjan has been the sole owner of the ‘408 Patent since its issuance.

17 20. The ‘408 Patent is generally directed towards network security and, in particular, rule
18 based scanning of web-based content for a variety of exploits written in different programming
19 languages. One of the ways this is accomplished is by expressing the exploits as patterns of tokens.
20 Additionally, the disclosed system provides a way to analyze these exploits by using a parse tree. The
21 ‘408 Patent discloses and specifically claims inventive concepts that represent significant
22 improvements over conventional network security technology that was available at the time of filing of
23 the ‘408 Patent and are more than just generic software components performing conventional
24 activities.

25 21. On November 15, 2005, the USPTO issued to Shlomo Touboul U.S. Patent No.
26 6,965,968 (“the ‘968 Patent”), titled “POLICY-BASED CACHING.” A true and correct copy of the
27 ‘968 Patent is attached to this Complaint as Exhibit 5 and is incorporated by reference herein.
28

1 22. All rights, title, and interest in the ‘968 Patent have been assigned to Finjan, who is the
2 sole owner of the ‘968 Patent. Finjan has been the sole owner of the ‘968 Patent since its issuance.

3 23. The ‘968 Patent is generally directed towards methods and systems for enabling policy-
4 based cache management to determine if digital content is allowable relative to a policy. One of the
5 ways this is accomplished is scanning digital content to derive a content profile and determining
6 whether the digital content is allowable for a policy based on the content profile. The ‘968 Patent
7 discloses and specifically claims inventive concepts that represent significant improvements over
8 conventional network security technology that was available at the time of filing of the ‘968 Patent and
9 are more than just generic software components performing conventional activities.

10 24. On August 26, 2008, the USPTO issued to Shlomo Touboul U.S. Patent No. 7,418,731
11 (“the ‘731 Patent”), titled “METHOD AND SYSTEM FOR CACHING AT SECURE GATEWAYS.”
12 A true and correct copy of the ‘731 Patent is attached to this Complaint as Exhibit 6 and is
13 incorporated by reference herein.

14 25. All rights, title, and interest in the ‘731 Patent have been assigned to Finjan, who is the
15 sole owner of the ‘731 Patent. Finjan has been the sole owner of the ‘731 Patent since its issuance.

16 26. The ‘731 Patent is generally directed towards methods and systems for providing an
17 efficient security system. One of the ways this is accomplished is by implementing a variety of caches
18 to increase performance of the system. The ‘731 Patent discloses and specifically claims inventive
19 concepts that represent significant improvements over conventional network security technology that
20 was available at the time of filing of the ‘731 Patent and are more than just generic software
21 components performing conventional activities.

22 27. On March 20, 2012, the USPTO issued to David Gruzman and Yuval Ben-Itzhak U.S.
23 Patent No. 8,141,154 (“the ‘154 Patent”), titled “SYSTEM AND METHOD FOR INSPECTING
24 DYNAMICALLY GENERATED EXECUTABLE CODE.” A true and correct copy of the ‘154
25 Patent is attached to this Complaint as Exhibit 7 and is incorporated by reference herein.

26 28. All rights, title, and interest in the ‘154 Patent have been assigned to Finjan, who is the
27 sole owner of the ‘154 Patent. Finjan has been the sole owner of the ‘154 Patent since its issuance.
28

1 29. The '154 Patent is generally directed towards methods and systems for providing an
2 efficient security system. One of the ways this is accomplished is by implementing a variety of caches
3 to increase performance of the system. The '154 Patent discloses and specifically claims inventive
4 concepts that represent significant improvements over conventional network security technology that
5 was available at the time of filing of the '154 Patent and are more than just generic software
6 components performing conventional activities.

7 30. The patents in paragraphs 9-29 are collectively referred to as the "Asserted Patents."

8 **FINJAN'S NOTICE OF INFRINGEMENT TO DEFENDANT**

9 31. Defendant is well aware of Finjan's patents, including the Asserted Patents, and has
10 continued its infringing activity, despite this knowledge, for years. Finjan gave written notice to
11 Defendant of its infringement of Finjan's patents by letter dated November 12, 2015, which
12 specifically identified Finjan's '844, '494, '305, '968, and '154 Patents. This letter also identified
13 many of Defendant's infringing products including how Defendant's Malware Detection Systems
14 (MDS), Web Application Firewall (WAF), Web Application Scanner (WAS), and Vulnerability (VM)
15 solutions including Qualys Cloud Platform products infringe various of Finjan's Asserted Patents. *See*
16 November 12, 2015 Letter from Finjan to Qualys, attached hereto as Exhibit 23.

17 32. Finjan also gave Defendant another letter on or about December 7, 2017, in which
18 Finjan described to Defendant how the Accused Products variously infringe Finjan's patents, including
19 at least Finjan's '844, '494, '305, and '968 Patents. *See* December 7, 2017 Letter from Finjan to
20 Qualys, attached hereto as Exhibit 24.

21 33. Thus, despite Finjan's best efforts to inform Defendant that its products infringe
22 Finjan's patents and to engage Defendant in good-faith licensing discussions, Defendant refused to
23 take a license to Finjan's patents. As shown above, Defendant knew that it infringed the Asserted
24 Patents well before Finjan filed this action, and Defendant acted egregiously and willfully in that it
25 continued to infringe Finjan's patents and, on information and belief, took no action to avoid
26 infringement. Instead, Defendant continued to develop additional technologies and products that
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1 infringe the Asserted Patents. As such, Defendant has continued to willfully, wantonly, and
2 deliberately engage in acts of infringement of the Asserted Patents.

3 **DEFENDANT’S INFRINGING PRODUCTS AND TECHNOLOGIES**

4 34. Defendant makes, uses, sells, offers for sale, and imports into the United States and this
5 District infringing products and services that utilize Vulnerability Management, Threat Protection,
6 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
7 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, the
8 “Accused Products”).

9 35. Qualys’ products are all interrelated through the Qualys Cloud Platform. The Qualys
10 Cloud Platform integrates Qualys’ detection and analytic technologies across various product
11 offerings, briefly described below.

12 **Vulnerability Management (VM)**

13 36. Qualys VM continuously scans and identifies vulnerabilities with high-precision
14 accuracy, protecting IT assets on premises, in the cloud, and at mobile endpoints. Its executive
15 dashboard displays an overview of security posture and access to remediation details. VM generates
16 custom, role-based reports for multiple stakeholders, including automatic security documentation for
17 compliance auditors. Additionally, Qualys VM offers vulnerability management for hybrid IT
18 environments.

19 37. In addition to scanners, VM also works with Qualys Cloud Agents, extending its
20 network coverage to assets that cannot be scanned. The lightweight, all-purpose, self-updating agents
21 reside on the assets they monitor so they do not require scan windows, credentials, or firewall changes,
22 and vulnerabilities can be found with minimal network impact. When VM is paired with Continuous
23 Monitoring (CM), InfoSec teams are proactively alerted about potential threats so problems can be
24 tackled before turning into breaches. Alerts can be tailored to notify about general or specific changes.

25 **Threat Protection**

26 38. Threat Protection continuously correlates external threat information against a
27 vulnerabilities and IT asset inventory, leveraging Qualys Cloud Platform’s back-end engine to
28

1 automate this large-scale and intensive data analysis process and alert which threats pose the greatest
2 risk at any given time. As Qualys engineers continuously validate and rate new threats from internal
3 and external sources, Threat Protections' Live Threat Intelligence Feed displays the latest vulnerability
4 disclosures and maps them to impacted IT assets.

5 39. A single, dynamic dashboard includes customizable views, graphs and charts to provide
6 a clear and comprehensive view of the threat landscape at a glance in real time. Multiple dashboard
7 views can be created to break down vulnerabilities by real-time threat indicator types, such as zero-day
8 exploits. Further, Threat Protection's search engine can sort, filter, drill down and fine-tune results for
9 specific assets and vulnerabilities by crafting ad hoc queries with multiple variables and criteria.
10 Queries can be saved and turned into dashboard widgets, which can display trend graphs for up to 90
11 days.

12 **Continuous Monitoring (CM)**

13 40. CM works in tandem with VM to discover hosts and digital certificates, organize assets
14 by business or technology function, and be alerted as soon as vulnerabilities appear on the global
15 perimeter from a single console. CM acts as a sentinel in the cloud, constantly monitoring the network
16 for changes that could put the network at risk. CM automates monitoring of the global perimeter,
17 tracking systems in the global network, wherever they are.

18 41. CM can identify and proactively address potential problems. Alerts can be tailored for
19 a wide variety of conditions impacting systems, certificates, ports, services and software. Each rule
20 can be configured to detect common, general changes or tuned to very specific circumstances.
21 Different recipients can be assigned for each alert, so that the appropriate person is notified. The
22 dashboard displays the network's big-picture status at a glance, giving a graphical representation of
23 recent activity to spot anomalies. Important alerts can be flagged and trivial ones can be hid. Specific
24 alerts and their corresponding details can be found using CM's search engine.

25 **Indicators of Compromise (IOC)**

26 42. Qualys IOC uses the Cloud Agent's non-intrusive data collection and delta processing
27 techniques to transparently capture endpoint activity information from assets on and off the network
28

1 that is more performant than query-based approaches or log collectors. Customers can use pre-defined
2 threat hunting rules and easily import indicators of compromise artifacts into widgets, dashboards, and
3 saved searches to quickly verify threat intelligence, scale of infections, first-infected asset (“Patient
4 Zero”), and timeline of compromises.

5 43. Threat hunting, suspicious activity detection, and OpenIOC processing are performed in
6 the Qualys Cloud Platform on billions of active and past system events, and coupled with threat
7 intelligence data from Qualys Malware Labs to identify malware infections (indicators of compromise)
8 and threat actor actions (indicators of activity).

9 44. Qualys IOC creates a Single View of the Asset, showing threat hunting details unified
10 with other Qualys Cloud Apps for hardware and software inventory, vulnerability posture, policy
11 compliance controls, and file integrity monitoring change alerts for on-premise servers, cloud
12 instances, and off-net remote endpoints. A single user interface significantly reduces the time required
13 for incident responders and security analysts to hunt, investigate, detect, and respond to threats before
14 breach or compromise can occur.

15 **Container Security (CS)**

16 45. Qualys Container Security gives complete visibility of container hosts wherever they
17 are in the global IT environment, on premises and in clouds. It gathers comprehensive topographic
18 information about container projects — images, image registries, and containers spun from the images.
19 The complete inventory and security posture from containers to hosts are viewable from dynamic,
20 customizable dashboards.

21 46. With Qualys CS, security teams can enforce policies to block the use of images that
22 have specific vulnerabilities, or that have vulnerabilities above a certain severity threshold.
23 Developers can do continuous vulnerability detection and remediation in the DevOps pipeline by
24 deploying plugins for CI/CD tools like Jenkins or Bamboo, or via REST APIs.

25 47. Qualys CS can search for images that have high-severity vulnerabilities, unapproved
26 packages, and older or test release tags. Their impact can be assessed by identifying all containers —
27 active or dormant — that use the unapproved, vulnerable images. Qualys CS helps determine if these
28

1 images are cached on different hosts, and identifies all the containers on exposed vulnerable network
2 ports running with privileges, which could lead to attacks.

3 48. Qualys CS scans, protects, and secures the running containers. Qualys CS also detects
4 containers drifting from the parent image, breaking the immutable behavior with a different
5 vulnerability posture and software configuration. Qualys CS also features policy-based orchestration
6 to stop containers vulnerable images from being spun up in Kubernetes clusters. Qualys CS can drill
7 down to the host level to identify vulnerabilities and patch compliance to understand how the host
8 impacts the containers.

9 **Web App Firewall (WAF)**

10 49. WAF can deploy virtual patches for confirmed vulnerabilities and can be managed from
11 a centralized portal. With no special hardware to buy nor maintain, Qualys WAF's virtual appliance
12 can be deployed and scaled up quickly on premises using VMware, Hyper-V or Docker, and in public
13 cloud platforms, such as AWS, Azure or Google Cloud Platform. WAF continuously communicates
14 with the Qualys Cloud Platform, tracking configuration changes and sending it the latest security
15 events.

16 50. WAF gives complete visibility into its data for continuous monitoring, risk assessments
17 and remediation plans. A dashboard summarizes website traffic information and security event trends
18 that include detailed threat information, suspicious activity, and actionable insights into the threat data.
19 WAF continuously indexes security events into local Elasticsearch or Splunk clusters, making data
20 instantly discoverable.

21 51. WAF protects web apps using security policies backed by Qualys' security intelligence,
22 and one-click responses to security events. Security needs can be addressed with simple, customizable
23 and reusable policies and rules. Qualys' out-of-the-box policies are designed for popular platforms
24 such as WordPress, Joomla, Drupal, Outlook Web Application and Sharepoint. It also includes generic
25 templates for unknown applications and frameworks.

Web App Scanning (WAS)

52. WAS finds and catalogs all web apps in the network, including new and unknown ones, and scales from a handful of apps to thousands. Qualys WAS tags applications with labels to control reporting and limit access to scan data. WAS' dynamic deep scanning covers all apps on the perimeter, in the internal environment and under active development, and even APIs that support mobile devices. It also covers public cloud instances, and gives instant visibility of vulnerabilities like SQLi and XSS. With programmatic scanning of SOAP and REST API services, WAS tests IoT services and APIs used by mobile apps and modern mobile architectures.

53. WAS can insert security into application development and deployment in DevSecOps environments. WAS detects code security issues early and often, tests for quality assurance and generates comprehensive reports. With its tight Qualys WAF integration, WAS continuously monitors and virtually patches production apps. WAS scans an organization's websites, and identifies and reports infections, including zero-day threats via behavioral analysis. Detailed malware infection reports accompany infected code for remediation. A central dashboard displays scan activity, infected pages and malware infection trends, and lets users initiate actions directly from its interface. Malware detection functionality is provided via an optional add-on.

Compliance Monitoring

54. Qualys' Compliance Monitoring Solutions include Policy Compliance, Security Assessment Questionnaire, and PCI. Compliance Monitoring ensures that the organization must enforce internal policies, comply with external regulatory mandates, and assess the risk of doing business with vendors and other third parties. Compliance Monitoring uses a cloud-based solution to automate assessment of security and compliance controls in order to demonstrate a repeatable and trackable process to auditors and stakeholders.

DEFENDANT'S WILLFUL INFRINGEMENT OF FINJAN'S PATENTS

55. Defendant has infringed the '844, '494, '305, '408, '968, '731, and '154 Patents (collectively, the "Asserted Patents") and continues to infringe the '305, '408, '968, '731 and '154

1 Patents in this Judicial District and elsewhere in the United States by, among other things, making,
2 using, importing, selling, and offering for sale the Accused Products.

3 56. In addition to directly infringing the Asserted Patents under 35 U.S.C. § 271(a),
4 Defendant indirectly infringed the ‘844, ‘494, ‘305, ‘408, ‘968 and ‘731 Patents and continues to
5 indirectly infringe the ‘305, ‘408, ‘968 and ‘731 Patents by instructing, directing, and requiring others,
6 including its customers, purchasers, users, and developers, to perform all or some of the steps of the
7 method claims, either literally or under the doctrine of equivalents.

8 **COUNT I**

9 **(Direct Infringement of the ‘844 Patent pursuant to 35 U.S.C. § 271(a))**

10 57. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
11 allegations of the preceding paragraphs, as set forth above.

12 58. Defendant infringed Claims 1-44 of the ‘844 Patent in violation of 35 U.S.C. § 271(a).

13 59. Defendant’s infringement is based upon literal infringement or, in the alternative,
14 infringement under the doctrine of equivalents.

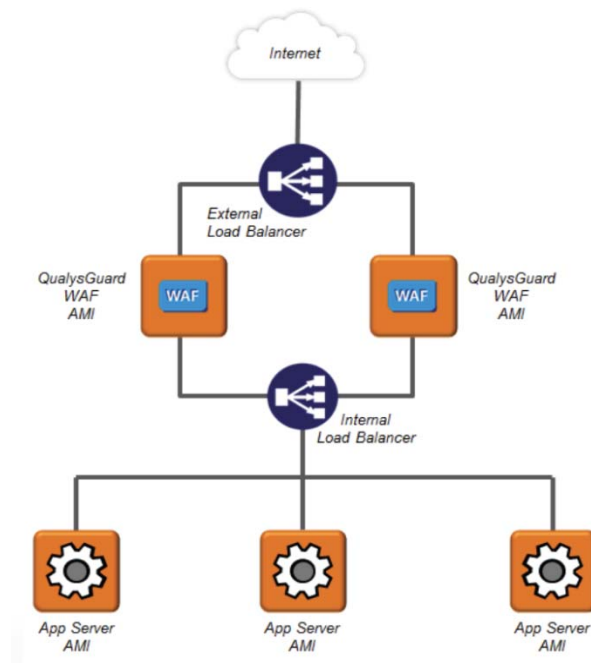
15 60. Defendant’s acts of making, using, importing, selling, and offering for sale infringing
16 products and services were without the permission, consent, authorization, or license of Finjan.

17 61. Defendant’s infringement included the manufacture, use, sale, importation and offer for
18 sale of Defendant’s products and services that utilize Vulnerability Management, Threat Protection,
19 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
20 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, “the
21 ‘844 Accused Products”).

22 62. The ‘844 Accused Products practiced the patented invention of the ‘844 Patent and
23 infringed the ‘844 Patent because they made or used the system and performed the steps of receiving a
24 downloadable by an inspector, generating, by the inspector, a downloadable security profile that
25 identifies suspicious code in the received downloadable, and linking, by the inspector, the
26 downloadable security profile to the downloadable before a web server makes the downloadable
27 available to web clients.
28

63. To the extent the '844 Accused Products used a system that includes modules, components or software owned by third parties, the '844 Accused Products still infringed the '844 Patent because Defendant is vicariously liable for the use of the patented system by controlling the entire system and deriving a benefit from the use of every element of the entire system. Similarly, to the extent Defendant's customers performed a step or steps of the patented method or the '844 Accused Products incorporated third parties' modules, components or software that performed one or more patented steps, Defendant's '844 Accused Products still infringed the '844 Patent because the '844 Accused Products condition receipt by the third parties of a benefit upon performance of a step or steps of the patented method and establish the manner or timing of that performance.

64. The '844 Accused Products include an inspector that receives Downloadables for scanning.



QualysGuard Web Application Security presentation at 30, attached hereto as Exhibit 8.

- Scheduled scans and network discoveries
- Automated daily updates to vulnerability KnowledgeBase
- Automated remediation ticket generation and verification



<https://www.dts-solution.com/solutions/compliance-monitoring/vulnerability-management/>, attached hereto as Exhibit 9.

65. Network mapping is an essential step in discovering vulnerabilities and consists of enumeration of all IP addresses in registered networks in an attempt to find live hosts. Network mapping is implemented using QualysGuard Vulnerability Management Scans – Maps:

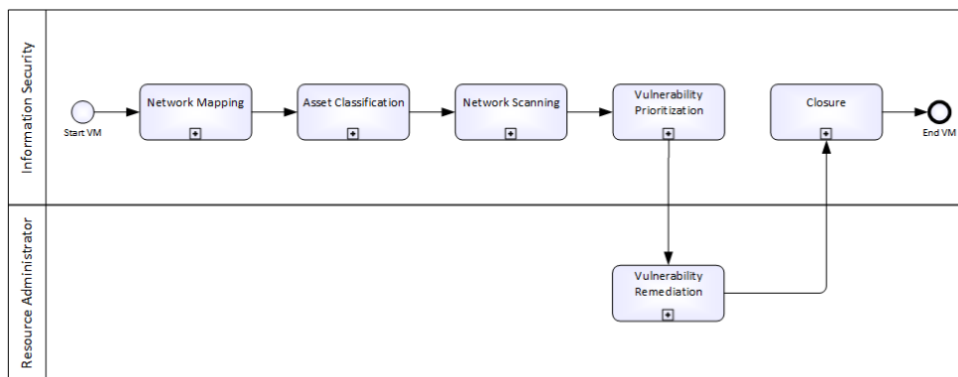


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

66. The '844 Accused Products generate a first Downloadable security profile that identifies suspicious code in the received Downloadable (such as SQL injection, cross-site scripting (XSS), XML External Entities (XXE) and site misconfigurations):

Web Application Scanning

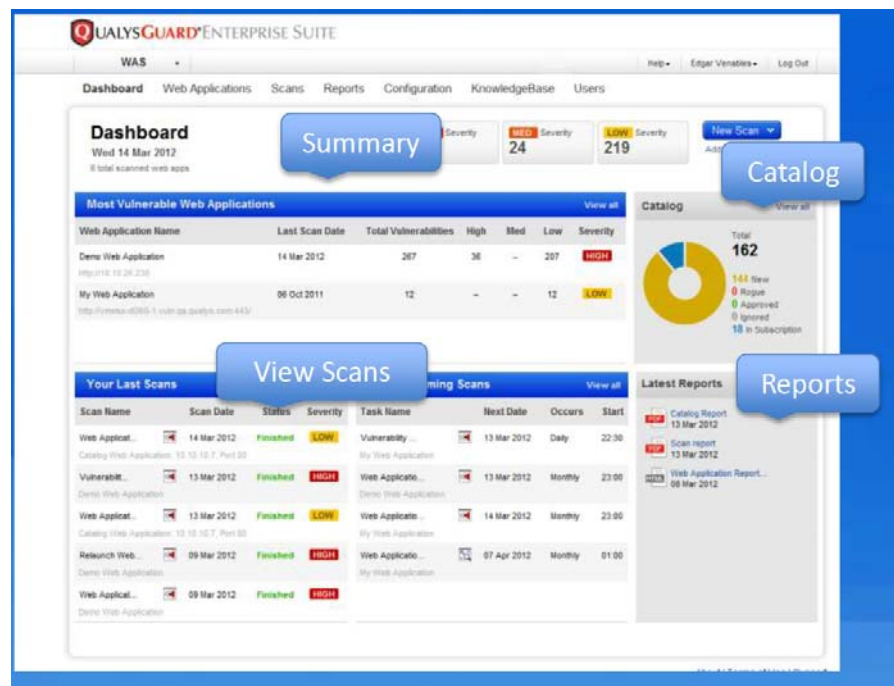
Qualys WAS accurately discovers, catalogs, and scans large numbers of web applications. WAS identifies web application vulnerabilities in the OWASP Top 10 like SQL injection, cross-site scripting (XSS), XML External Entities (XXE), and site misconfigurations. With Selenium scripts created by [Qualys Browser Recorder](#), WAS can effectively navigate through applications even when complex authentication and/or business workflows are present.

Key Features

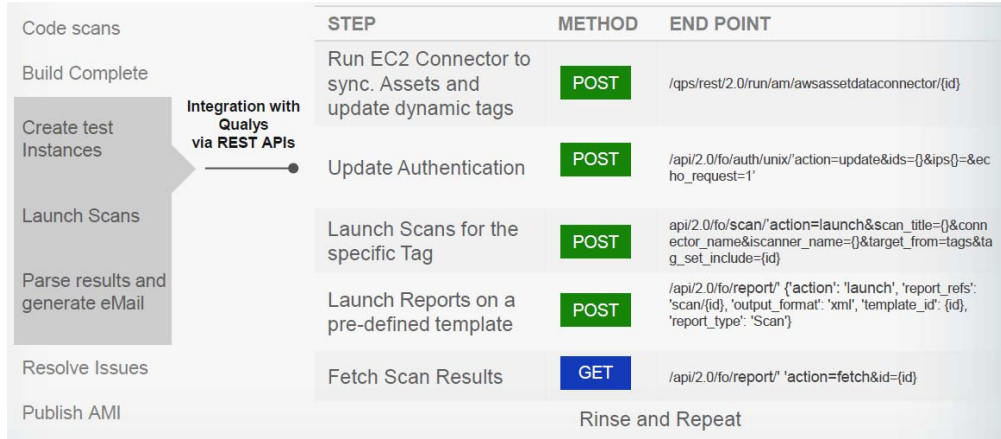
- [REST API testing](#) and [Swagger support](#)
- [Retest functionality](#)
- [Single Sign-On \(SSO\)](#)
- [DOM XSS Detection](#)
- [Redundant link checks](#)
- [API for automation & integration](#)
- [High-volume scanning](#) (multi-scan feature)
- [Role-based access control \(RBAC\)](#)

<https://community.qualys.com/community/web-application-scanning>, attached hereto as Exhibit 11.

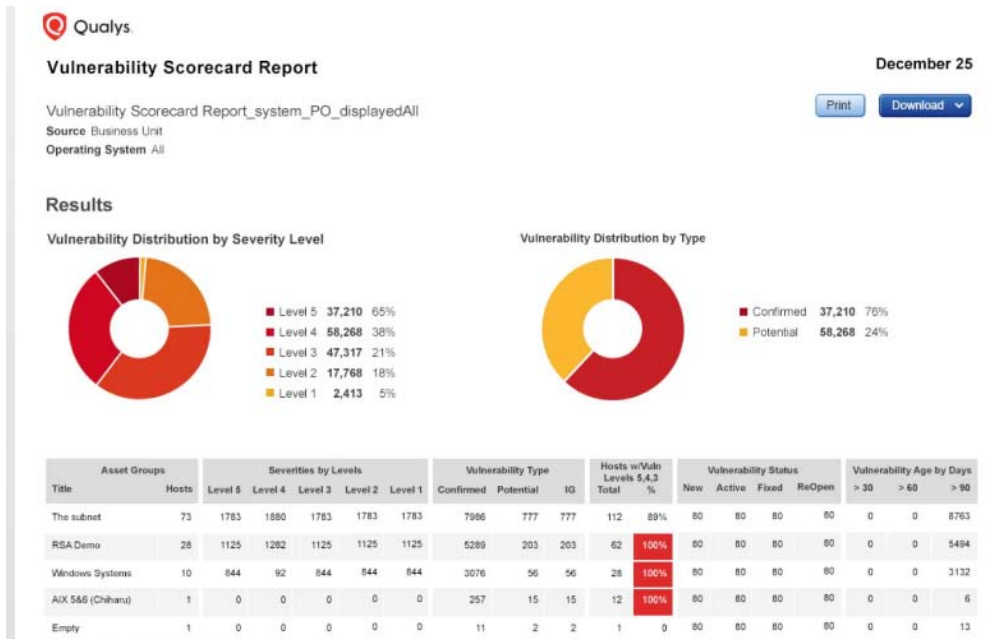
67. The '844 Accused Products catalog new threats and suspicious code in Downloadables:



QualysGuard InfoDay 2014 presentation at 29, attached hereto as Exhibit 12.



Securing Public Cloud Infrastructure using Qualys presentation at 31, attached hereto as Exhibit 13.



<https://www.qualys.com/apps/vulnerability-management/>, attached hereto as Exhibit 14.

68. The '844 Accused Products link the Downloadable security profile to the Downloadable for vulnerability protection and remediation before the web server makes the Downloadable available to web clients.

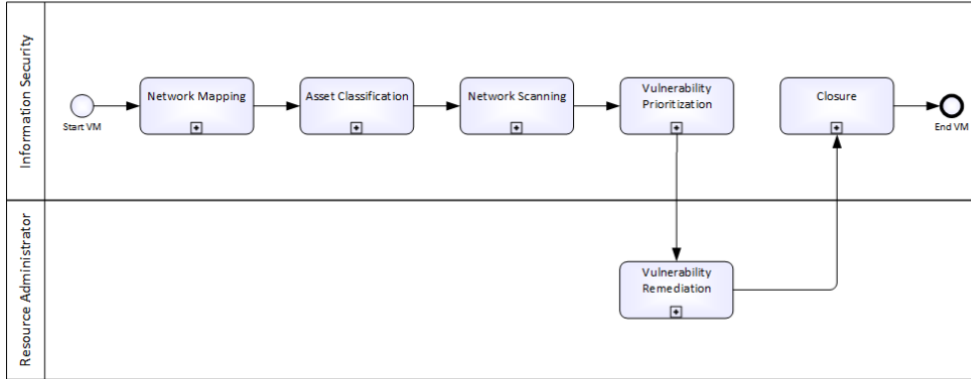


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes

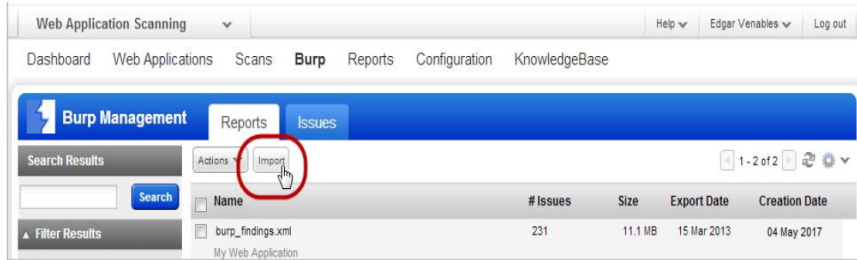
Status	Name	Last Detected	Age	Severity
New	Charset submission of password	15 May 2013	19	INFO
New	Password field vbl autocomplete enabled	15 May 2013	19	LOW
New	Cookies without httpOnly flag set	15 May 2013	19	LOW
New	Frameable response (potential Clickjacking)	15 May 2013	19	INFO
New	HTML does not specify charset	15 May 2013	19	INFO

QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.

69. The '844 Accused Products link Downloadable security profiles to Downloadables so that a user may have the findings for a particular downloadable stored for future reference so that when the downloadable is received again, a web server may block or allow it before it is made available to web clients:

The Burp Management feature gives you a way to store the findings discovered by the Burp Suite scanner with those discovered by WAS and share this information with multiple users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not available to Express Lite users.)

To get started click the Burp option on the top menu and go to Burp > Reports, then click Import and we'll walk you through the steps. Your issues list shows imported Burp issues.



Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 20, attached hereto as Exhibit 15.

70. The ‘844 Accused Products link Downloadable security profiles including “risk levels” with each discovered vulnerability in the Downloadables.

Each discovered vulnerability has a risk level associated with it. These risk levels are calculated using a combination of Criticality of an asset (1 through 5, see table 1) and a severity assigned by QualysGuard (1 through 5, according to Qualys Severity Levels). See the table below for detailed information about the risks associated with vulnerabilities:

	Vulnerability Severity 1	Vulnerability Severity 2	Vulnerability Severity 3	Vulnerability Severity 4	Vulnerability Severity 5
Asset Criticality 1	Slight	Slight	Slight	Low	Medium
Asset Criticality 2	Slight	Slight	Low	Medium	Medium
Asset Criticality 3	Slight	Low	Low	Medium	High
Asset Criticality 4	Slight	Low	Medium	High	High
Asset Criticality 5	Low	Medium	High	High	High

Table 2: Calculation of the risk for confirmed vulnerabilities

Our Information Security standards set the following remediation targets:

No.	Risk Level	Risk Rating	Remediation Target
1	High Risk vulnerabilities	25 – 100	30 days
2	Medium Risk vulnerabilities	10 – 25	60 days
3	Low Risk vulnerabilities	5 – 10	90 days
4	Slight Risk vulnerabilities	1 – 5	120 days

Table 3: Remediation targets

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

1 71. Defendant's infringement of the '844 Patent injured Finjan in an amount to be proven at
2 trial, but not less than a reasonable royalty.

3 72. Defendant has been long-aware of Finjan's patents, including the '844 Patent, and
4 continued its unauthorized infringing activity despite this knowledge. As discussed above, Finjan
5 actively and diligently attempted to engage in good faith negotiations with Defendant for nearly three
6 years regarding Defendant's infringement of Finjan's Asserted Patents. Even after being shown that
7 its products infringe Finjan's patents, including the '844 Patent, on information and belief Defendant
8 made no effort to avoid infringement. Instead, Defendant continued to incorporate its infringing
9 technology into additional products, such as those identified in this complaint. All of these actions
10 demonstrate Defendant's blatant and egregious disregard for Finjan's patent rights.

11 73. Despite its knowledge of Finjan's patent portfolio and Asserted Patents, and its specific
12 knowledge of its own infringement, Defendant continued to sell the '844 Accused Products in
13 complete and reckless disregard of Finjan's patent rights. As such, Defendant acted recklessly,
14 willfully, wantonly, and deliberately engaged in acts of infringement of the '844 Patent, justifying an
15 award to Finjan of increased damages under 35 U.S.C. § 284, and attorneys' fees and costs incurred
16 under 35 U.S.C. § 285.

17 **COUNT II**

18 **(Indirect Infringement of the '844 Patent pursuant to 35 U.S.C. § 271(b))**

19 74. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
20 allegations of the preceding paragraphs, as set forth above.

21 75. In addition to directly infringing the '844 Patent, Defendant knew or was willfully blind
22 to the fact that it was inducing infringement of at least Claims 1-14 and 22-31 of the '844 Patent under
23 35 U.S.C. § 271(b) by instructing, directing and requiring its customers to perform the steps of the
24 method claims of the '844 Patent, either literally or under the doctrine of equivalents.

25 76. Defendant knowingly and actively aided and abetted the direct infringement of the '844
26 Patent by instructing and encouraging its customers and developers to use the '844 Accused Products.
27 Such instructions and encouragement included advising third parties to use the '844 Accused Products
28

1 in an infringing manner, providing a mechanism through which third parties may infringe the ‘844
2 Patent, by advertising and promoting the use of the ‘844 Accused Products in an infringing manner,
3 and by distributing guidelines and instructions to third parties on how to use the ‘844 Accused
4 Products in an infringing manner. *See, e.g.*, QualysGuard Web Application Security presentation,
5 attached hereto as Exhibit 8; [https://www.dts-solution.com/solutions/compliance-
6 monitoring/vulnerability-management/](https://www.dts-solution.com/solutions/compliance-monitoring/vulnerability-management/), attached hereto as Exhibit 9;
7 <https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit
8 10; <https://community.qualys.com/community/web-application-scanning>, attached hereto as Exhibit
9 11; QualysGuard InfoDay 2014 presentation, attached hereto as Exhibit 12; Securing Public Cloud
10 Infrastructure using Qualys presentation, attached hereto as Exhibit 13;
11 <https://www.qualys.com/apps/vulnerability-management/>, attached hereto as Exhibit 14; Qualys Web
12 Application Scanning Getting Started Guide Version 6.0.1, attached hereto as Exhibit 15.

COUNT III

(Direct Infringement of the ‘494 Patent pursuant to 35 U.S.C. § 271(a))

13
14
15 77. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
16 allegations of the preceding paragraphs, as set forth above.

17 78. Defendant infringed Claims 3-5 and 7-18 of the ‘494 Patent in violation of 35 U.S.C.
18 § 271(a).

19 79. Defendant’s infringement is based upon literal infringement or, in the alternative,
20 infringement under the doctrine of equivalents.

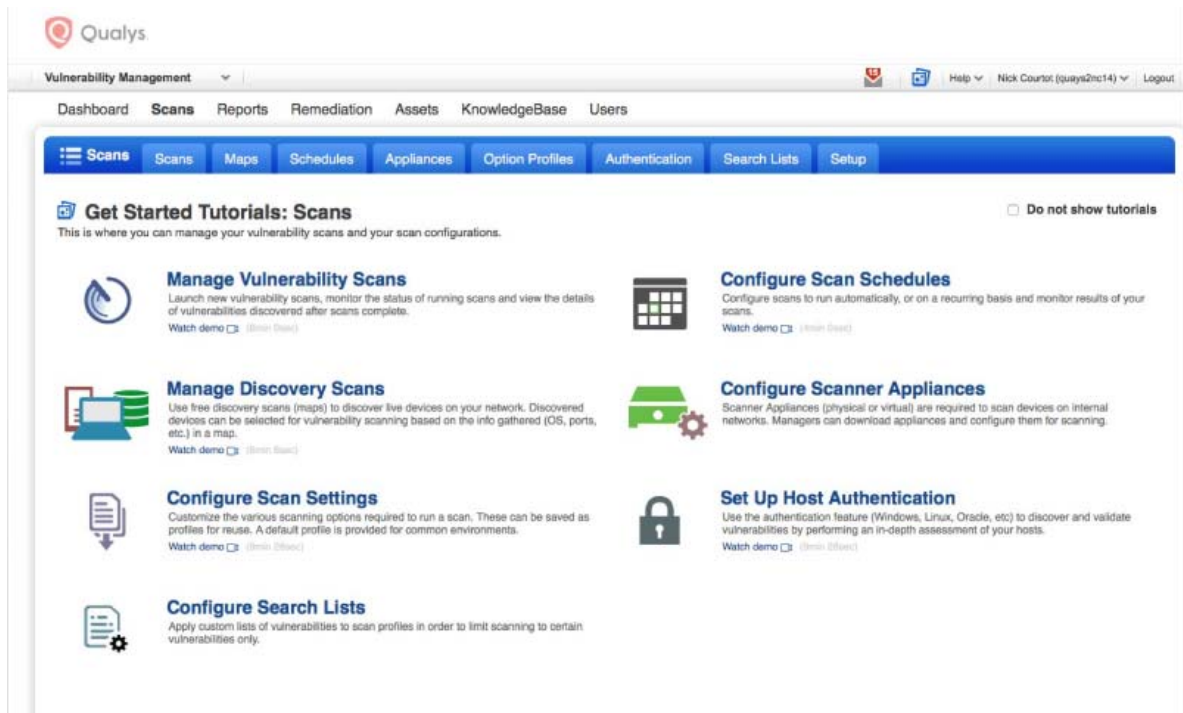
21 80. Defendant’s acts of making, using, importing, selling, and offering for sale infringing
22 products and services were without the permission, consent, authorization, or license of Finjan.

23 81. Defendant’s infringement included the manufacture, use, sale, importation and offer for
24 sale of Defendant’s products and services that utilize Vulnerability Management, Threat Protection,
25 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
26 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, “the
27 ‘494 Accused Products”).
28

1 82. The ‘494 Accused Products practiced the patented invention of the ‘494 Patent and
2 infringed the ‘494 Patent because they make or use the system and perform the steps of deriving
3 security profiles and storing the security profiles by, for example, deriving a security profile for a
4 downloadable, which includes a list of suspicious computer operations, and storing the security profile
5 in a database.

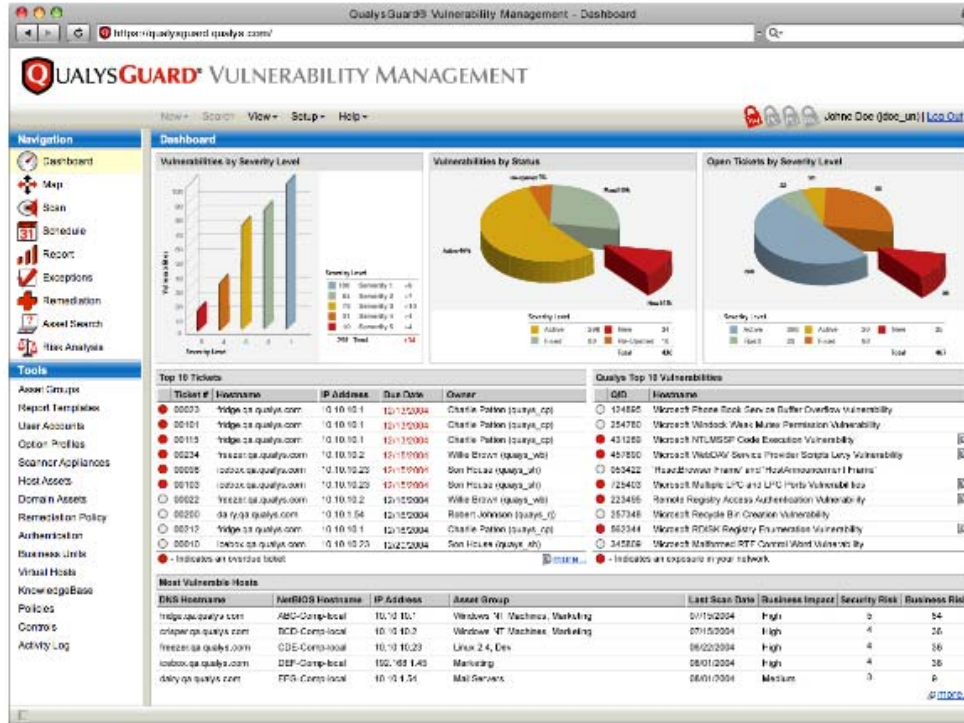
6 83. To the extent the ‘494 Accused Products used a system that includes modules,
7 components or software owned by third parties, the ‘494 Accused Products still infringed the ‘494
8 Patent because Defendant is vicariously liable for the use of the patented system by controlling the
9 entire system and deriving a benefit from the use of every element of the entire system. Similarly, to
10 the extent Defendant’s customers performed a step or steps of the patented method or the ‘494
11 Accused Products incorporated third parties’ modules, components or software that perform one or
12 more patented steps, Defendant’s ‘494 Accused Products still infringed the ‘494 Patent because the
13 ‘494 Accused Products condition receipt by the third parties of a benefit upon performance of a step or
14 steps of the patented method and establish the manner or timing of that performance.

15 84. The ‘494 Accused Products are systems for managing Downloadables by performing
16 vulnerability scans and creating vulnerability management reports using Virtual management (VM),
17 Qualys Threat Protection, Web Application Filter (WAF) and Web Application Scanner (WAS):
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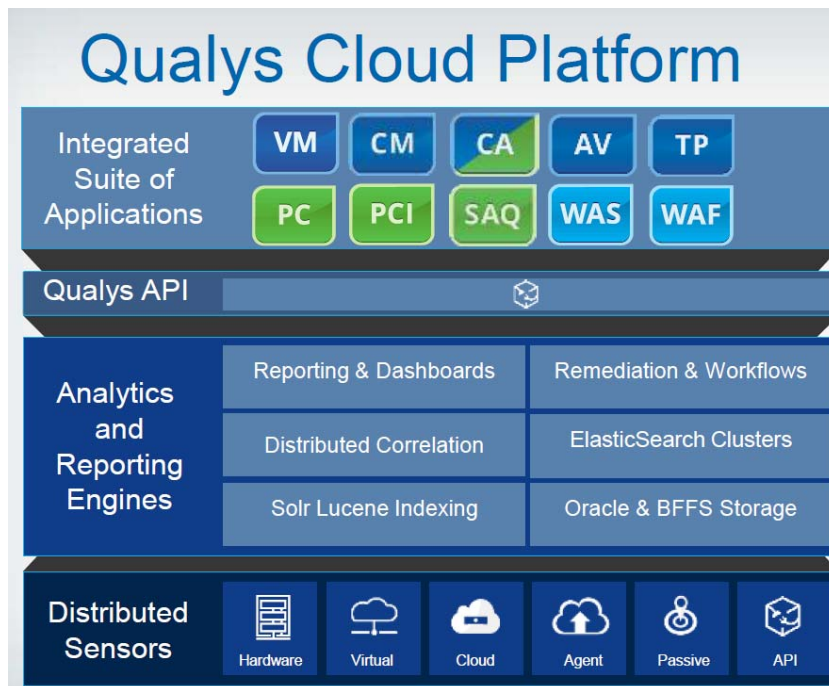


Qualys' ability to track vulnerability data across hosts and time lets you use reports interactively to better understand the security of your network. Use a library of built-in reports, change what's shown or choose different sets of assets — all without having to rescan. Reports can be generated on demand or scheduled automatically and then shared with the appropriate recipients online, in PDF or CSV.

<https://www.qualys.com/apps/vulnerability-management/>, attached hereto as Exhibit 14.



<https://www.dts-solution.com/solutions/compliance-monitoring/vulnerability-management/>, attached hereto as Exhibit 9.



Securing Public Cloud Infrastructure using Qualys presentation at 12, attached hereto as Exhibit 13.

85. The '494 Accused Products include a receiver for receiving an incoming Downloadable for continuous asset discovery:

- Scheduled scans and network discoveries
- Automated daily updates to vulnerability KnowledgeBase
- Automated remediation ticket generation and verification



<https://www.dts-solution.com/solutions/compliance-monitoring/vulnerability-management/>, attached hereto as Exhibit 9.

86. Network mapping is an essential step in discovering vulnerabilities and consists of enumeration of all IP addresses in registered networks in an attempt to find live hosts. Network mapping is implemented using QualysGuard Vulnerability Management Scans – Maps which receive incoming Downloadables.

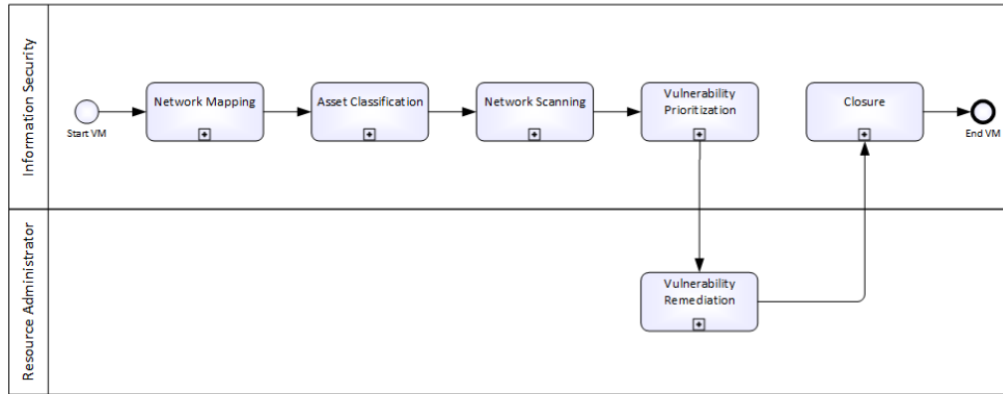


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

87. The ‘494 Accused Products include a Downloadable scanner coupled with the receiver, for deriving security profile data for the Downloadable, including a list of suspicious computer operations that may be attempted by the Downloadable.

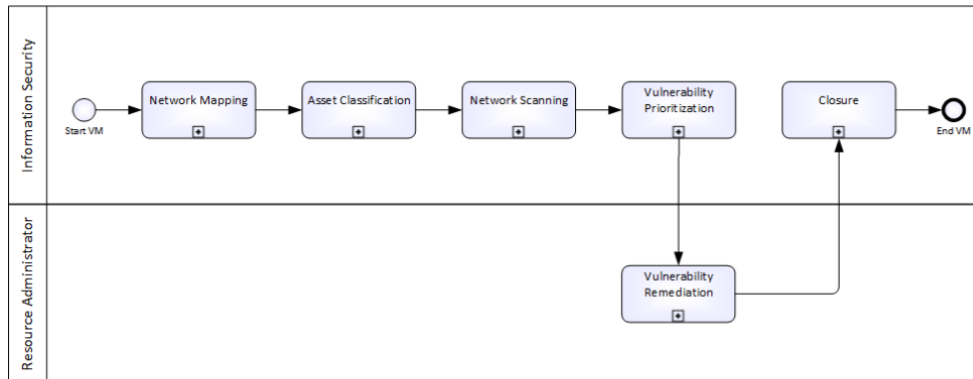
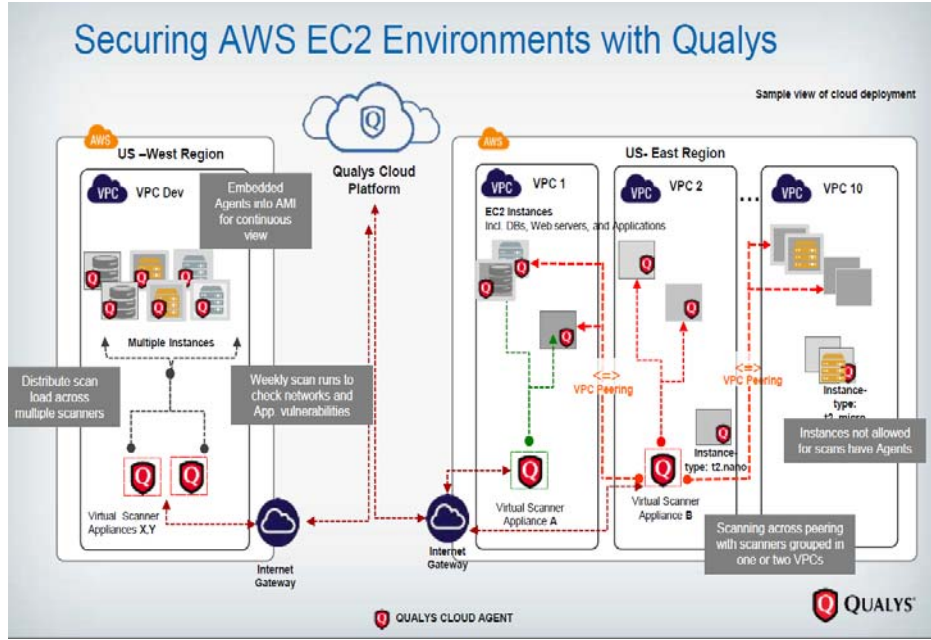


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

- ✓ Qualys AssetView to get visibility from the rich data collection from EC2 Connector, sensors – Scanner Appliances and Cloud Agents
- ✓ Maintaining the same processes and practices by utilizing Qualys across On Premise, Cloud, incorporating Cloud Aware features to handle ephemeral/elastic cloud workloads
- ✓ Edge servers scanned via Qualys Perimeter Internet Scanners



Securing Public Cloud Infrastructure using Qualys presentation at 29, attached hereto as Exhibit 13.

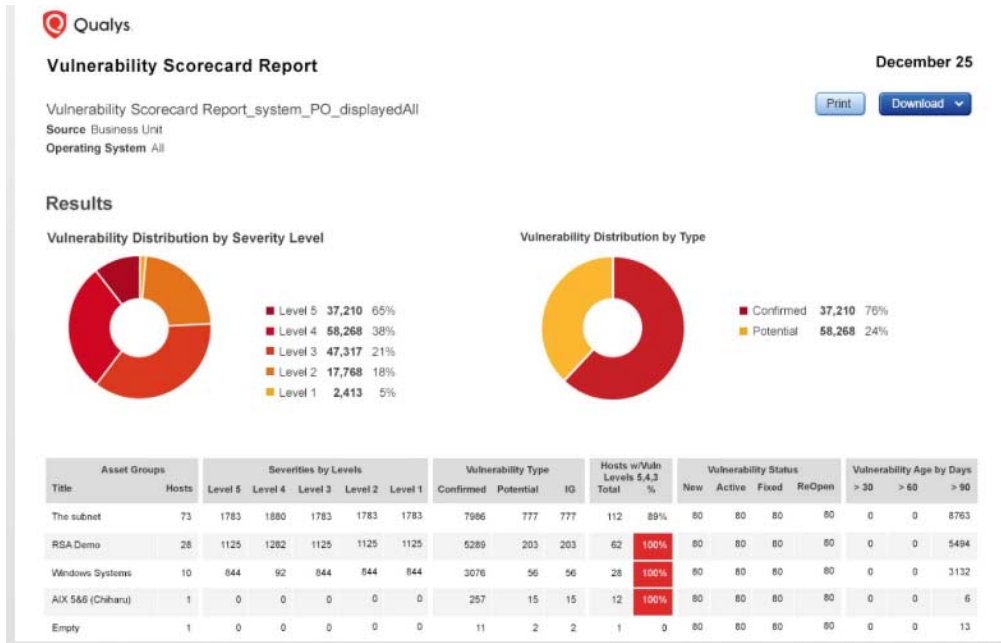
The screenshot shows the Qualys vulnerability assessment interface. The main window displays a list of vulnerabilities for a VM named 'Q5-SIM-w12-EUI'. The 'Remediate vulnerabilities (by Qualys)' window is open, showing a table of vulnerabilities. The 'Enabled DCOM' vulnerability is highlighted, and its details are shown in a side panel.

VULNERABILITY NAME	VENDOR	AFFECTS	STATE	SEVERITY
Enabled DCOM	Qualys	Q5-SIM-w12...	Open	High
Allowed Mail Session	Qualys	Q5-SIM-w12...	Open	Medium
Enabled Cached Logon Cred...	Qualys	Q5-SIM-w12...	Open	Medium
Machine Information Disclo...	Qualys	Q5-SIM-w12...	Open	Medium
Microsoft Windows Explere...	Qualys	Q5-SIM-w12...	Open	Medium
Windows Explorer Autoplay...	Qualys	Q5-SIM-w12...	Open	Medium
Access to File Share is Enab...	Qualys	Q5-SIM-w12...	Open	Low
ActiveX Controls Enumerated	Qualys	Q5-SIM-w12...	Open	Low
Administrator Group Memb...	Qualys	Q5-SIM-w12...	Open	Low
Antivirus Product Not Detec...	Qualys	Q5-SIM-w12...	Open	Low
Disabled Clear Page File	Qualys	Q5-SIM-w12...	Open	Low
Enabled Caching of Dial-up...	Qualys	Q5-SIM-w12...	Open	Low
Enabled Display Last Userna...	Qualys	Q5-SIM-w12...	Open	Low
File Access Permissions for ...	Qualys	Q5-SIM-w12...	Open	Low
File Access Permissions for ...	Qualys	Q5-SIM-w12...	Open	Low
Host Scan Time	Qualys	Q5-SIM-w12...	Open	Low
Hyper-V Host Information G...	Qualys	Q5-SIM-w12...	Open	Low

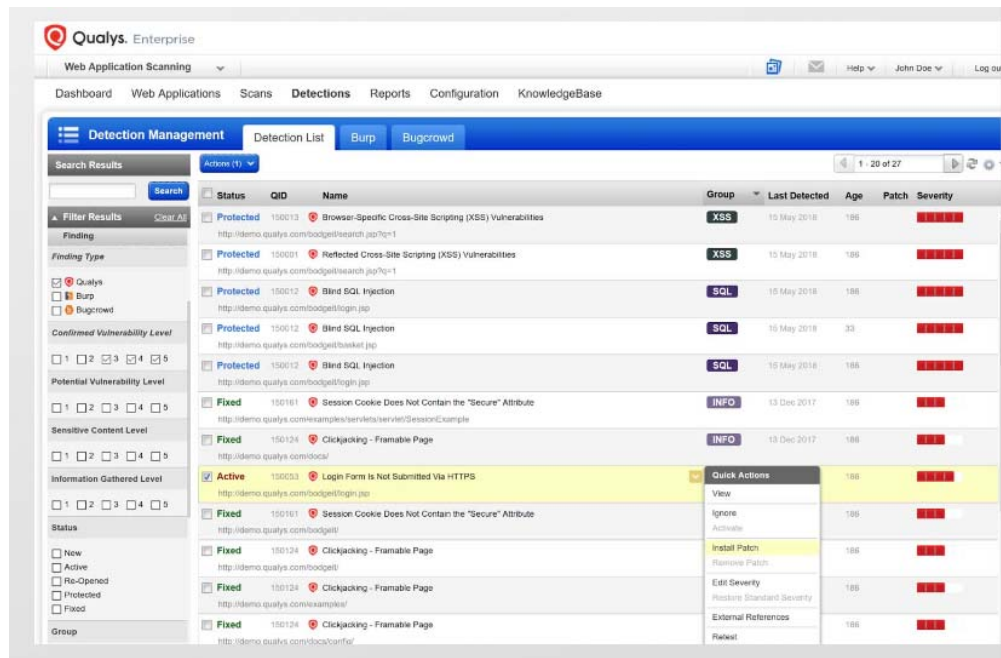
Remediate vulnerabilities (by Qualys) - Enabled DCOM

VULNERABILITY NAME: Enabled DCOM
VULNERABILITY ID: 90042
SEVERITY: High
DESCRIPTION: The Distributed Component Object Model (DCOM) is a protocol that enables software components to communicate directly over a network. The Distributed Component Object Model (DCOM) is enabled on this system.
SOLUTION: Refer to Microsoft article Best Practices for Mitigating RPC and DCOM Vulnerabilities to obtain information on vulnerabilities in DCOM and ways to mitigate those vulnerabilities. Information on disabling DCOM can be found at the Microsoft Technet article called How to Disable DCOM Support in Windows. For disabling DCOM on Windows 7, Windows 8, and Windows Server 2008, Windows Server 2008 R2, and Windows Server 2012 refer to Microsoft's article Enable or Disable DCOM.
Affected VMs:

Securing Public Cloud Infrastructure using Qualys presentation at 37, attached hereto as Exhibit 13.



<https://www.qualys.com/apps/vulnerability-management/>, attached hereto as Exhibit 14.



<https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16.

88. The '494 Accused Products include a database manager coupled with the Downloadable scanner, for storing the Downloadable security profile data in a database.

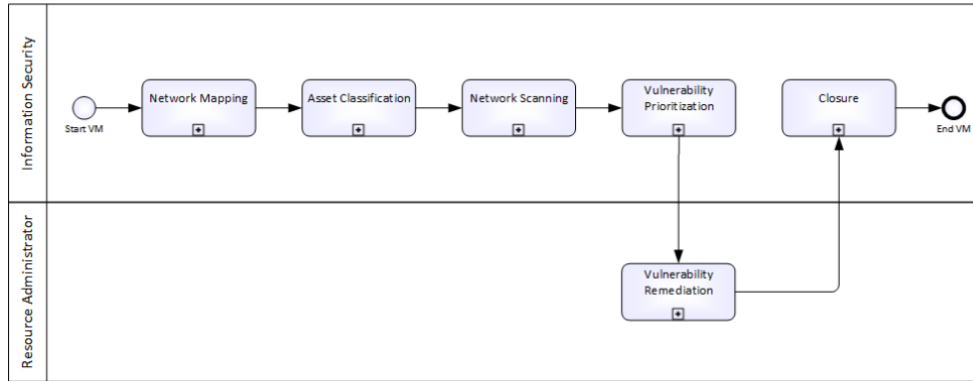
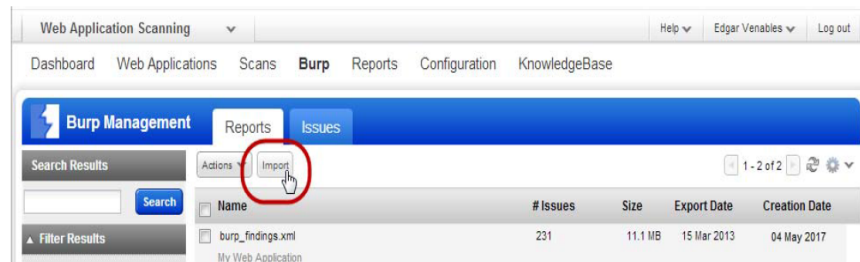


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

The Burp Management feature gives you a way to store the findings discovered by the Burp Suite scanner with those discovered by WAS and share this information with multiple users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not available to Express Lite users.)

To get started click the Burp option on the top menu and go to Burp > Reports, then click Import and we'll walk you through the steps. Your issues list shows imported Burp issues.

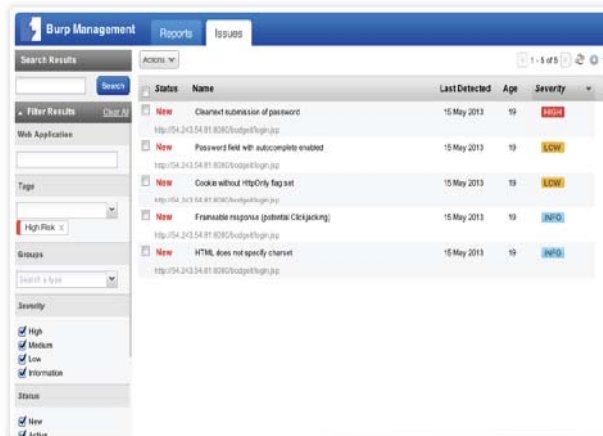


Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 20, attached hereto as Exhibit 15.

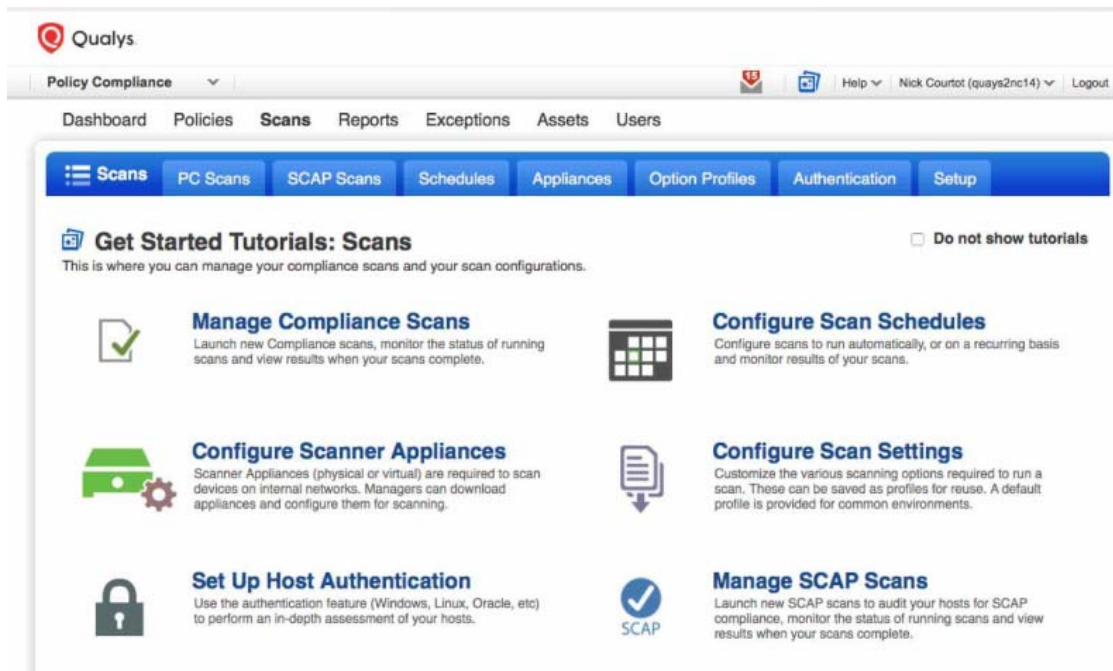
89. The '494 Accused Products store security profiles in a policy index (high/low risk) data including entries that relate cache content and policies:

Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes



QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.



<https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

90. Defendant’s infringement of the ‘494 Patent injured Finjan in an amount to be proven at trial, but not less than a reasonable royalty.

91. Defendant has been long-aware of Finjan’s patents, including the ‘494 Patent, and continued its unauthorized infringing activity despite this knowledge. As discussed above, Finjan actively and diligently attempted to engage in good faith negotiations with Defendant for nearly three

1 years regarding Defendant's infringement of Finjan's Asserted Patents. Even after being shown that
2 its products infringe Finjan's patents, including the '494 Patent, on information and belief Defendant
3 made no effort to avoid infringement. Instead, Defendant continued to incorporate its infringing
4 technology into additional products, such as those identified in this complaint. All of these actions
5 demonstrate Defendant's blatant and egregious disregard for Finjan's patent rights.

6 92. Despite its knowledge of Finjan's patent portfolio and Asserted Patents, and its specific
7 knowledge of its own infringement, Defendant continued to sell the '494 Accused Products in
8 complete and reckless disregard of Finjan's patent rights. As such, Defendant acted recklessly,
9 willfully, wantonly, and deliberately engaged in acts of infringement of the '494 Patent, justifying an
10 award to Finjan of increased damages under 35 U.S.C. § 284, and attorneys' fees and costs incurred
11 under 35 U.S.C. § 285.

12 **COUNT IV**

13 **(Indirect Infringement of the '494 Patent pursuant to 35 U.S.C. § 271(b))**

14 93. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
15 allegations of the preceding paragraphs, as set forth above.

16 94. In addition to directly infringing the '494 Patent, Defendant knew or was willfully blind
17 to the fact that it was inducing infringement of at least Claims 3-5 and 7-9 of the '494 Patent under 35
18 U.S.C. § 271(b) by instructing, directing and requiring its customers to perform the steps of the method
19 claims of the '494 Patent, either literally or under the doctrine of equivalents.

20 95. Additionally, Defendant knew or was willfully blind to the fact that it was inducing
21 infringement of at least Claims 3-5 and 7-9 of the '494 Patent under 35 U.S.C. § 271(b) by instructing,
22 directing and requiring its customers to perform the steps of the method claims of the '494 Patent,
23 either literally or under the doctrine of equivalents.

24 96. Defendant knowingly and actively aided and abetted the direct infringement of the '494
25 Patent by instructing and encouraging its customers and developers to use the '494 Accused Products.
26 Such instructions and encouragement included advising third parties to use the '494 Accused Products
27 in an infringing manner, providing a mechanism through which third parties may infringe the '494
28

1 Patent, by advertising and promoting the use of the ‘494 Accused Products in an infringing manner,
2 and by distributing guidelines and instructions to third parties on how to use the ‘494 Accused
3 Products in an infringing manner. *See, e.g.*, QualysGuard Web Application Security presentation,
4 attached hereto as Exhibit 8; [https://www.dts-solution.com/solutions/compliance-
5 monitoring/vulnerability-management/](https://www.dts-solution.com/solutions/compliance-monitoring/vulnerability-management/), attached hereto as Exhibit 9.;
6 <https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit
7 10; Securing Public Cloud Infrastructure using Qualys presentation, attached hereto as Exhibit 13;
8 <https://www.qualys.com/apps/vulnerability-management/>, attached hereto as Exhibit 14;
9 <https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16;
10 <https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

11 **COUNT V**

12 **(Direct Infringement of the ‘305 Patent pursuant to 35 U.S.C. § 271(a))**

13 97. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
14 allegations of the preceding paragraphs, as set forth above.

15 98. Defendant has infringed and continues to infringe Claims 3-4, 6-12, and 14-25 of the
16 ‘305 Patent in violation of 35 U.S.C. § 271(a).

17 99. Defendant’s infringement is based upon literal infringement or, in the alternative,
18 infringement under the doctrine of equivalents.

19 100. Defendant’s acts of making, using, importing, selling, and offering for sale infringing
20 products and services has been without the permission, consent, authorization or license of Finjan.

21 101. Defendant’s infringement includes the manufacture, use, sale, importation and offer for
22 sale of Defendant’s products and services that utilize Vulnerability Management, Threat Protection,
23 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
24 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, “the
25 ‘305 Accused Products”).

26 102. The ‘305 Accused Products embody the patented invention of the ‘305 Patent and
27 infringe the ‘305 Patent because they make or use the patented system or perform the patented method
28

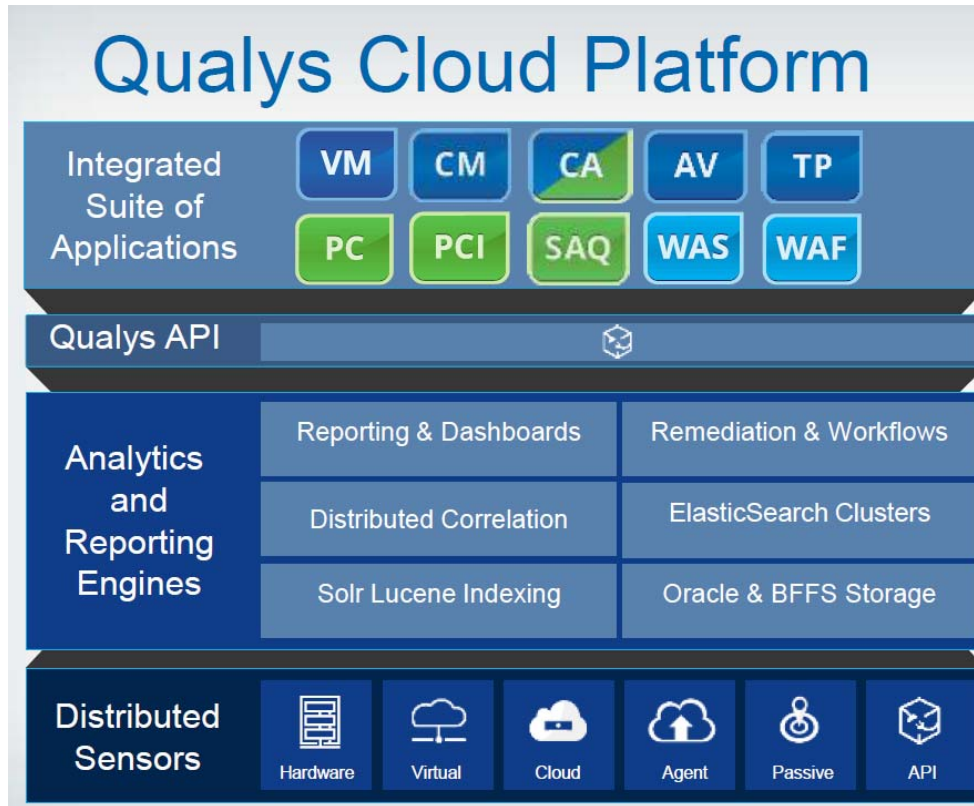
1 of rule-based scanning of web-based content for exploits by, for example, using parser and analyzer
 2 rules to describe computer exploits as patterns of types of tokens.

3 103. To the extent the ‘305 Accused Products use a system that includes modules,
 4 components or software owned by third parties, the ‘305 Accused Products still infringe the ‘305
 5 Patent because Defendant is vicariously liable for the use of the patented system by controlling the
 6 entire system and deriving a benefit from the use of every element of the entire system. Similarly, to
 7 the extent Defendant’s customers perform a step or steps of the patented method or the ‘305 Accused
 8 Products incorporate third parties’ modules, components or software that perform one or more patented
 9 steps, Defendant’s ‘305 Accused Products still infringe the ‘305 Patent because the ‘305 Accused
 10 Products condition receipt by the third parties of a benefit upon performance of a step or steps of the
 11 patented method and establish the manner or timing of that performance.

12 104. The ‘305 Accused Products are security systems for scanning content within a computer
 13 including Web Application Filter (WAF) and Web Application Scanner (WAS):



26 Qualys Cloud Platform datasheet at 2, attached hereto as Exhibit 22.

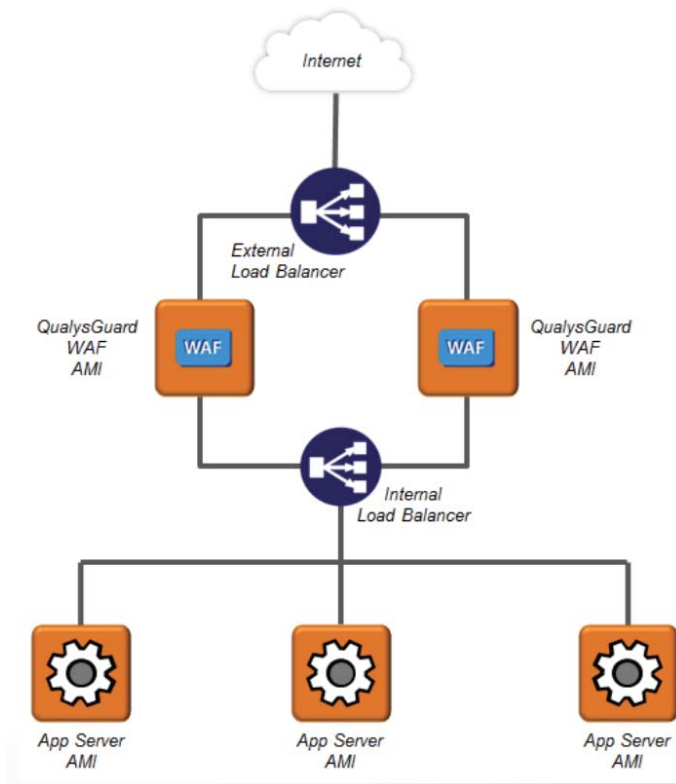


Securing Public Cloud Infrastructure using Qualys presentation at 12, attached hereto as Exhibit 13.

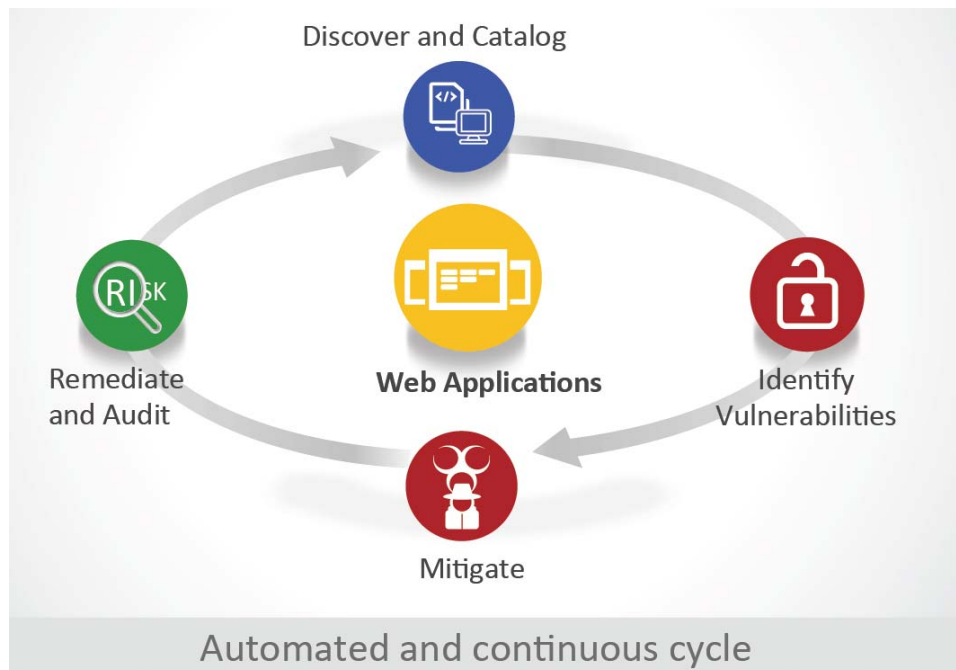
Empower security professionals to rapidly discover and mitigate critical security concerns. With the new ScanTrust feature, Qualys WAF combines with Qualys WAS to provide true visibility for your web applications: Detect with WAS, protect with WAF and get scalable scanning, false-positive reduction and one-click patching to web apps.

<https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16.

105. The '305 Accused Products include a network interface, housed within a computer, for receiving incoming content from the Internet on its destination to an Internet application running on the computer.



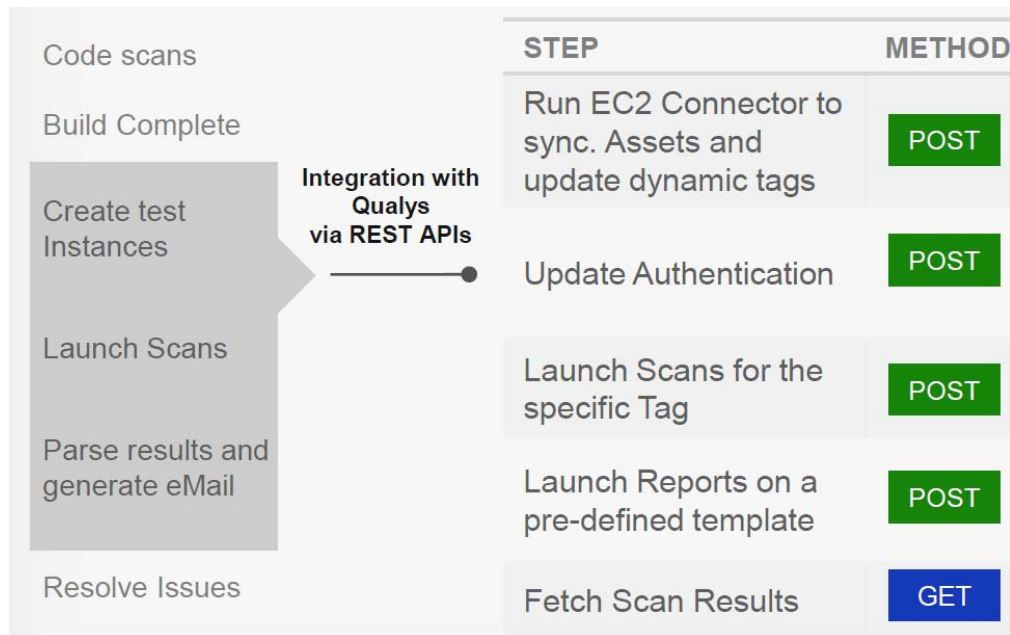
QualysGuard Web Application Security presentation at 30, attached hereto as Exhibit 8.



QualysGuard Web Application Security presentation at 5, attached hereto as Exhibit 8.

106. The '305 Accused Products include a database of parser and analyzer rules corresponding to computer exploits, stored within the computer, computer exploits being portions of program code that are malicious, and the parser and analyzer rules describe computer exploits as patterns of types of tokens, tokens being program code constructs, and types of tokens including a punctuation type, an identifier type and a function type.

107. The '305 Accused Products parse the scanning results to discover and catalog applications searching for portions of program code that are malicious according to analyzer rules (such as SQL injection, cross-site scripting (XSS), XML External Entities (XXE) and site misconfigurations), or pattern matching describing the computer exploits as patterns of types of tokens:



Securing Public Cloud Infrastructure using Qualys presentation at 31, attached hereto as Exhibit 13.

Web Application Scanning

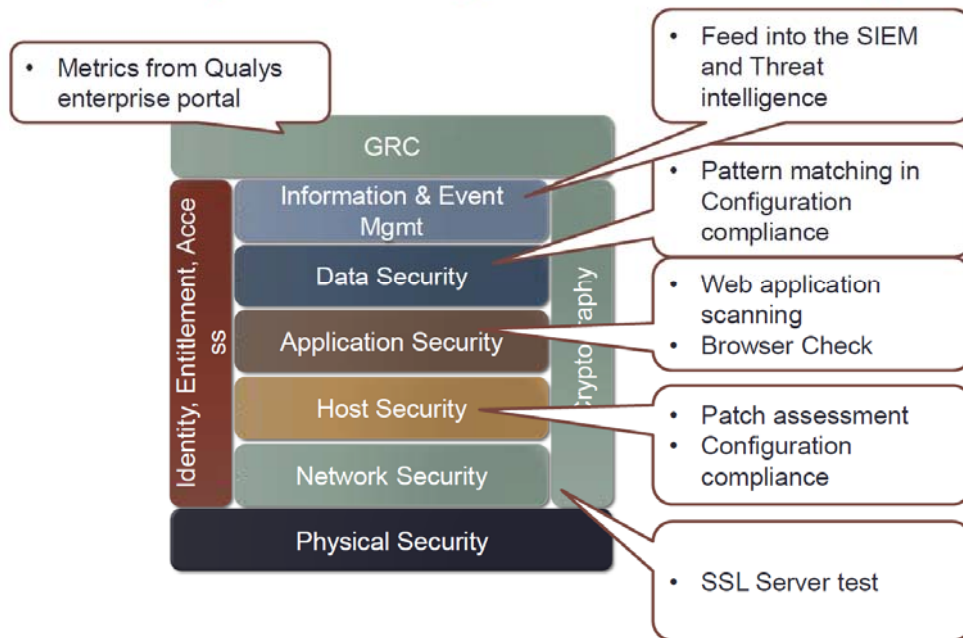
Qualys WAS accurately discovers, catalogs, and scans large numbers of web applications. WAS identifies web application vulnerabilities in the OWASP Top 10 like SQL injection, cross-site scripting (XSS), XML External Entities (XXE), and site misconfigurations. With Selenium scripts created by [Qualys Browser Recorder](#), WAS can effectively navigate through applications even when complex authentication and/or business workflows are present.

Key Features

- REST API testing and Swagger support
- Retest functionality
- Single Sign-On (SSO)
- DOM XSS Detection
- Redundant link checks
- API for automation & integration
- High-volume scanning (multi-scan feature)
- Role-based access control (RBAC)

<https://community.qualys.com/community/web-application-scanning>, attached hereto as Exhibit 11.

Security technology stack and Qualys



Integrating Qualys into the Patch and Vulnerability Management Processes presentation at 4, attached hereto as Exhibit 18.

108. The '305 Accused Products protect content using Firewall (analyzer) rules:

Secure Applications & Thwart attacks

WAS, WAF, CERTS

Identify Application and RESTAPI vulnerabilities with Web Application Scanning

Protect with Firewall rules and instant virtual patches

Discover certificates , track expiration, and broken pages



Securing Public Cloud Infrastructure using Qualys presentation at 19, attached hereto as Exhibit 13.

109. The ‘305 Accused Products include a database of parser and analyzer rules, operatively coupled with the network interface, for scanning incoming content received by the network interface to recognize the presence of potential computer exploits.

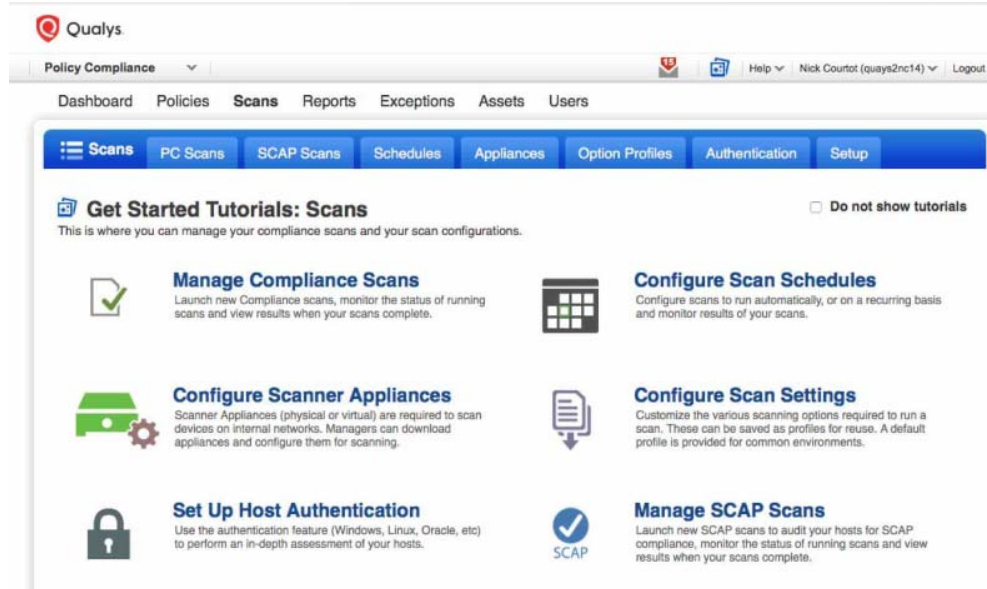
110. The ‘305 Accused Products use Policy Compliance to evaluate content profiles, and the results (high/low risk) are saved as entries in the policy index for the data including entries that relate cache content and policies:

Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes

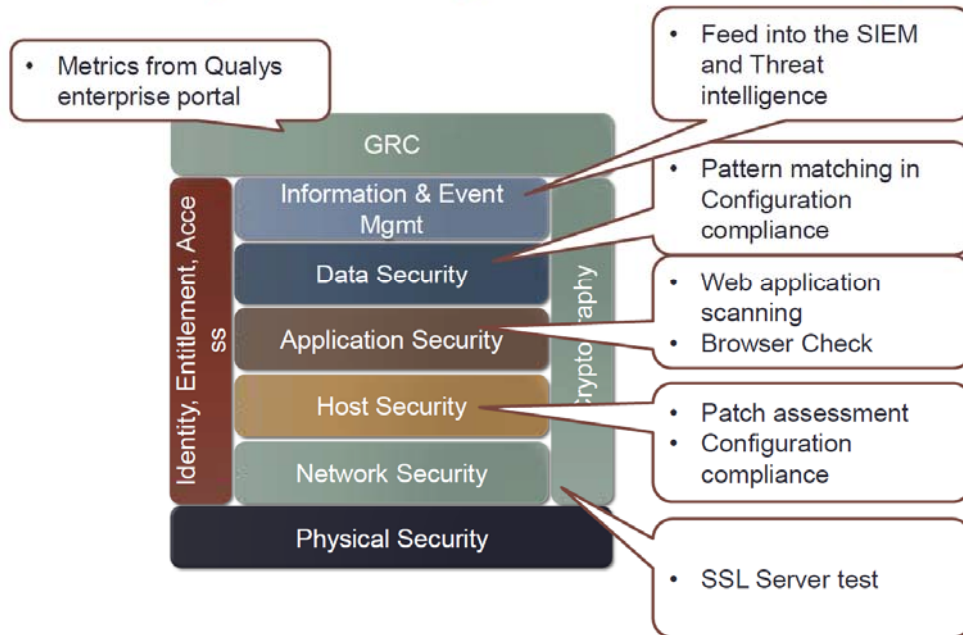
Status	Name	Last Detected	Age	Severity
New	Cleartext submission of password	15 May 2013	19	High
New	Password field with autocomplete enabled	15 May 2013	19	Low
New	Cookie without HttpOnly flag set	15 May 2013	19	Low
New	Frameable response (potential Clickjacking)	15 May 2013	19	Info
New	HTML does not specify charset	15 May 2013	19	Info

QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.



<https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

Security technology stack and Qualys



Integrating Qualys into the Patch and Vulnerability Management Processes presentation at 4, attached hereto as Exhibit 18.

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WAS engine verifies XSS vulnerabilities using multiple injections and verifications.

Detection Information

Parameter: It has been detected by exploiting the parameter **question_box** of the form located in URL **http://demo6.sea.qualys.com/?account=business**

Authentication: The payloads section will display a list of tests that show how the param could have been exploited to collect the information. In order to detect this vulnerability, no authentication has been required.

Access Path: Here is the path followed by the scanner to reach the exploitable URL:

#1 Request Show headers...

#2 Request Show headers...

#3 Request Show headers...

Payload: ui_mode=questionquestion_box=1422'43E43Cqs43E
Request: POST http://demo6.sea.qualys.com/boq/parseAction.php

Click this link to try to reproduce the vulnerability using above payload. Note that clicking this link may not lead to visible results, either because the vulnerability requires context to be previously set (authentication, cookies...) or because the exploitation of the vulnerability does not lead to any visible proof.

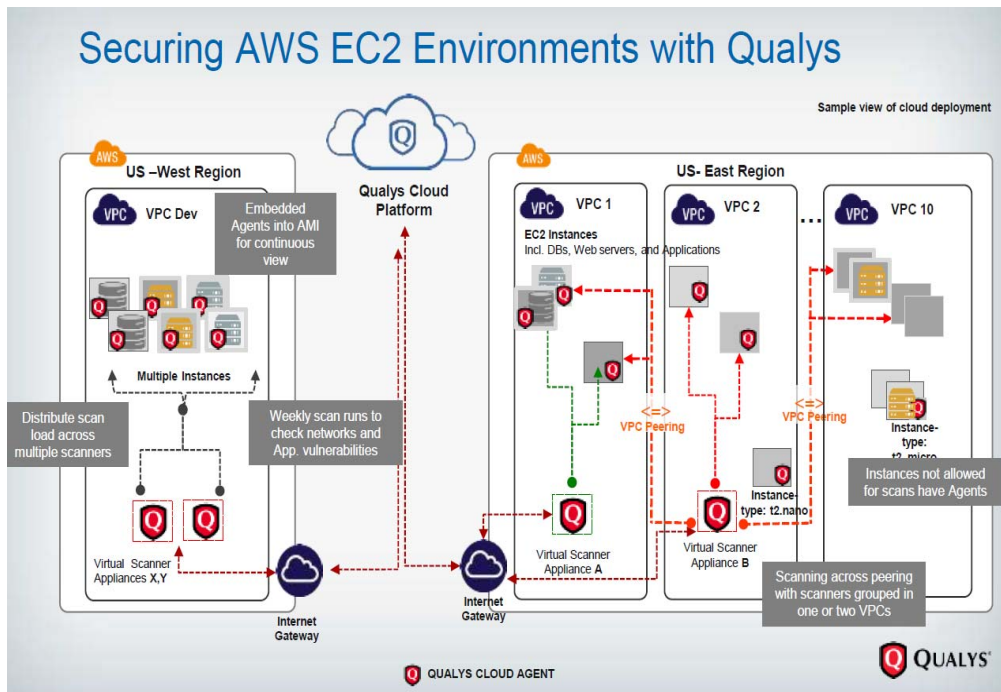
#3 Response

```
<HTML>
<HEAD>
<TITLE>Get Answers to All of your Questions</TITLE>
<HEAD>
<BODY>
No Answers found for your question: 1''<4gss>
</BODY>
</HTML>
```

* The reflected string on the response webpage indicates that the vulnerability test was successful

11 QualysGuard InfoDay 2014 presentation at 17, attached hereto as Exhibit 12.

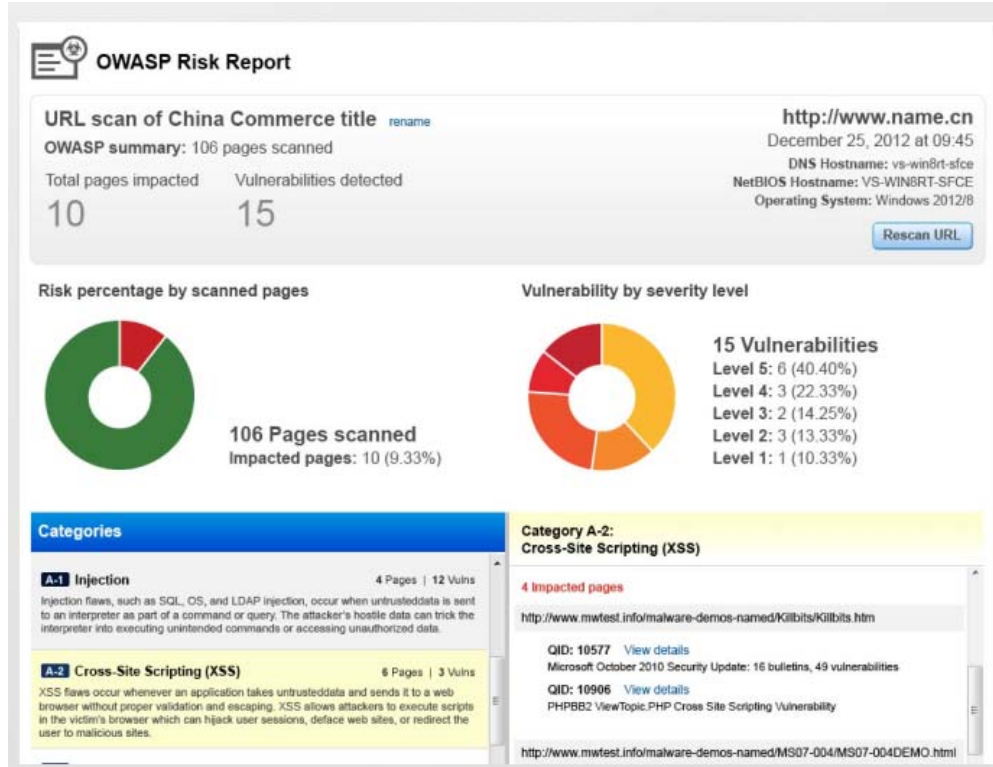
12 111. The '305 Accused Products include a network traffic probe, operatively coupled to the
13 network interface and to the rule-based content scanner, for selectively diverting incoming content
14 from its intended destination to the rule-based content scanner.



- ✓ Qualys AssetView to get visibility from the rich data collection from EC2 Connector, sensors – Scanner Appliances and Cloud Agents
- ✓ Maintaining the same processes and practices by utilizing Qualys across On Premise, Cloud, incorporating Cloud Aware features to handle ephemeral/elastic cloud workloads
- ✓ Edge servers scanned via Qualys Perimeter Internet Scanners

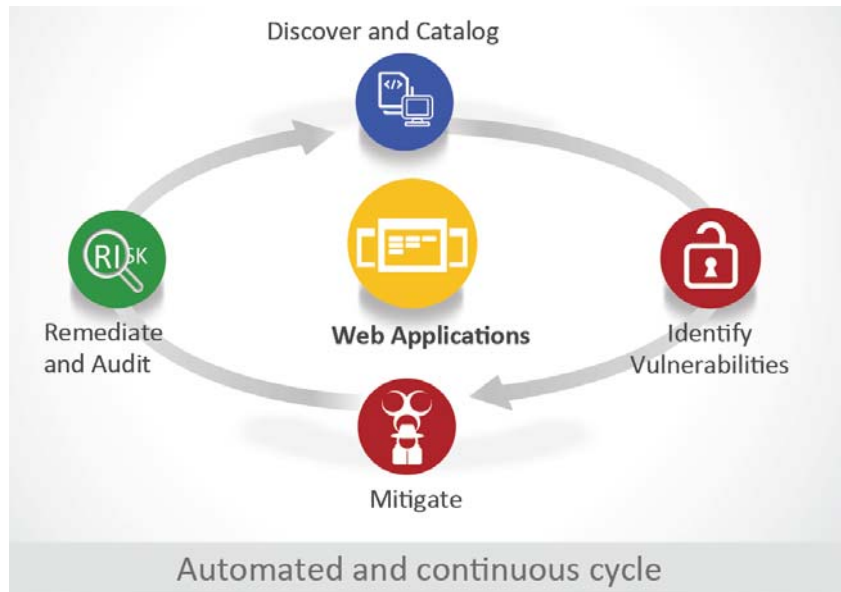
Securing Public Cloud Infrastructure using Qualys presentation at 28-29, attached hereto as Exhibit 13.

- ✓ Secure very large web apps with progressive scanning, which lets you scan in incremental stages and bypass restrictions preventing you from scanning an entire app in one scan window
- ✓ Detect OWASP Top 10 risks such as SQL injection, cross-site scripting (XSS), cross-site request forgery (CSRF) and unvalidated redirection
- ✓ Test IoT services and mobile apps as well as API-based business-to-business connectors, with Qualys WAS' SOAP and REST API scanning capabilities
- ✓ Achieve maximum scan coverage with authenticated scanning, including advanced scripting using Selenium, the open source browser automation system for web app testing
- ✓ Set scans' exact start time and duration with powerful scheduling features



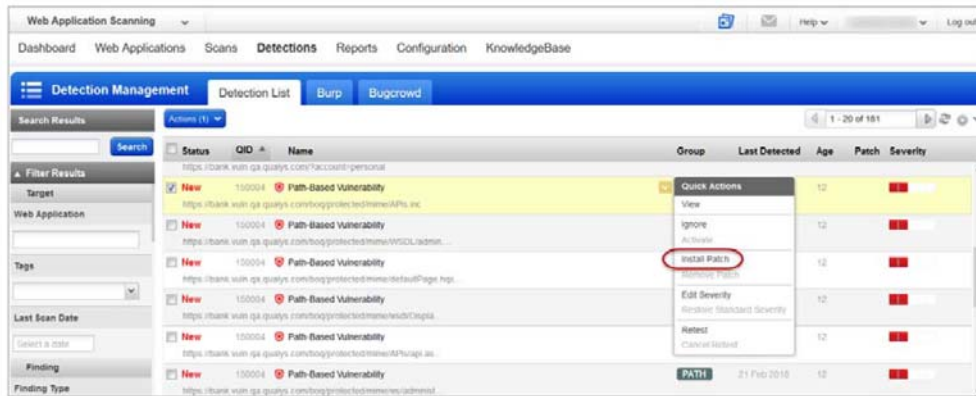
<https://www.qualys.com/apps/web-app-scanning/>, attached hereto as Exhibit 19.

112. The '305 Accused Products include a rule update manager that communicates with the database of parser and analyzer rules, for updating the database of parser and analyzer rules periodically to incorporate new parser and analyzer rules that are made available.

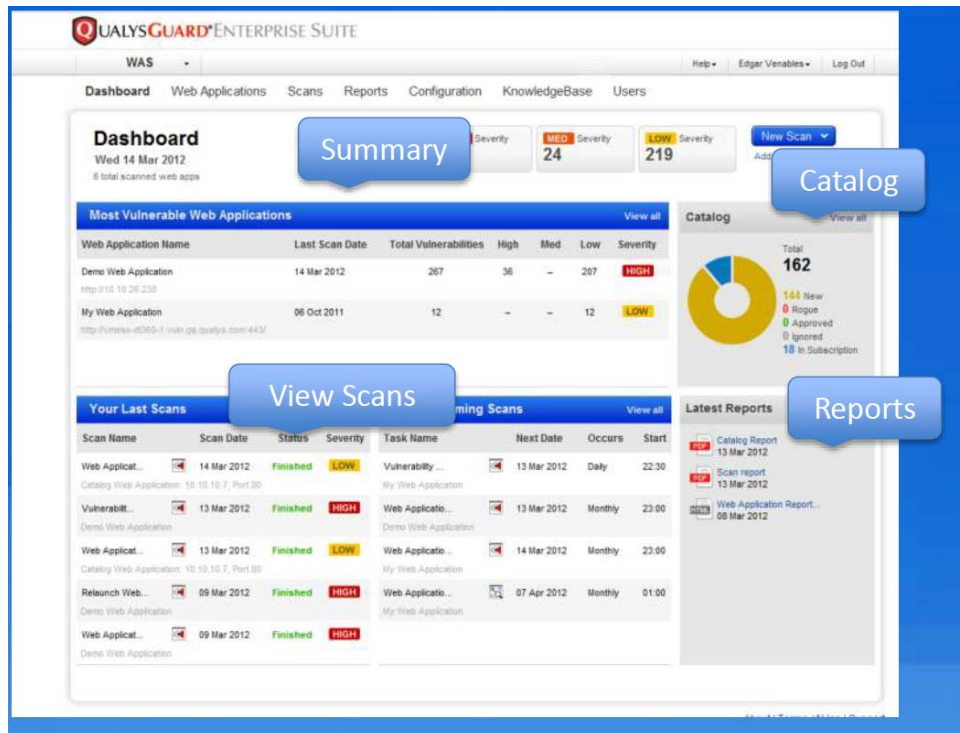


QualysGuard Web Application Security presentation at 5, attached hereto as Exhibit 8.

1 113. Virtual patching is the process of creating and implementing a temporary policy that is
 2 used to mitigate exploitation risks associated with the discovery of new security vulnerabilities. The
 3 ‘305 Accused Products add virtual patches upon vulnerability detection and catalog new threats in
 4 order to update parser and analyzer rules:



12 Qualys Web Application Firewall Getting Started Guide at 27, attached hereto as Exhibit 20.

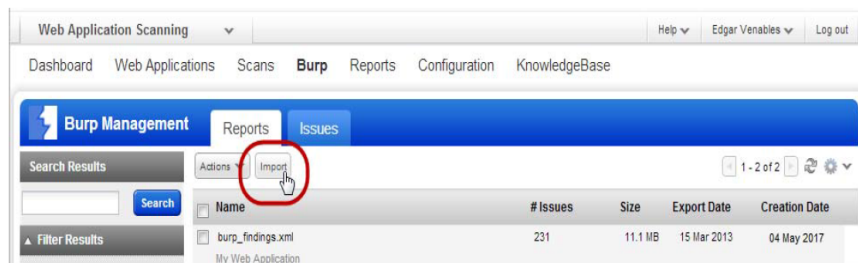


25 QualysGuard InfoDay 2014 presentation at 29, attached hereto as Exhibit 12.

1 114. The '305 Accused Products include a database manager for storing scanned data in a
2 database:

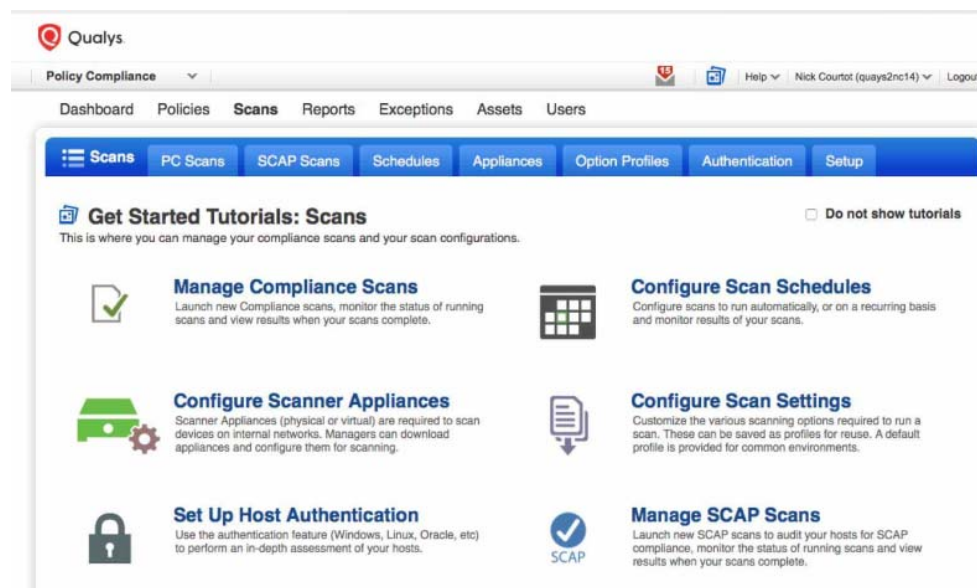
3 The Burp Management feature gives you a way to store the findings discovered by the Burp
4 Suite scanner with those discovered by WAS and share this information with multiple
5 users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not
6 available to Express Lite users.)

7 To get started click the Burp option on the top menu and go to Burp > Reports, then click
8 Import and we'll walk you through the steps. Your issues list shows imported Burp issues.



12 Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 20, attached hereto as
13 Exhibit 15.

14 115. The '305 Accused Products use Policy Compliance to evaluate content profiles, and the
15 results are saved as entries in the policy index.



26 <https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

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1 116. Defendant's infringement of the '305 Patent has injured Finjan in an amount to be
2 proven at trial, but not less than a reasonable royalty. Additionally, as a result of Defendant's unlawful
3 activities, Finjan has suffered and will continue to suffer irreparable harm for which there is no
4 adequate remedy at law. Finjan and Defendant compete in the security software space, and Finjan is
5 actively engaged in licensing its patent portfolio. Defendant's continued infringement of the '305
6 Patent causes harm to Finjan in the form of price erosion, loss of goodwill, damage to reputation, loss
7 of business opportunities, inadequacy of money damages, and direct and indirect competition.
8 Monetary damages are insufficient to compensate Finjan for these harms, and thus Finjan is entitled to
9 preliminary and/or permanent injunctive relief.

10 117. Defendant has been long-aware of Finjan's patents, including the '305 Patent, and
11 continued its unauthorized infringing activity despite this knowledge. As discussed above, Finjan
12 actively and diligently attempted to engage in good faith negotiations with Defendant for nearly three
13 years regarding Defendant's infringement of Finjan's Asserted Patents. Even after being shown that
14 its products infringe Finjan's patents, including the '305 Patent, on information and belief Defendant
15 made no effort to avoid infringement. Instead, Defendant continued to incorporate its infringing
16 technology into additional products, such as those identified in this complaint. All of these actions
17 demonstrate Defendant's blatant and egregious disregard for Finjan's patent rights.

18 118. Despite its knowledge of Finjan's patent portfolio and Asserted Patents, and its specific
19 knowledge of its own infringement, Defendant continued to sell the '305 Accused Products in
20 complete and reckless disregard of Finjan's patent rights. As such, Defendant acted recklessly,
21 willfully, wantonly, and deliberately engaged in acts of infringement of the '305 Patent, justifying an
22 award to Finjan of increased damages under 35 U.S.C. § 284, and attorneys' fees and costs incurred
23 under 35 U.S.C. § 285.

24 **COUNT VI**

25 **(Indirect Infringement of the '305 Patent pursuant to 35 U.S.C. § 271(b))**

26 119. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
27 allegations of the preceding paragraphs, as set forth above.
28

1 120. In addition to directly infringing the '305 Patent, Defendant knew or was willfully blind
2 to the fact that it was inducing infringement of at least Claims 14-24 of the '305 Patent under 35
3 U.S.C. § 271(b) by instructing, directing and requiring its customers to perform the steps of the method
4 claims of the '305 Patent, either literally or under the doctrine of equivalents.

5 121. Additionally, Defendant knew or was willfully blind to the fact that it was inducing
6 infringement of at least Claims 14-24 of the '305 Patent under 35 U.S.C. § 271(b) by instructing,
7 directing and requiring its developers to perform the steps of the method claims of the '305 Patent,
8 either literally or under the doctrine of equivalents.

9 122. Defendant knowingly and actively aided and abetted the direct infringement of the '305
10 Patent by instructing and encouraging its customers, purchasers, users, and developers to use the '305
11 Accused Products. Such instructions and encouragement included advising third parties to use the
12 '305 Accused Products in an infringing manner, providing a mechanism through which third parties
13 may infringe the '305 Patent, by advertising and promoting the use of the '305 Accused Products in an
14 infringing manner, and distributing guidelines and instructions to third parties on how to use the '305
15 Accused Products in an infringing manner. *See, e.g.*, QualysGuard Web Application Security
16 presentation, attached hereto as Exhibit 8; [https://community.qualys.com/community/web-application-](https://community.qualys.com/community/web-application-scanning)
17 [scanning](https://community.qualys.com/community/web-application-scanning), attached hereto as Exhibit 11; QualysGuard InfoDay 2014 presentation , attached hereto as
18 Exhibit 12; Securing Public Cloud Infrastructure using Qualys presentation, attached hereto as Exhibit
19 13; Qualys Web Application Scanning Getting Started Guide Version 6.0.1, attached hereto as Exhibit
20 15; <https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16;
21 <https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17; Integrating Qualys
22 into the Patch and Vulnerability Management Processes presentation, attached hereto as Exhibit 18;
23 <https://www.qualys.com/apps/web-app-scanning/>, attached hereto as Exhibit 19; Qualys Web
24 Application Firewall Getting Started Guide, attached hereto as Exhibit 20.

COUNT VII

(Direct Infringement of the ‘408 Patent pursuant to 35 U.S.C. § 271(a))

1
2 123. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
3 allegations of the preceding paragraphs, as set forth above.

4 124. Defendant has infringed and continues to infringe Claims 1-35 of the ‘408 Patent in
5 violation of 35 U.S.C. § 271(a).

6 125. Defendant’s infringement is based upon literal infringement or, in the alternative,
7 infringement under the doctrine of equivalents.

8 126. Defendant’s acts of making, using, importing, selling, and offering for sale infringing
9 products and services has been without the permission, consent, authorization or license of Finjan.

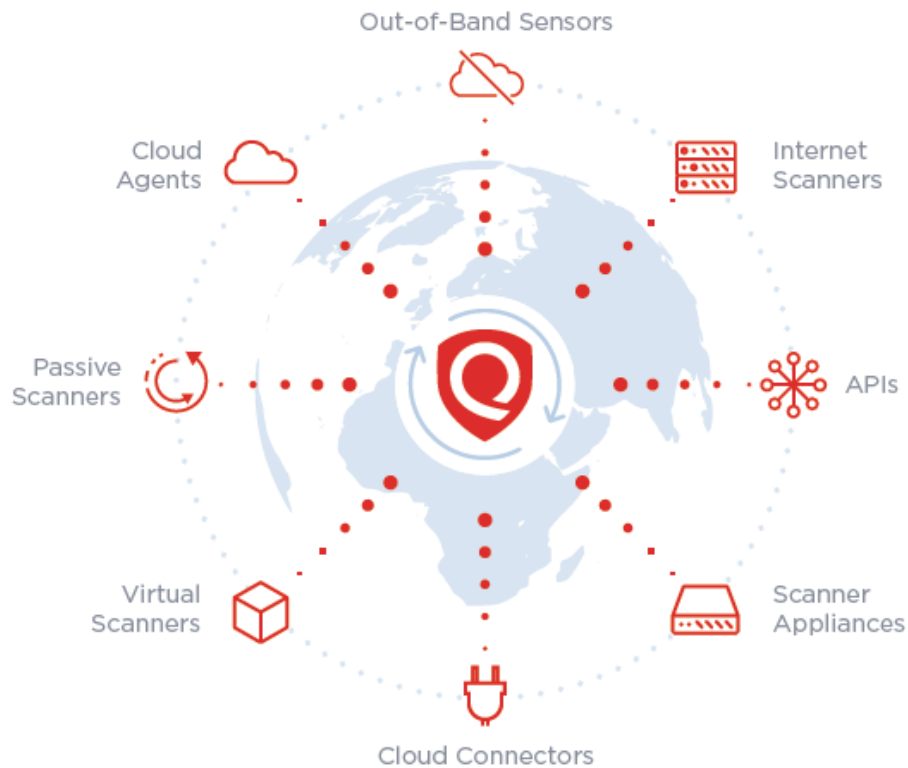
10 127. Defendant’s infringement includes the manufacture, use, sale, importation and offer for
11 sale of Defendant’s products and services that utilize Vulnerability Management, Threat Protection,
12 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
13 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, “the
14 ‘408 Accused Products”).

15 128. The ‘408 Accused Products embody the patented invention of the ‘408 Patent and
16 infringe the ‘408 Patent because they make or use the patented system or perform the patented method
17 of rule-based scanning of web-based content for exploits written in different programming languages,
18 by, for example, expressing the exploits as patterns of tokens or using a parse tree.

19 129. To the extent the ‘408 Accused Products use a system that includes modules,
20 components or software owned by third parties, the ‘408 Accused Products still infringe the ‘408
21 Patent because Defendant is vicariously liable for the use of the patented system by controlling the
22 entire system and deriving a benefit from the use of every element of the entire system. Similarly, to
23 the extent Defendant’s customers perform a step or steps of the patented method or the ‘408 Accused
24 Products incorporate third parties’ modules, components or software that perform one or more patented
25 steps, Defendant’s ‘408 Accused Products still infringe the ‘408 Patent because the ‘408 Accused
26
27
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1 Products condition receipt by the third parties of a benefit upon performance of a step or steps of the
 2 patented method and establish the manner or timing of that performance.

3 130. The '408 Accused Products are computer systems for multi-lingual content scanning.



17 Qualys Cloud Platform datasheet at 2, attached hereto as Exhibit 22.

18 **Key Features**

- 19 - Crawl web applications (Intranet, Internet) and scan them for vulnerabilities
- 20 - Fully interactive UI with flexible workflows and reporting
- 21 - Identify web applications' handling of sensitive or secret data
- 22 - Customize: black/white lists, robots.txt, sitemap.xml and more
- Supports common authentication schemes
- View reports with recommended security coding practice and configuration

23 **Robust Scalable Scanning Capabilities**

- 24 - Supports scanning HTML web applications with JavaScript and embedded Flash
- 25 - Comprehensive detection of custom web application vulnerabilities including OWASP Top 10 Vulnerabilities
- 26 - Differentiates exploitable fault-injection problems from simple information disclosure
- 27 - Profiles custom web application behaviors
- 28 - Configures scanning performance with customizable performance level

1 Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 4, attached hereto as Exhibit
 2 15.

3 131. The '408 Accused Products include a non-transitory computer-readable storage medium
 4 (i.e., computer software) storing computer-executable program code that is executed by a computer to
 5 scan incoming program code.



15 Qualys Cloud Platform datasheet at 3, attached hereto as Exhibit 22.

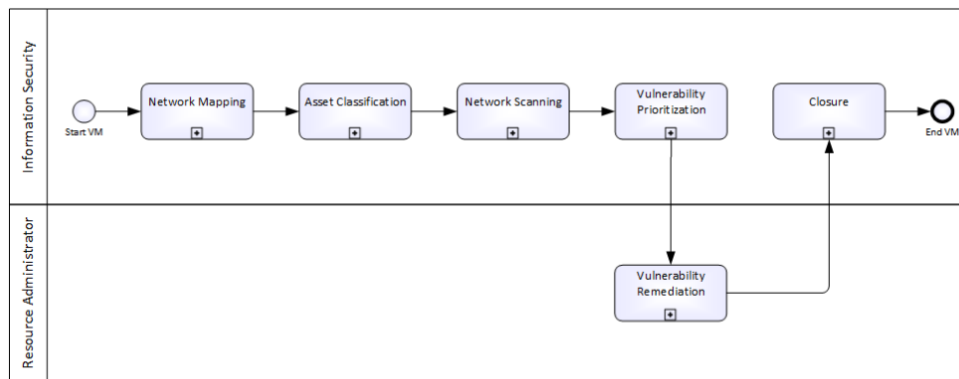
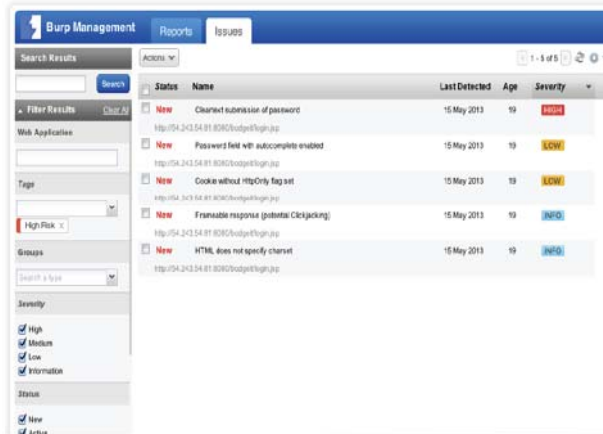


Figure 1: Vulnerability management process

24 <https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as
 25 Exhibit 10.

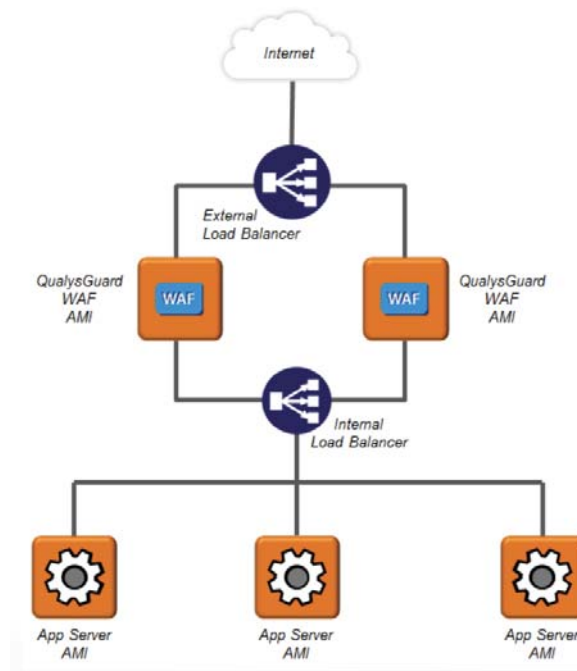
Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes



QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.

132. The '408 Accused Products include a receiver, stored on the medium and executed by the computer, for receiving an incoming stream of program code.



QualysGuard Web Application Security presentation at 30, attached hereto as Exhibit 8.

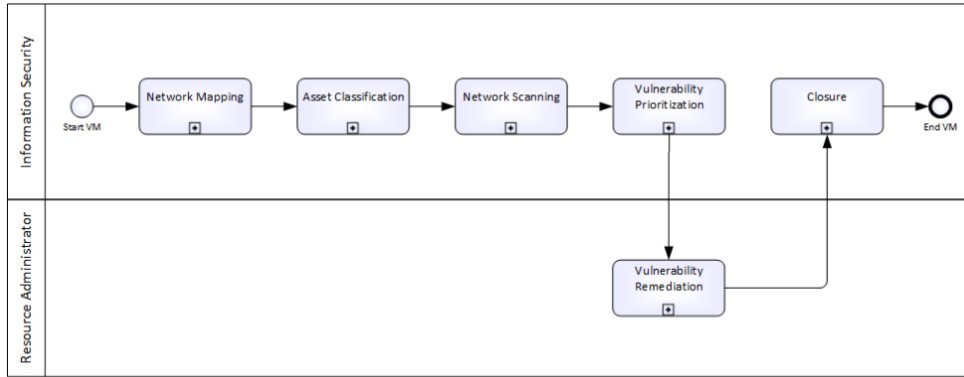
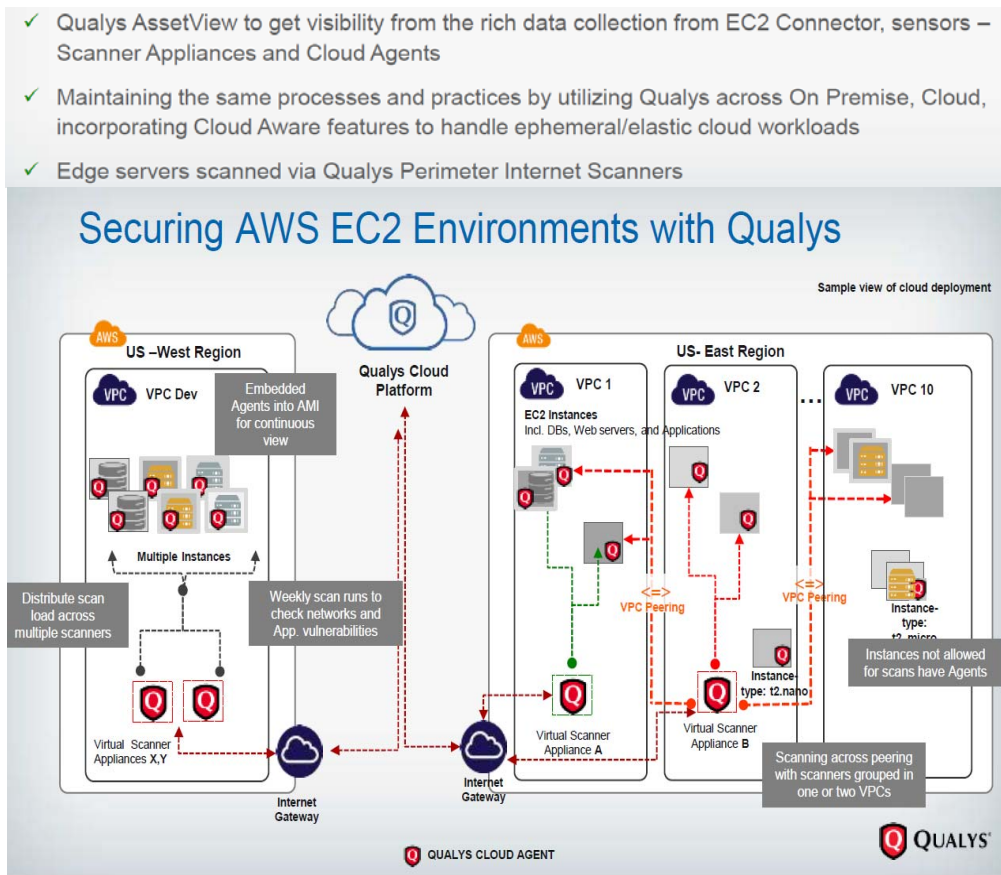


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.



Securing Public Cloud Infrastructure using Qualys presentation at 28-29, attached hereto as Exhibit 13.

133. The '408 Accused Products include a multi-lingual language detector, stored on the medium and executed by the computer, operatively coupled to the receiver for detecting the programming language in which the incoming stream is written:

Key Features

- Crawl web applications (Intranet, Internet) and scan them for vulnerabilities
- Fully interactive UI with flexible workflows and reporting
- Identify web applications' handling of sensitive or secret data
- Customize: black/white lists, robots.txt, sitemap.xml and more
- Supports common authentication schemes
- View reports with recommended security coding practice and configuration

Robust Scalable Scanning Capabilities

- Supports scanning HTML web applications with JavaScript and embedded Flash
- Comprehensive detection of custom web application vulnerabilities including OWASP Top 10 Vulnerabilities
- Differentiates exploitable fault-injection problems from simple information disclosure
- Profiles custom web application behaviors
- Configures scanning performance with customizable performance level

Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 4, attached hereto as Exhibit 15.

134. The '408 Accused Products include a scanner instantiator, stored on the medium and executed by the computer, operatively coupled to the receiver and the multi-lingual language detector for instantiating a scanner for the specific programming language.

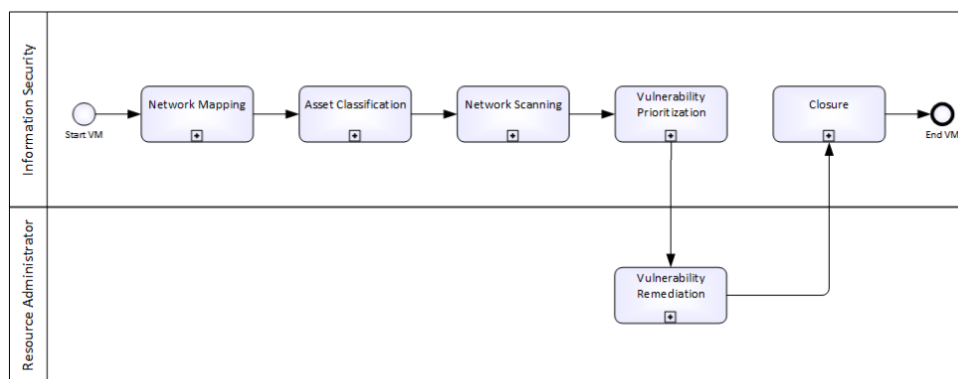
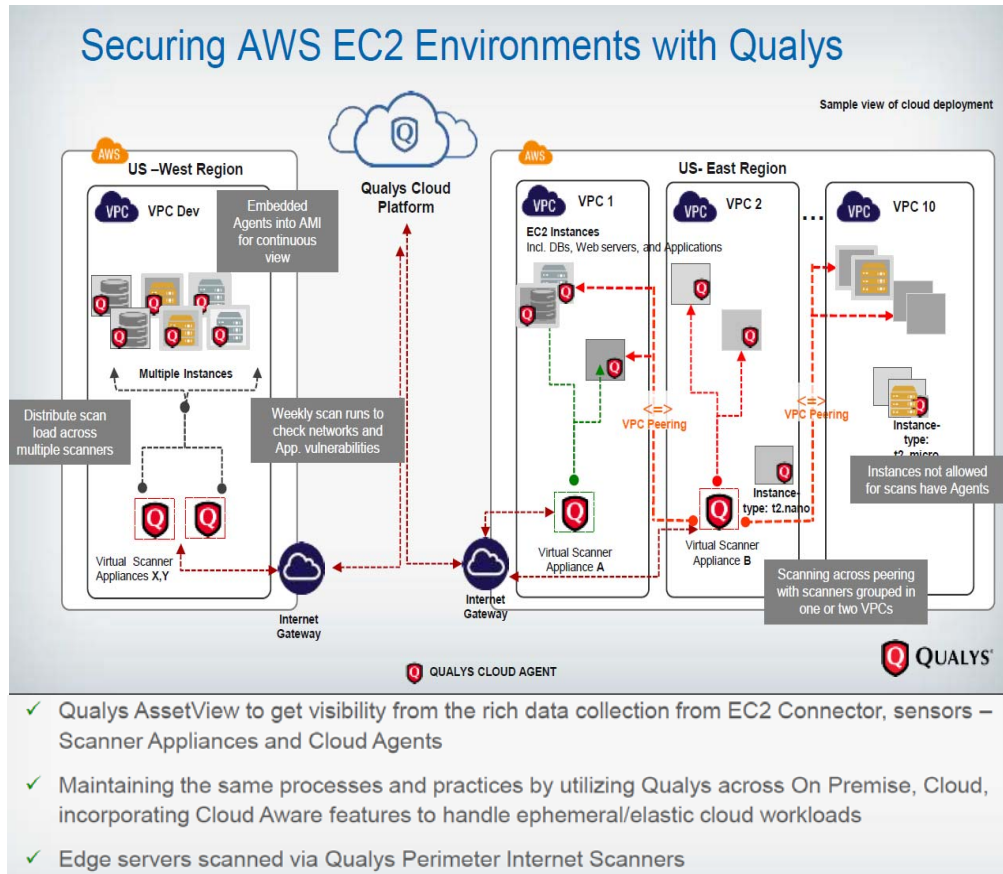


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.



Securing Public Cloud Infrastructure using Qualys presentation at 28-29, attached hereto as Exhibit 13.

Key Features

- Crawl web applications (Intranet, Internet) and scan them for vulnerabilities
- Fully interactive UI with flexible workflows and reporting
- Identify web applications' handling of sensitive or secret data
- Customize: black/white lists, robots.txt, sitemap.xml and more
- Supports common authentication schemes
- View reports with recommended security coding practice and configuration

Robust Scalable Scanning Capabilities

- Supports scanning HTML web applications with JavaScript and embedded Flash
- Comprehensive detection of custom web application vulnerabilities including OWASP Top 10 Vulnerabilities
- Differentiates exploitable fault-injection problems from simple information disclosure
- Profiles custom web application behaviors
- Configures scanning performance with customizable performance level

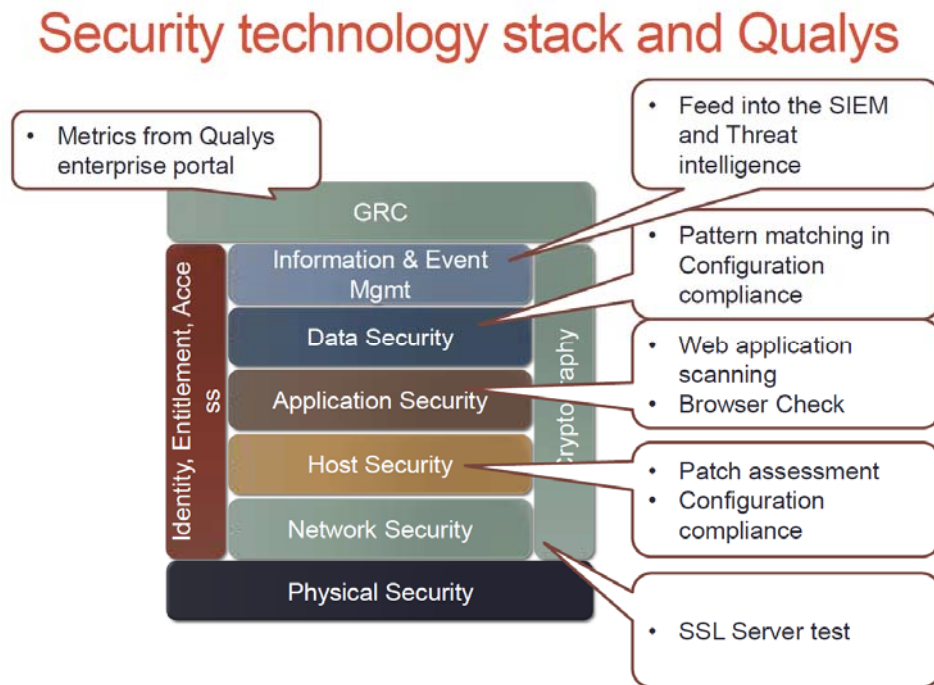
Qualys Cloud Platform - Benefits for Users

New technologies implemented in the Java-based backend offer many benefits for users:

- UI with dynamic and interactive interfaces, wizards and new report templates to present scan data with a wide range of presentation options.
- Customizable template-driven reporting engine outputs reports in a variety of formats (html, pdf, encrypted pdf, ppt, xml, cvs).
- Fast searching of several extensive Qualys data sets, including scan results, asset data, scan profiles, users and vulnerabilities.
- Create and manage tags (static and dynamic) to group and organize web applications.
- Dynamic distribution of scans on multiple scanners based on availability and load to optimize scanning of large networks, drastically reducing the overall scan time required to complete large scan jobs.

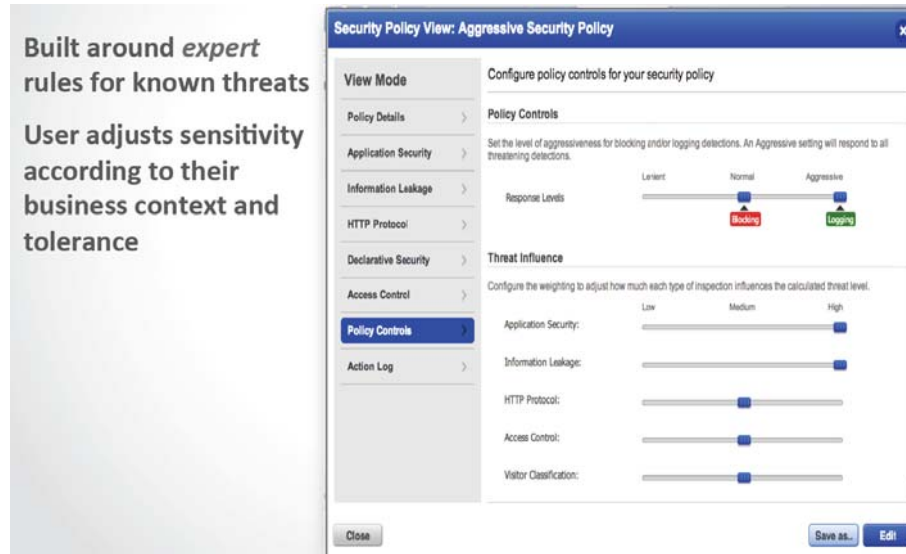
Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 4, attached hereto as Exhibit 15.

135. The '408 Accused Products include a rules accessor for accessing parser rules and analyzer rules for the specific programming language, where the parser rules define certain patterns in terms of tokens, tokens being lexical constructs for the specific programming language, and where the analyzer rules identify certain combinations of tokens and patterns as being indicators of potential exploits, exploits being portions of program code that are malicious.

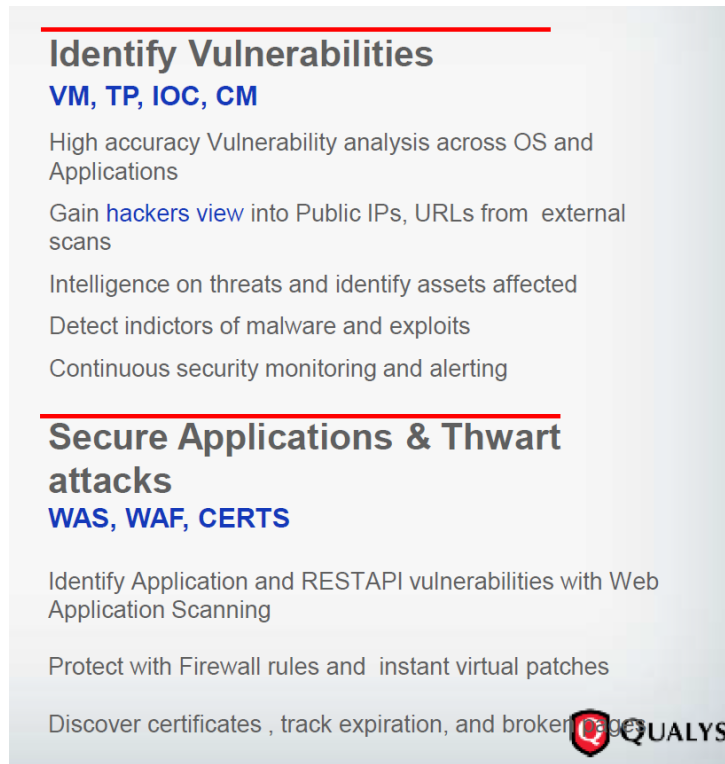


Integrating Qualys into the Patch and Vulnerability Management Processes presentation at 4, attached hereto as Exhibit 18.

136. The '408 Accused Products use rules-based scanners and detect indicators of malware such as certificates, track expirations, and broken pages:



QualysGuard Web Application Security presentation at 33, attached hereto as Exhibit 8.



Securing Public Cloud Infrastructure using Qualys presentation at 19, attached hereto as Exhibit 13.

1 137. The '408 Accused Products include a tokenizer, for identifying individual tokens within
2 the incoming stream.

3 138. The '408 Accused Products scan, discover and catalog applications searching for
4 portions of program code that are malicious according to token-based analyzer rules (such as SQL
5 injection, cross-site scripting (XSS), XML External Entities (XXE) and site misconfigurations):

6 **Web Application Scanning**

7 Qualys WAS accurately discovers, catalogs, and scans large numbers of web applications. WAS identifies web application
8 vulnerabilities in the OWASP Top 10 like SQL injection, cross-site scripting (XSS), XML External Entities (XXE), and site
9 misconfigurations. With Selenium scripts created by [Qualys Browser Recorder](#), WAS can effectively navigate through
applications even when complex authentication and/or business workflows are present.

10 **Key Features**

- 11
- 12 • [REST API testing and Swagger support](#)
 - 13 • [Retest functionality](#)
 - 14 • [Single Sign-On \(SSO\)](#)
 - 15 • [DOM XSS Detection](#)
 - 16 • [Redundant link checks](#)
 - 17 • [API for automation & integration](#)
 - 18 • [High-volume scanning](#) (multi-scan feature)
 - 19 • [Role-based access control \(RBAC\)](#)

20 <https://community.qualys.com/community/web-application-scanning>, attached hereto as Exhibit 11.

21 139. The '408 Accused Products detect indicators of malware such as certificates, track
22 expirations, and broken pages:
23
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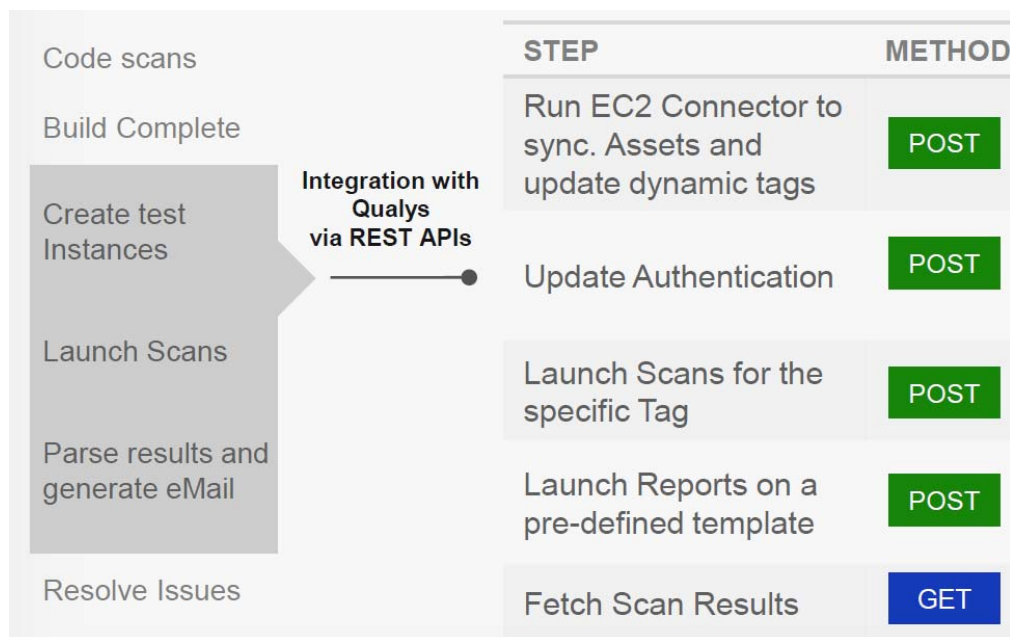
Identify Vulnerabilities
VM, TP, IOC, CM
 High accuracy Vulnerability analysis across OS and Applications
 Gain **hackers view** into Public IPs, URLs from external scans
 Intelligence on threats and identify assets affected
 Detect indicators of malware and exploits
 Continuous security monitoring and alerting

Secure Applications & Thwart attacks
WAS, WAF, CERTS
 Identify Application and RESTAPI vulnerabilities with Web Application Scanning
 Protect with Firewall rules and instant virtual patches
 Discover certificates, track expiration, and broken certificates

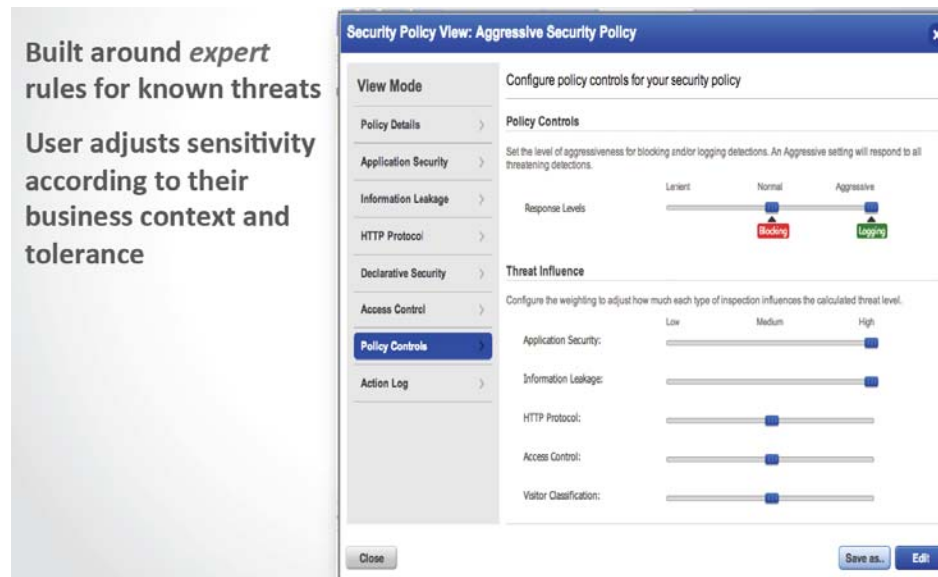
QUALYS

Securing Public Cloud Infrastructure using Qualys presentation at 19, attached hereto as Exhibit 13.

140. The '408 Accused Products include a parser, for dynamically building a parse tree while the receiver is receiving the incoming stream, where the parse tree nodes represent tokens and patterns in accordance with the parser rules accessed by the rules accessor.



Securing Public Cloud Infrastructure using Qualys presentation at 31, attached hereto as Exhibit 13.



QualysGuard Web Application Security presentation at 33, attached hereto as Exhibit 8.

141. The '408 Accused Products scan, discover and catalog applications searching for portions of program code that are malicious according to analyzer rules (such as SQL injection, cross-site scripting (XSS), XML External Entities (XXE) and site misconfigurations):

Web Application Scanning

Qualys WAS accurately discovers, catalogs, and scans large numbers of web applications. WAS identifies web application vulnerabilities in the OWASP Top 10 like SQL injection, cross-site scripting (XSS), XML External Entities (XXE), and site misconfigurations. With Selenium scripts created by [Qualys Browser Recorder](#), WAS can effectively navigate through applications even when complex authentication and/or business workflows are present.

Key Features

- [REST API testing and Swagger support](#)
- [Retest functionality](#)
- [Single Sign-On \(SSO\)](#)
- [DOM XSS Detection](#)
- [Redundant link checks](#)
- [API for automation & integration](#)
- [High-volume scanning \(multi-scan feature\)](#)
- [Role-based access control \(RBAC\)](#)

<https://community.qualys.com/community/web-application-scanning>, attached hereto as Exhibit 11.

142. The '408 Accused Products include an analyzer, for dynamically detecting, while the parser is dynamically building the parse tree, combinations of nodes in the parse tree which are indicators of potential exploits, based on the analyzer rules.

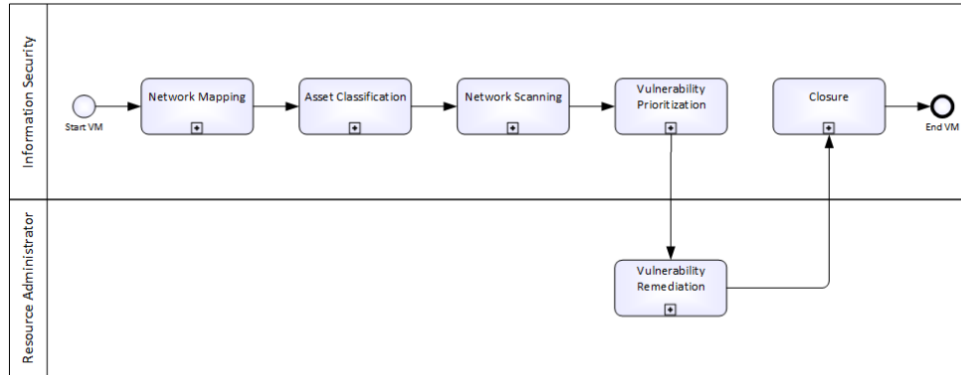


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

143. The ‘408 Accused Products scan, discover and catalog applications searching for portions of program code that are malicious according to analyzer rules (such as SQL injection, cross-site scripting (XSS), XML External Entities (XXE) and site misconfigurations):

Web Application Scanning

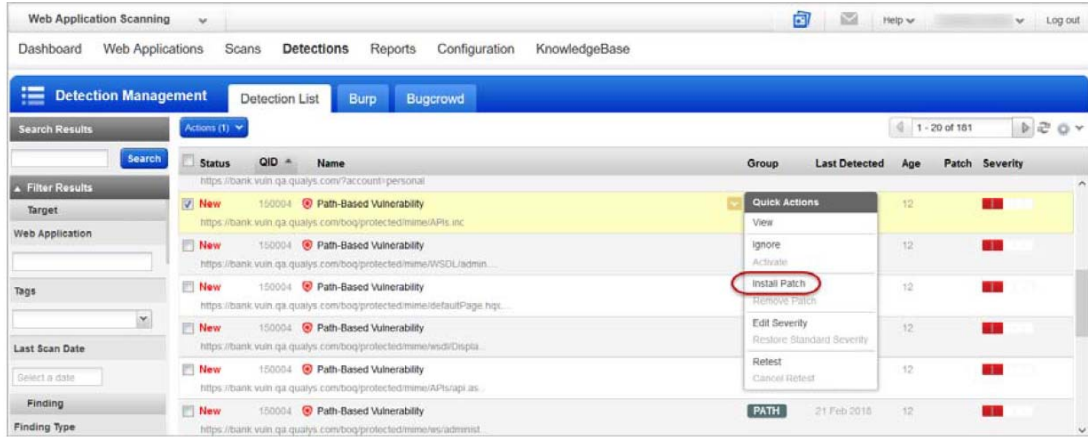
Qualys WAS accurately discovers, catalogs, and scans large numbers of web applications. WAS identifies web application vulnerabilities in the OWASP Top 10 like SQL injection, cross-site scripting (XSS), XML External Entities (XXE), and site misconfigurations. With Selenium scripts created by [Qualys Browser Recorder](#), WAS can effectively navigate through applications even when complex authentication and/or business workflows are present.

Key Features

- [REST API testing and Swagger support](#)
- [Retest functionality](#)
- [Single Sign-On \(SSO\)](#)
- [DOM XSS Detection](#)
- [Redundant link checks](#)
- [API for automation & integration](#)
- [High-volume scanning \(multi-scan feature\)](#)
- [Role-based access control \(RBAC\)](#)

<https://community.qualys.com/community/web-application-scanning>, attached hereto as Exhibit 11.

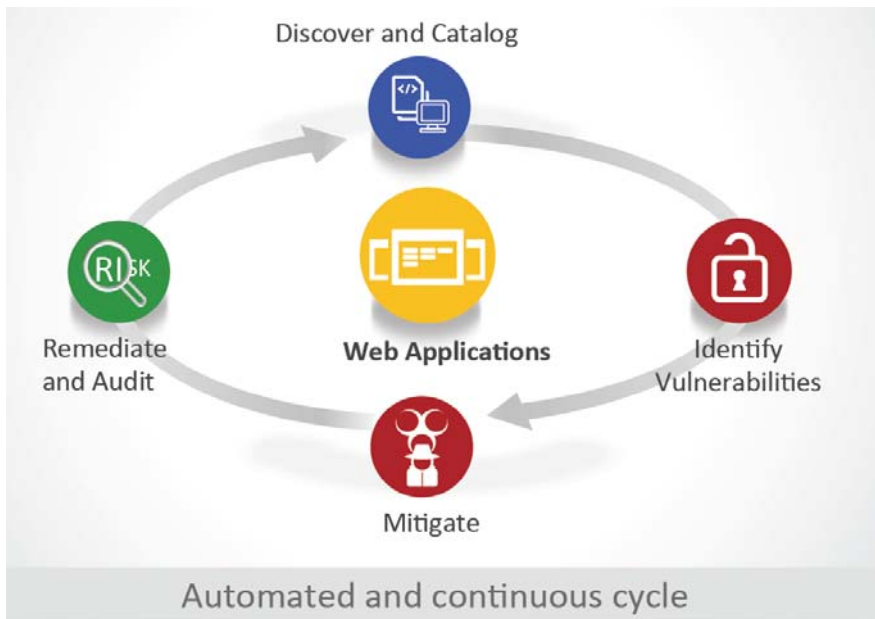
144. Virtual patching is the process of creating and implementing a temporary policy that is used to mitigate exploitation risks associated with the discovery of new security vulnerabilities. The ‘408 Accused Products add virtual patches upon vulnerability detection:



Qualys Web Application Firewall Getting Started Guide at 27, attached hereto as Exhibit 20.

145. The '408 Accused Products include a notifier, stored on the medium and executed by the computer, operatively coupled to said scanner instantiator for indicating the presence of potential exploits within the incoming stream, based on the results from the analyzer.

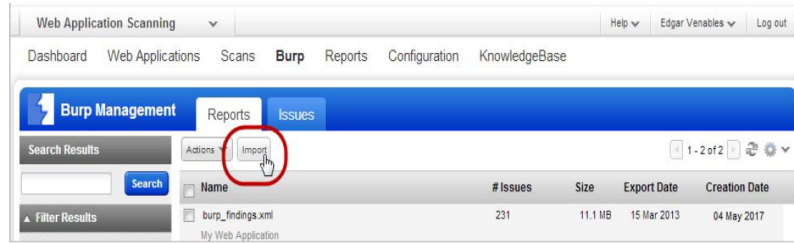
146. The '408 Accused Products perform continuous asset discovery by receiving incoming content and indicating the presence of potential exploits:



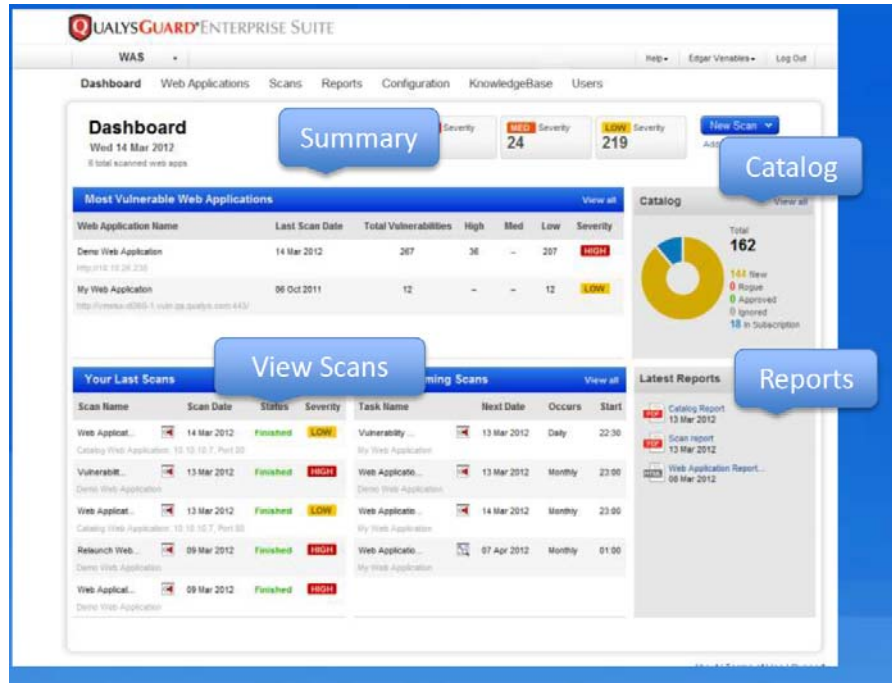
QualysGuard Web Application Security presentation at 5, attached hereto as Exhibit 8.

1 The Burp Management feature gives you a way to store the findings discovered by the Burp
 2 Suite scanner with those discovered by WAS and share this information with multiple
 3 users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not
 4 available to Express Lite users.)

5 To get started click the Burp option on the top menu and go to Burp > Reports, then click
 6 Import and we'll walk you through the steps. Your issues list shows imported Burp issues.

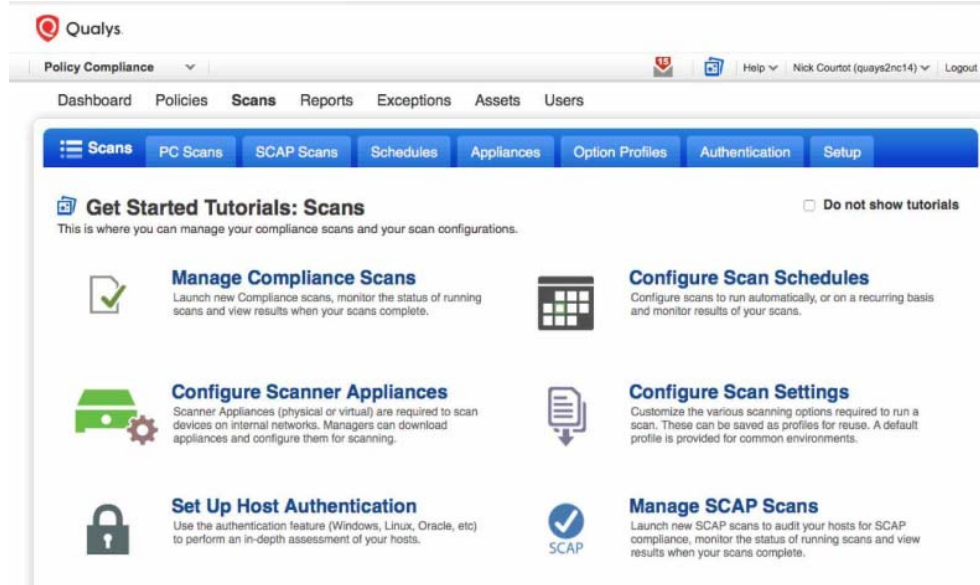


7
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 9 Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 4, attached hereto as Exhibit
 10 15.



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 21 QualysGuard InfoDay 2014 presentation at 29, attached hereto as Exhibit 12.

22 147. The '408 Accused Products use Policy Compliance to evaluate content profiles, and the
 23 results are saved as entries in the policy index.
 24
 25
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 27
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<https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

148. Defendant's infringement of the '408 Patent has injured Finjan in an amount to be proven at trial, but not less than a reasonable royalty. Additionally, as a result of Defendant's unlawful activities, Finjan has suffered and will continue to suffer irreparable harm for which there is no adequate remedy at law. Finjan and Defendant compete in the security software space, and Finjan is actively engaged in licensing its patent portfolio. Defendant's continued infringement of the '408 Patent causes harm to Finjan in the form of price erosion, loss of goodwill, damage to reputation, loss of business opportunities, inadequacy of money damages, and direct and indirect competition. Monetary damages are insufficient to compensate Finjan for these harms, and thus Finjan is entitled to preliminary and/or permanent injunctive relief.

149. Defendant has been long-aware of Finjan's patents, including the '408 Patent, and continued its unauthorized infringing activity despite this knowledge. As discussed above, Finjan actively and diligently attempted to engage in good faith negotiations with Defendant for nearly three years regarding Defendant's infringement of Finjan's Asserted Patents. Even after being shown that its products infringe Finjan's patents, on information and belief Defendant made no effort to avoid infringement. Instead, Defendant continued to incorporate its infringing technology into additional

1 products, such as those identified in this complaint. All of these actions demonstrate Defendant's
2 blatant and egregious disregard for Finjan's patent rights.

3 150. Despite its knowledge of Finjan's patent portfolio and Asserted Patents, and its specific
4 knowledge of its own infringement, Defendant continued to sell the '408 Accused Products in
5 complete and reckless disregard of Finjan's patent rights. As such, Defendant acted recklessly,
6 willfully, wantonly, and deliberately engaged in acts of infringement of the '408 Patent, justifying an
7 award to Finjan of increased damages under 35 U.S.C. § 284, and attorneys' fees and costs incurred
8 under 35 U.S.C. § 285.

9 **COUNT VIII**

10 **(Indirect Infringement of the '408 Patent pursuant to 35 U.S.C. § 271(b))**

11 151. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
12 allegations of the preceding paragraphs, as set forth above.

13 152. In addition to directly infringing the '408 Patent, Defendant knew or was willfully blind
14 to the fact that it was inducing infringement of at least Claims 1-8, 23-28 of the '408 Patent under 35
15 U.S.C. § 271(b) by instructing, directing and requiring its customers to perform the steps of the method
16 claims of the '408 Patent, either literally or under the doctrine of equivalents.

17 153. Additionally, Defendant knew or was willfully blind to the fact that it was inducing
18 infringement of at least Claims 1-8 and 23-28 of the '408 Patent under 35 U.S.C. § 271(b) by
19 instructing, directing and requiring its developers to perform the steps of the method claims of the '408
20 Patent, either literally or under the doctrine of equivalents.

21 154. Defendant knowingly and actively aided and abetted the direct infringement of the '408
22 Patent by instructing and encouraging its customers and developers to use the '408 Accused Products.
23 Such instructions and encouragement included advising third parties to use the '408 Accused Products
24 in an infringing manner, providing a mechanism through which third parties may infringe the '408
25 Patent, and by advertising and promoting the use of the '408 Accused Products in an infringing
26 manner, and distributing guidelines and instructions to third parties on how to use the '408 Accused
27 Products in an infringing manner. *See, e.g.*, QualysGuard Web Application Security presentation,
28

1 attached hereto as Exhibit 8; [https://blog.thousandeyes.com/efficient-vulnerability-management-](https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/)
2 [qualys/](https://community.qualys.com/community/web-application-scanning), attached hereto as Exhibit 10; [https://community.qualys.com/community/web-application-](https://community.qualys.com/community/web-application-scanning)
3 [scanning](https://community.qualys.com/community/web-application-scanning), attached hereto as Exhibit 11; QualysGuard InfoDay 2014 presentation, attached hereto as
4 Exhibit 12; Securing Public Cloud Infrastructure using Qualys presentation, attached hereto as Exhibit
5 13; Qualys Web Application Scanning Getting Started Guide Version 6.0.1, attached hereto as Exhibit
6 15; <https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17; Integrating
7 Qualys into the Patch and Vulnerability Management Processes presentation, attached hereto as
8 Exhibit 18; Qualys Web Application Firewall Getting Started Guide at 27, attached hereto as Exhibit
9 20.

10 **COUNT IX**

11 **(Direct Infringement of the ‘968 Patent pursuant to 35 U.S.C. § 271(a))**

12 155. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
13 allegations of the preceding paragraphs, as set forth above.

14 156. Defendant has infringed and continues to infringe Claims 1-38 of the ‘968 Patent in
15 violation of 35 U.S.C. § 271(a).

16 157. Defendant’s infringement is based upon literal infringement or, in the alternative,
17 infringement under the doctrine of equivalents.

18 158. Defendant’s acts of making, using, importing, selling, and offering for sale infringing
19 products and services has been without the permission, consent, authorization or license of Finjan.

20 159. Defendant’s infringement includes the manufacture, use, sale, importation and offer for
21 sale of Defendant’s products and services that utilize Vulnerability Management, Threat Protection,
22 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
23 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, “the
24 ‘968 Accused Products”).

25 160. The ‘968 Accused Products embody the patented invention of the ‘968 Patent and
26 infringe the ‘968 Patent because they make or use the patented system or perform the patented method
27
28

1 of rule-based scanning of web-based content for exploits written in different programming languages,
 2 by, for example, expressing the exploits as patterns of tokens or using a parse tree.

3 161. To the extent the '968 Accused Products use a system that includes modules,
 4 components or software owned by third parties, the '968 Accused Products still infringe the '968
 5 Patent because Defendant is vicariously liable for the use of the patented system by controlling the
 6 entire system and deriving a benefit from the use of every element of the entire system. Similarly, to
 7 the extent Defendant's customers perform a step or steps of the patented method or the '968 Accused
 8 Products incorporate third parties' modules, components or software that perform one or more patented
 9 steps, Defendant's '968 Accused Products still infringe the '968 Patent because the '968 Accused
 10 Products condition receipt by the third parties of a benefit upon performance of a step or steps of the
 11 patented method and establish the manner or timing of that performance.

12 162. The '968 Accused Products include policy-based cache managers that scan and securely
 13 store internet traffic:

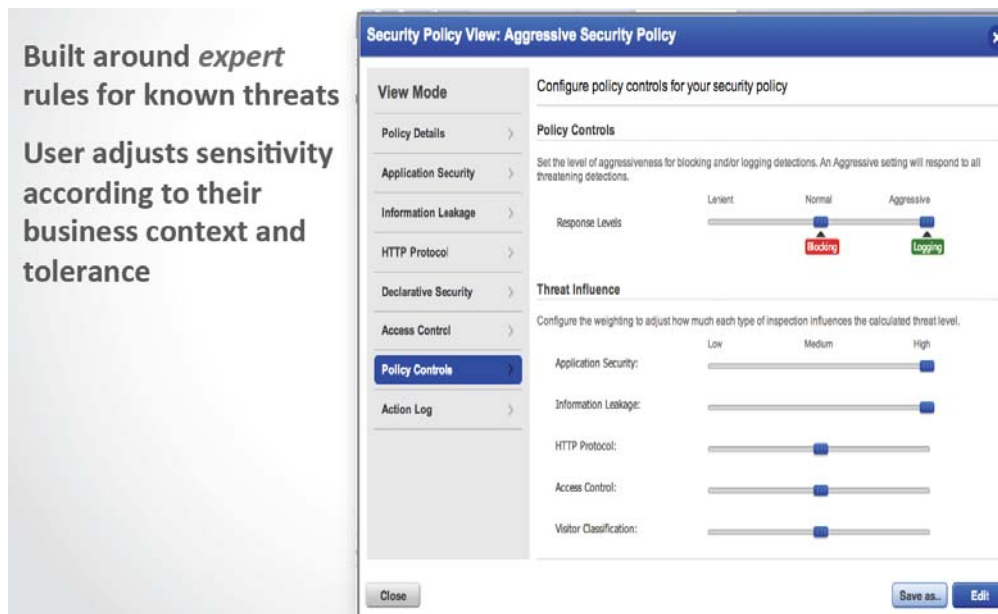


25 Qualys Cloud Platform datasheet at 2, attached hereto as Exhibit 22.



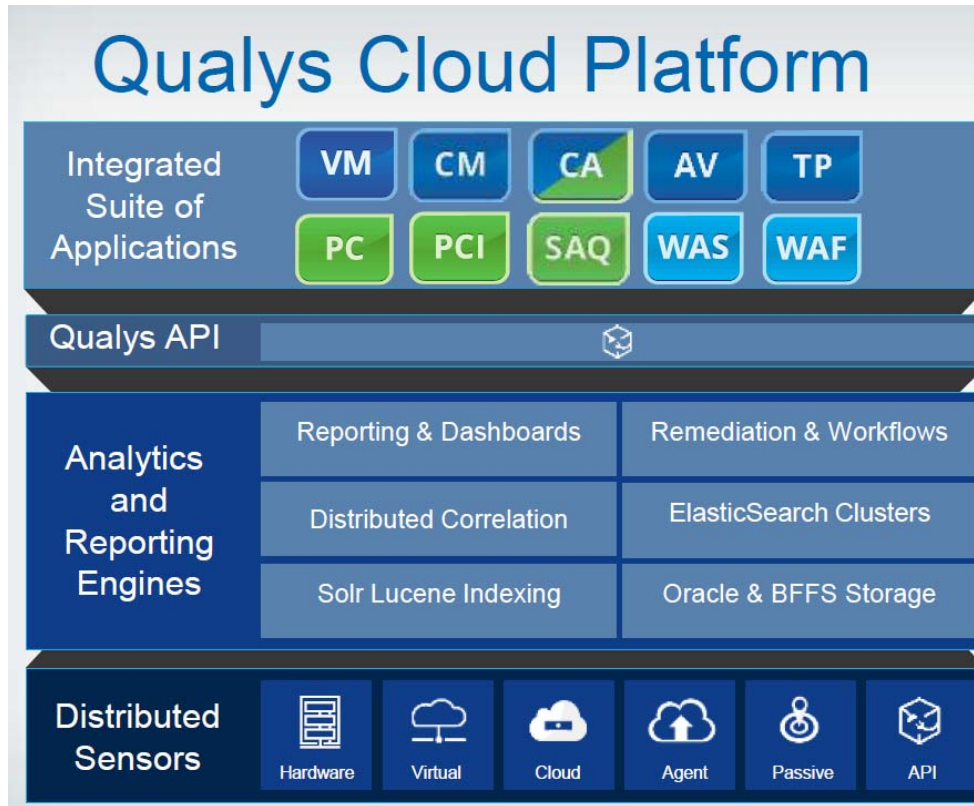
Qualys Cloud Platform datasheet at 3, attached hereto as Exhibit 22.

163. The '968 Accused Products use rules for managing known threats that provide policy-based cache managers:



QualysGuard Web Application Security presentation at 33, attached hereto as Exhibit 8.

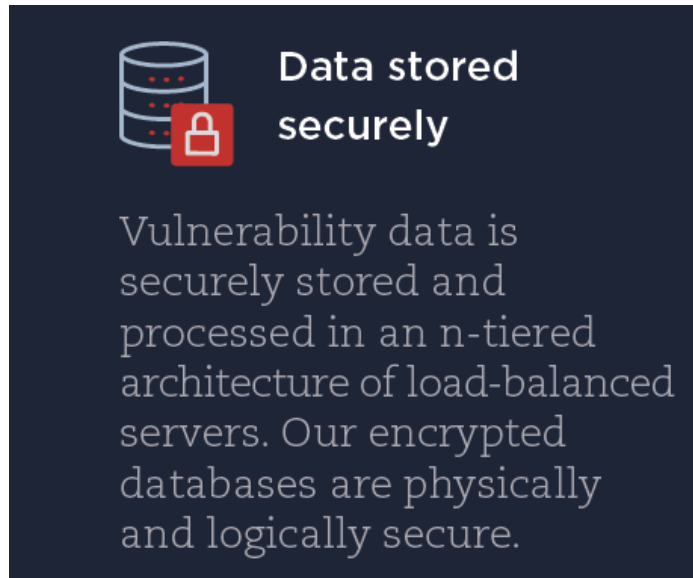
164. The '968 Accused Products also use web Application Filter (WAF) and Web Application Scanner (WAS) to apply and enforce rules and policies:



14 Securing Public Cloud Infrastructure using Qualys presentation at 12, attached hereto as Exhibit 13.

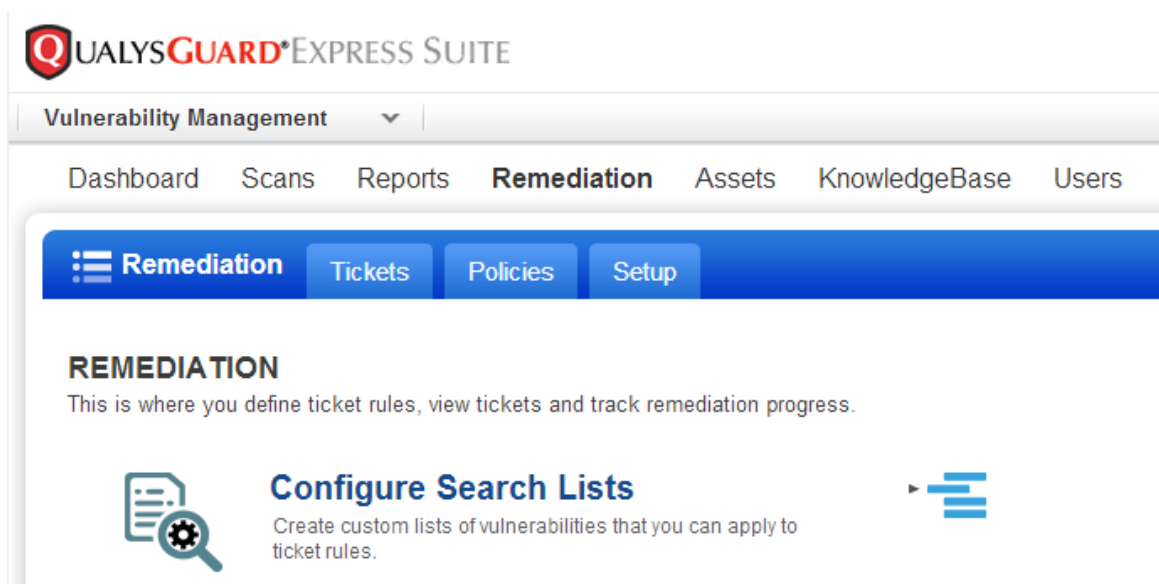
15 165. The '968 Accused Products include a memory storing a cache of digital content, a
 16 plurality of policies, and a policy index to the cache contents, the policy index including entries that
 17 relate cache content and policies by indicating cache content that is known to be allowable relative to a
 18 given policy, for each of a plurality of policies.

19 166. The '968 Accused Products securely store scanned data. Further, Qualys documents
 20 confirm that the stored data are physically and logically secured in an n-tiered architecture of load
 21 balanced servers:



10 Qualys Cloud Platform datasheet at 3, attached hereto as Exhibit 22.

11 167. The '968 Accused Products come with a policy-based ticketing module including
12 entries that relate cached content and policies:
13



23 Figure 4: Qualys remediation module

Each discovered vulnerability has a risk level associated with it. These risk levels are calculated using a combination of Criticality of an asset (1 through 5, see table 1) and a severity assigned by QualysGuard (1 through 5, according to Qualys Severity Levels). See the table below for detailed information about the risks associated with vulnerabilities:

	Vulnerability Severity 1	Vulnerability Severity 2	Vulnerability Severity 3	Vulnerability Severity 4	Vulnerability Severity 5
Asset Criticality 1	Slight	Slight	Slight	Low	Medium
Asset Criticality 2	Slight	Slight	Low	Medium	Medium
Asset Criticality 3	Slight	Low	Low	Medium	High
Asset Criticality 4	Slight	Low	Medium	High	High
Asset Criticality 5	Low	Medium	High	High	High

Table 2: Calculation of the risk for confirmed vulnerabilities

Our Information Security standards set the following remediation targets:

No.	Risk Level	Risk Rating	Remediation Target
1	High Risk vulnerabilities	25 – 100	30 days
2	Medium Risk vulnerabilities	10 – 25	60 days
3	Low Risk vulnerabilities	5 – 10	90 days
4	Slight Risk vulnerabilities	1 – 5	120 days

Table 3: Remediation targets

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

168. The ‘968 Accused Products investigate and remediate vulnerabilities using analytics and reporting engines:

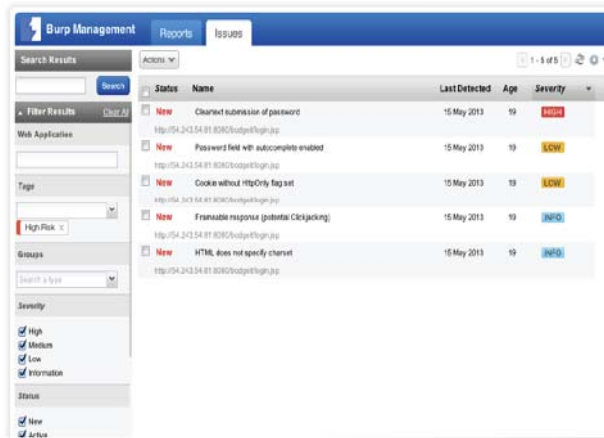
Analytics and Reporting Engines	Reporting & Dashboards	Remediation & Workflows
	Distributed Correlation	ElasticSearch Clusters
	Solr Lucene Indexing	Oracle & BFFS Storage

Securing Public Cloud Infrastructure using Qualys presentation at 12, attached hereto as Exhibit 13.

169. The ‘968 Accused Products store policy index (high/low risk) data including entries that relate cache content and policies:

Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes



QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.

170. The ‘968 Accused Products include a content scanner (e.g., network scanners), communicatively coupled with memory, for scanning a digital content received, to derive a corresponding content profile to protect against vulnerabilities and are coupled with memory in order to be processed:

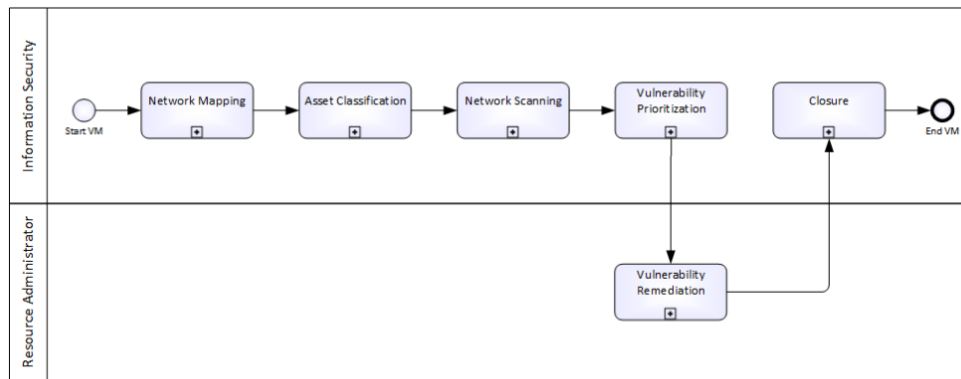
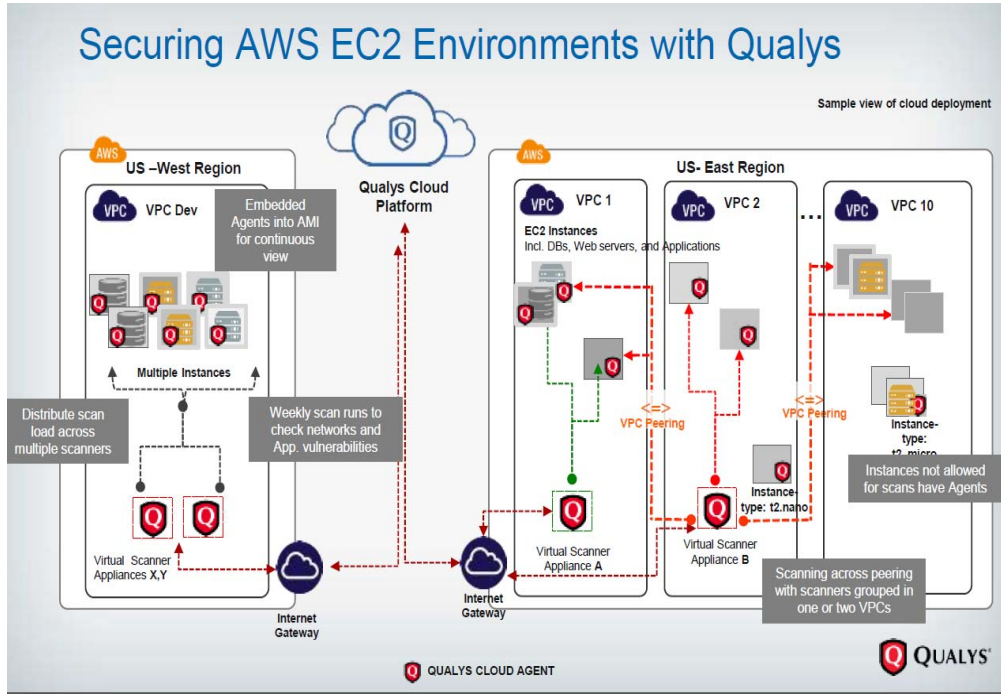


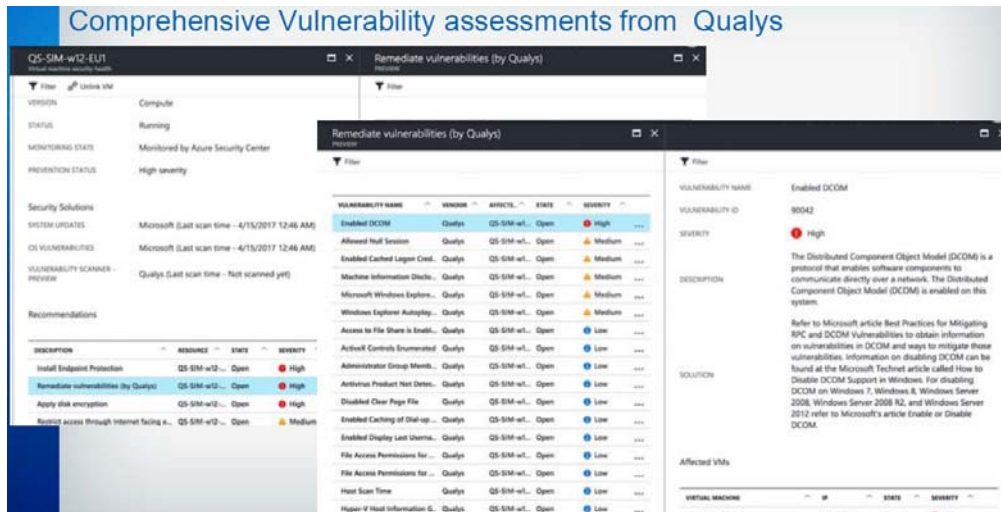
Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

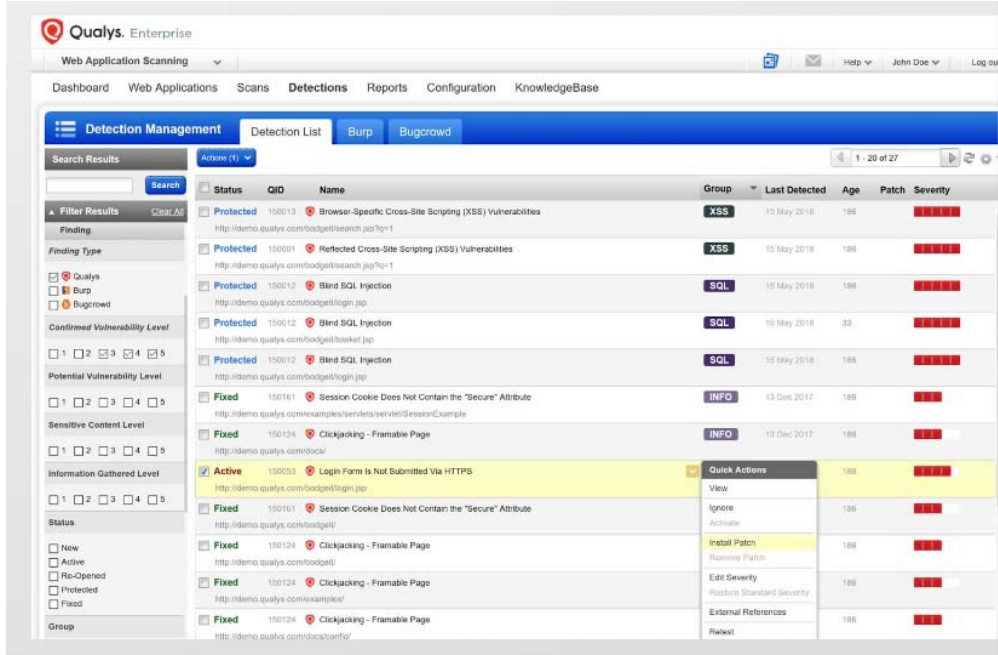
- ✓ Qualys AssetView to get visibility from the rich data collection from EC2 Connector, sensors – Scanner Appliances and Cloud Agents
- ✓ Maintaining the same processes and practices by utilizing Qualys across On Premise, Cloud, incorporating Cloud Aware features to handle ephemeral/elastic cloud workloads
- ✓ Edge servers scanned via Qualys Perimeter Internet Scanners



Securing Public Cloud Infrastructure using Qualys presentation at 29, attached hereto as Exhibit 13.



Securing Public Cloud Infrastructure using Qualys presentation at 37, attached hereto as Exhibit 13.



<https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16.

171. The '968 Accused Products include a content evaluator, communicatively coupled with memory, for determining whether a given digital content is allowable relative to a given policy, based on the content profile, the results of which are saved as entries in the policy index.

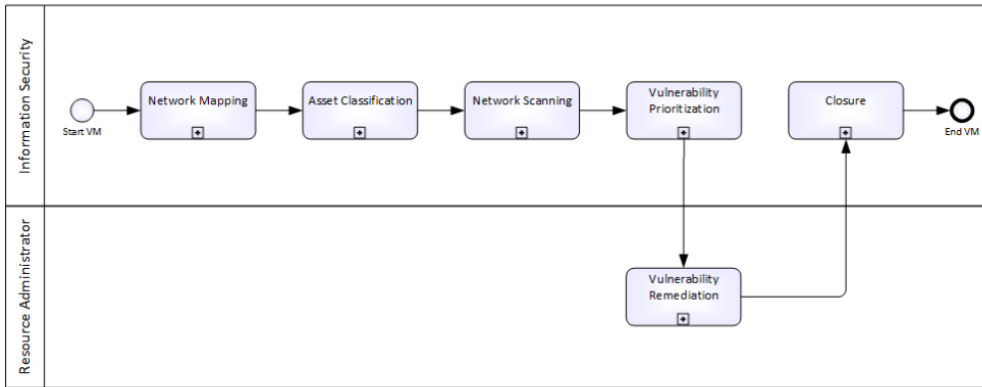


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

Each discovered vulnerability has a risk level associated with it. These risk levels are calculated using a combination of Criticality of an asset (1 through 5, see table 1) and a severity assigned by QualysGuard (1 through 5, according to Qualys Severity Levels). See the table below for detailed information about the risks associated with vulnerabilities:

	Vulnerability Severity 1	Vulnerability Severity 2	Vulnerability Severity 3	Vulnerability Severity 4	Vulnerability Severity 5
Asset Criticality 1	Slight	Slight	Slight	Low	Medium
Asset Criticality 2	Slight	Slight	Low	Medium	Medium
Asset Criticality 3	Slight	Low	Low	Medium	High
Asset Criticality 4	Slight	Low	Medium	High	High
Asset Criticality 5	Low	Medium	High	High	High

Table 2: Calculation of the risk for confirmed vulnerabilities

Our Information Security standards set the following remediation targets:

No.	Risk Level	Risk Rating	Remediation Target
1	High Risk vulnerabilities	25 – 100	30 days
2	Medium Risk vulnerabilities	10 – 25	60 days
3	Low Risk vulnerabilities	5 – 10	90 days
4	Slight Risk vulnerabilities	1 – 5	120 days

Table 3: Remediation targets

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

172. The ‘968 Accused Products evaluate information about system vulnerabilities relative to a given policy by using virtual scanner appliances and share it with multiple users:

The Burp Management feature gives you a way to store the findings discovered by the Burp Suite scanner with those discovered by WAS and share this information with multiple users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not available to Express Lite users.)

To get started click the Burp option on the top menu and go to Burp > Reports, then click Import and we’ll walk you through the steps. Your issues list shows imported Burp issues.

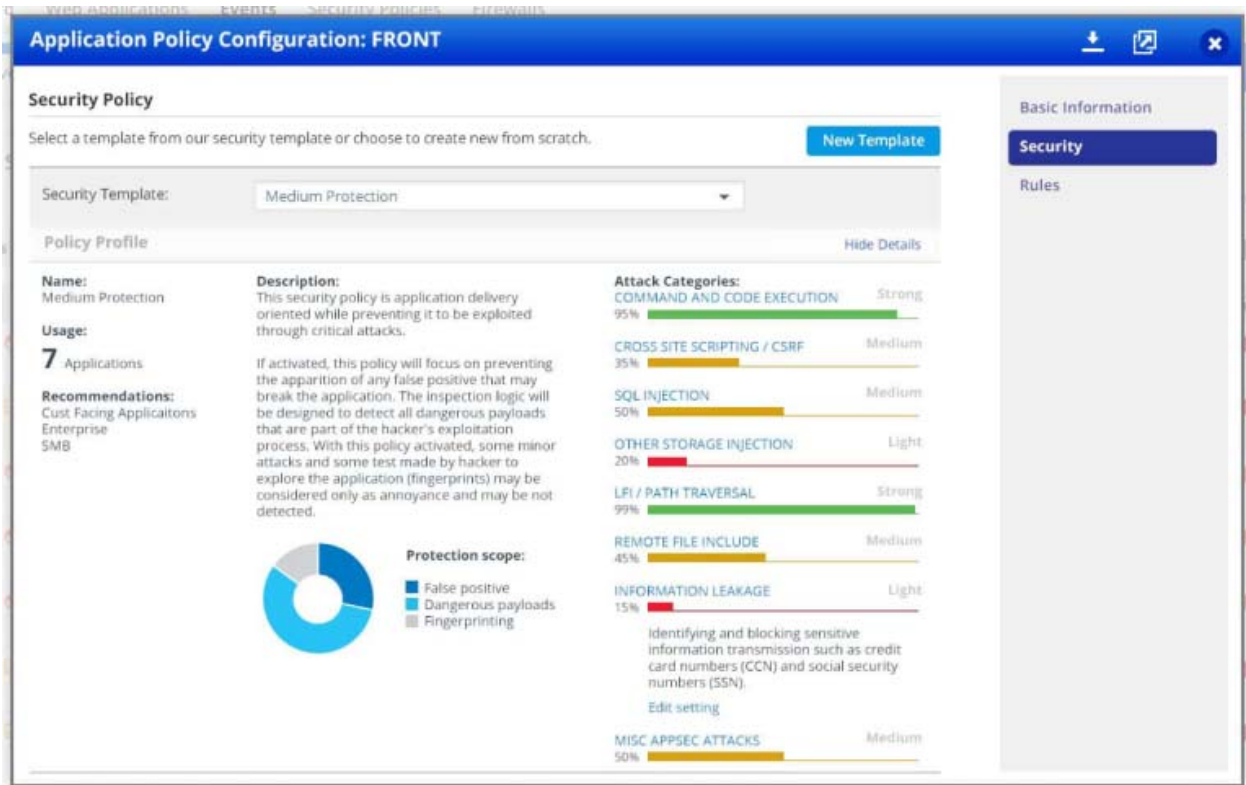


Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 20, attached hereto as Exhibit 15.

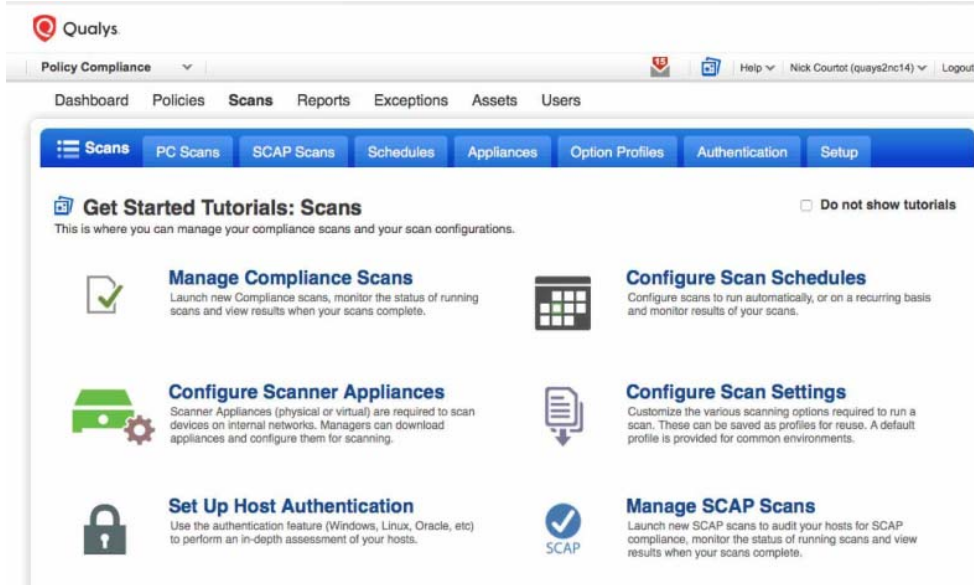


Securing Public Cloud Infrastructure using Qualys presentation at 34, attached hereto as Exhibit 13.

173. The '968 Accused Products use Policy Compliance to compare application security profiles to the security policies, evaluate content profiles, and the results are saved as entries in the policy index:



<https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16.



<https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes

Status	Name	Last Detected	Age	Severity
New	Cleartext submission of password	15 May 2013	19	High
New	Password field with autocomplete enabled	15 May 2013	19	Low
New	Cookie without HttpOnly flag set	15 May 2013	19	Low
New	Framable response (potential Clickjacking)	15 May 2013	19	Info
New	HTML does not specify charset	15 May 2013	19	Info

QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.

174. Defendant’s infringement of the ‘968 Patent has injured Finjan in an amount to be proven at trial, but not less than a reasonable royalty. Additionally, as a result of Defendant’s unlawful activities, Finjan has suffered and will continue to suffer irreparable harm for which there is no adequate remedy at law. Finjan and Defendant compete in the security software space, and Finjan is actively engaged in licensing its patent portfolio. Defendant’s continued infringement of the ‘968

1 Patent causes harm to Finjan in the form of price erosion, loss of goodwill, damage to reputation, loss
2 of business opportunities, inadequacy of money damages, and direct and indirect competition.
3 Monetary damages are insufficient to compensate Finjan for these harms, and thus Finjan is entitled to
4 preliminary and/or permanent injunctive relief.

5 175. Defendant has been long-aware of Finjan's patents, including the '968 Patent, and
6 continued its unauthorized infringing activity despite this knowledge. As discussed above, Finjan
7 actively and diligently attempted to engage in good faith negotiations with Defendant for nearly three
8 years regarding Defendant's infringement of Finjan's Asserted Patents. Even after being shown that
9 its products infringe Finjan's patents, including the '968 Patent, on information and belief Defendant
10 made no effort to avoid infringement. Instead, Defendant continued to incorporate its infringing
11 technology into additional products, such as those identified in this complaint. All of these actions
12 demonstrate Defendant's blatant and egregious disregard for Finjan's patent rights.

13 176. Despite its knowledge of Finjan's patent portfolio and Asserted Patents, and its specific
14 knowledge of its own infringement, Defendant continued to sell the '968 Accused Products in
15 complete and reckless disregard of Finjan's patent rights. As such, Defendant acted recklessly,
16 willfully, wantonly, and deliberately engaged in acts of infringement of the '968 Patent, justifying an
17 award to Finjan of increased damages under 35 U.S.C. § 284, and attorneys' fees and costs incurred
18 under 35 U.S.C. § 285.

19 **COUNT X**

20 **(Indirect Infringement of the '968 Patent pursuant to 35 U.S.C. § 271(b))**

21 177. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
22 allegations of the preceding paragraphs, as set forth above.

23 178. In addition to directly infringing the '968 Patent, Defendant knew or was willfully blind
24 to the fact that it was inducing infringement of at least Claims 13-22 and 25-31 of the '968 Patent
25 under 35 U.S.C. § 271(b) by instructing, directing and requiring its customers to perform the steps of
26 the method claims of the '968 Patent, either literally or under the doctrine of equivalents.

1 179. Additionally, Defendant knew or was willfully blind to the fact that it was inducing
2 infringement of at least Claims 13-22 and 25-31 of the '968 Patent under 35 U.S.C. § 271(b) by
3 instructing, directing and requiring its developers to perform the steps of the method claims of the '968
4 Patent, either literally or under the doctrine of equivalents.

5 180. Defendant knowingly and actively aided and abetted the direct infringement of the '968
6 Patent by instructing and encouraging its customers and developers to use the '968 Accused Products.
7 Such instructions and encouragement included advising third parties to use the '968 Accused Products
8 in an infringing manner, providing a mechanism through which third parties may infringe the '968
9 Patent, and by advertising and promoting the use of the '968 Accused Products in an infringing
10 manner, and distributing guidelines and instructions to third parties on how to use the '968 Accused
11 Products in an infringing manner. *See, e.g.*, QualysGuard Web Application Security presentation,
12 attached hereto as Exhibit 8; [https://blog.thousandeyes.com/efficient-vulnerability-management-](https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/)
13 [qualys/](https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/), attached hereto as Exhibit 10; Securing Public Cloud Infrastructure using Qualys presentation,
14 attached hereto as Exhibit 13; Qualys Web Application Scanning Getting Started Guide Version 6.0.1,
15 attached hereto as Exhibit 15; <https://www.qualys.com/apps/web-app-firewall/>, attached hereto as
16 Exhibit 16; <https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

17 **COUNT XI**

18 **(Direct Infringement of the '731 Patent pursuant to 35 U.S.C. § 271(a))**

19 181. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
20 allegations of the preceding paragraphs, as set forth above.

21 182. Defendant has infringed and continues to infringe Claims 1-22 of the '731 Patent in
22 violation of 35 U.S.C. § 271(a).

23 183. Defendant's infringement is based upon literal infringement or, in the alternative,
24 infringement under the doctrine of equivalents.

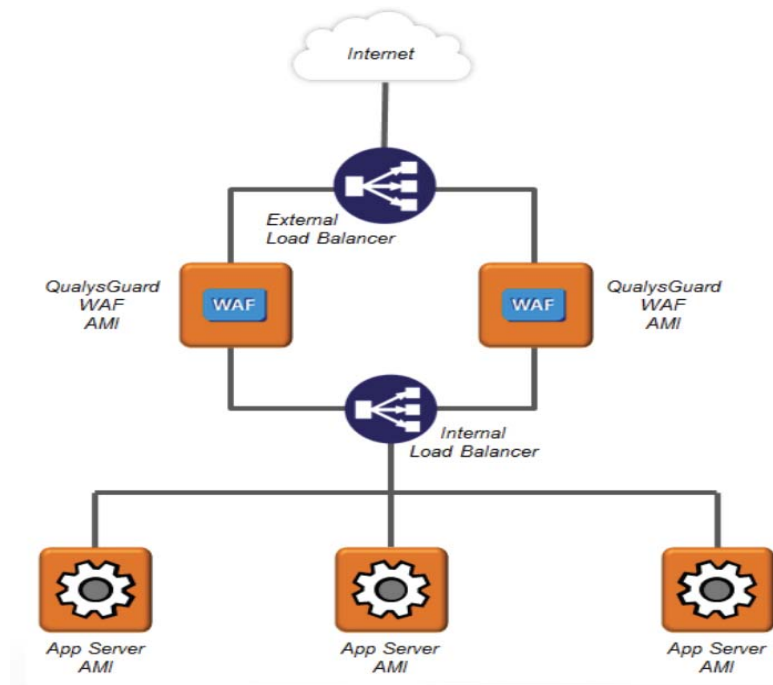
25 184. Defendant's acts of making, using, importing, selling, and offering for sale infringing
26 products and services have been without the permission, consent, authorization or license of Finjan.

1 185. Defendant’s infringement includes the manufacture, use, sale, importation and offer for
2 sale of Defendant’s products and services that utilize Vulnerability Management, Threat Protection,
3 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
4 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, “the
5 ‘731 Accused Products”).

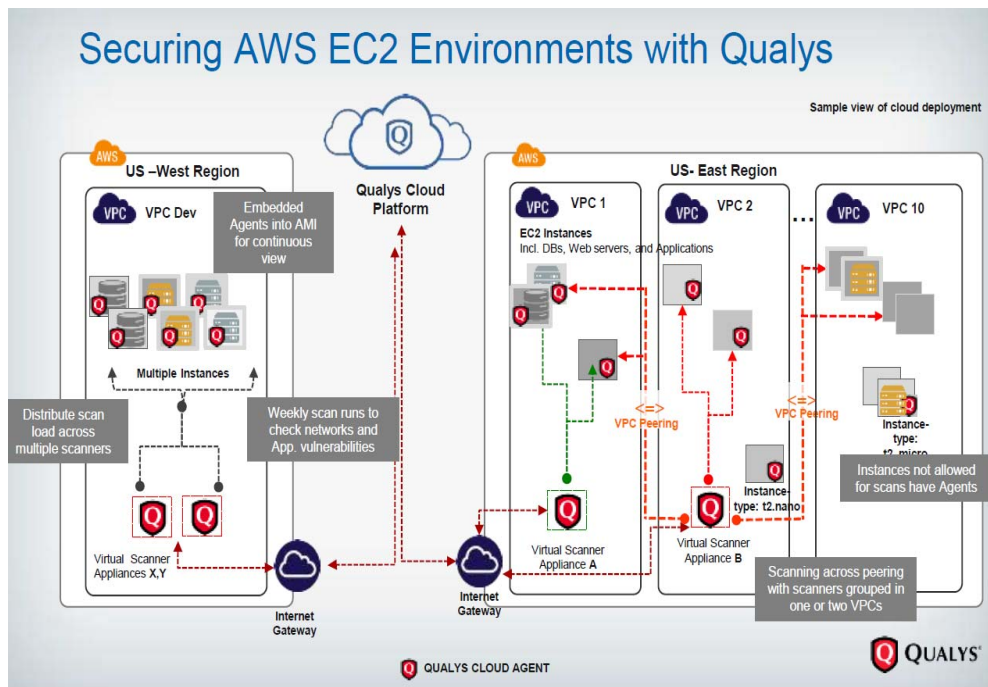
6 186. The ‘731 Accused Products embody the patented invention of the ‘731 Patent and
7 infringe the ‘731 Patent because they make or use the patented system or perform the patented method
8 of rule-based scanning of web-based content for exploits written in different programming languages,
9 by, for example, expressing the exploits as patterns of tokens or using a parse tree.

10 187. To the extent the ‘731 Accused Products use a system that includes modules,
11 components or software owned by third parties, the ‘731 Accused Products still infringe the ‘731
12 Patent because Defendant is vicariously liable for the use of the patented system by controlling the
13 entire system and deriving a benefit from the use of every element of the entire system. Similarly, to
14 the extent Defendant’s customers perform a step or steps of the patented method or the ‘731 Accused
15 Products incorporate third parties’ modules, components or software that perform one or more patented
16 steps, Defendant’s ‘731 Accused Products still infringe the ‘731 Patent because the ‘731 Accused
17 Products condition receipt by the third parties of a benefit upon performance of a step or steps of the
18 patented method and establish the manner or timing of that performance.

19 188. The ‘731 Accused Products are computer gateways for intranets of computers.
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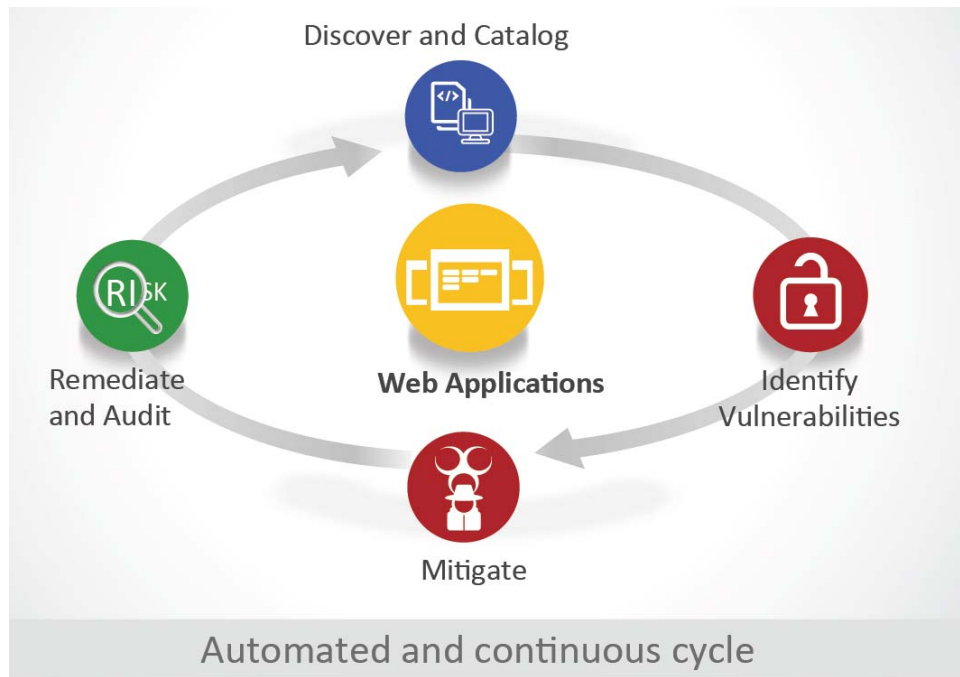


QualysGuard Web Application Security presentation at 30, attached hereto as Exhibit 8.



- ✓ Qualys AssetView to get visibility from the rich data collection from EC2 Connector, sensors – Scanner Appliances and Cloud Agents
- ✓ Maintaining the same processes and practices by utilizing Qualys across On Premise, Cloud, incorporating Cloud Aware features to handle ephemeral/elastic cloud workloads
- ✓ Edge servers scanned via Qualys Perimeter Internet Scanners

1 Securing Public Cloud Infrastructure using Qualys presentation at 28-29, attached hereto as Exhibit 13.



14 QualysGuard Web Application Security presentation at 5, attached hereto as Exhibit 8.

15 189. The '731 Accused Products include a scanner for scanning incoming files from the
16 Internet and deriving security profiles for the incoming files, where each of the security profiles
17 includes a list of computer commands that a corresponding incoming file is programmed to perform.

- 1 ✓ Secure very large web apps with progressive
- 2 scanning, which lets you scan in incremental
- 3 stages and bypass restrictions preventing you
- 4 from scanning an entire app in one scan window

- 5 ✓ Detect OWASP Top 10 risks such as SQL injection,
- 6 cross-site scripting (XSS), cross-site request
- 7 forgery (CSRF) and unvalidated redirection

- 8 ✓ Test IoT services and mobile apps as well as API-
- 9 based business-to-business connectors, with
- 10 Qualys WAS' SOAP and REST API scanning
- 11 capabilities

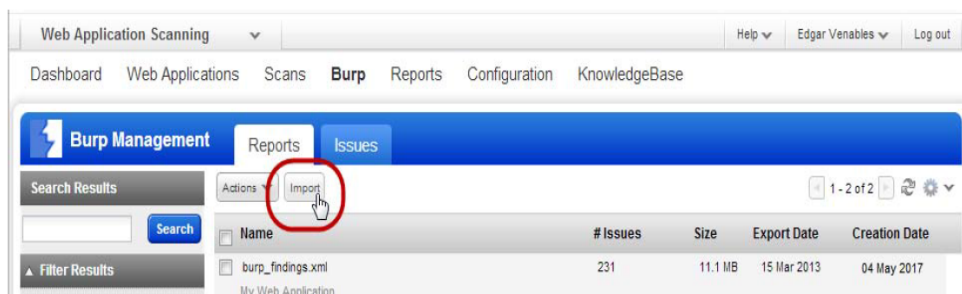
- 12 ✓ Achieve maximum scan coverage with
- 13 authenticated scanning, including advanced
- 14 scripting using Selenium, the open source browser
- 15 automation system for web app testing

- 16 ✓ Set scans' exact start time and duration with
- 17 powerful scheduling features

18 <https://www.qualys.com/apps/web-app-scanning/>, attached hereto as Exhibit 19.

19 The Burp Management feature gives you a way to store the findings discovered by the Burp
 20 Suite scanner with those discovered by WAS and share this information with multiple
 21 users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not
 22 available to Express Lite users.)

23 To get started click the Burp option on the top menu and go to Burp > Reports, then click
 24 Import and we'll walk you through the steps. Your issues list shows imported Burp issues.

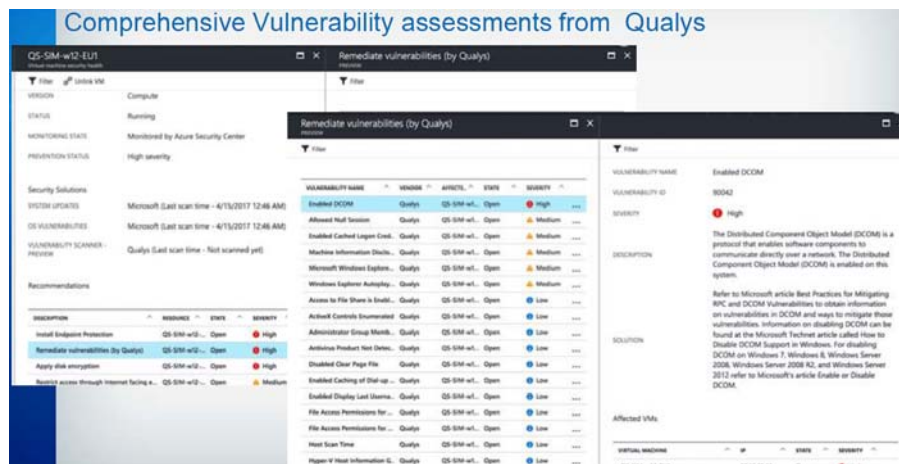


25 Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 20, attached hereto as
 26 Exhibit 15.

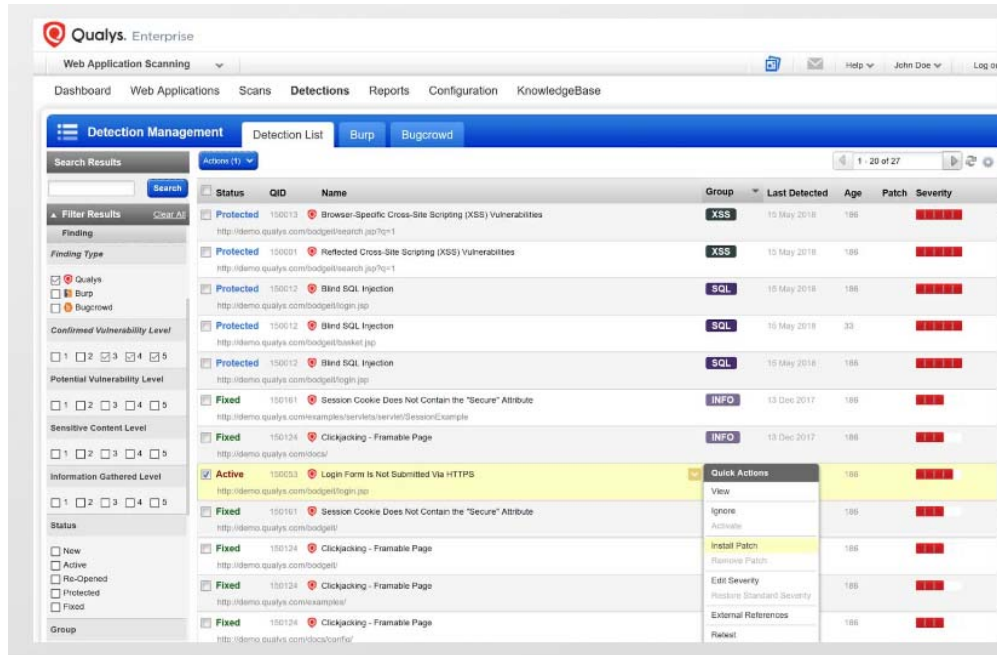
190. The '731 Accused Products perform code scans and save lists of computer commands the incoming files are programmed to perform in the security profiles:

Code scans	STEP	METHOD	END POINT
Build Complete	Run EC2 Connector to sync. Assets and update dynamic tags	POST	/qps/rest/2.0/run/am/awssassetdataconnector/{id}
Create test Instances	Update Authentication	POST	/api/2.0/fo/auth/unix/'action=update&ids=[]&ips[]=&echo_request=1'
Launch Scans	Launch Scans for the specific Tag	POST	api/2.0/fo/scan/'action=launch&scan_title={}&connector_name={}&scanner_name={}&target_from=tags&tag_set_include={id}
Parse results and generate eMail	Launch Reports on a pre-defined template	POST	/api/2.0/fo/report/'{action: 'launch', 'report_refs': 'scan/{id}', 'output_format': 'xml', 'template_id': {id}, 'report_type': 'Scan'}
Resolve Issues	Fetch Scan Results	GET	/api/2.0/fo/report/'{action=fetch&id={id}}

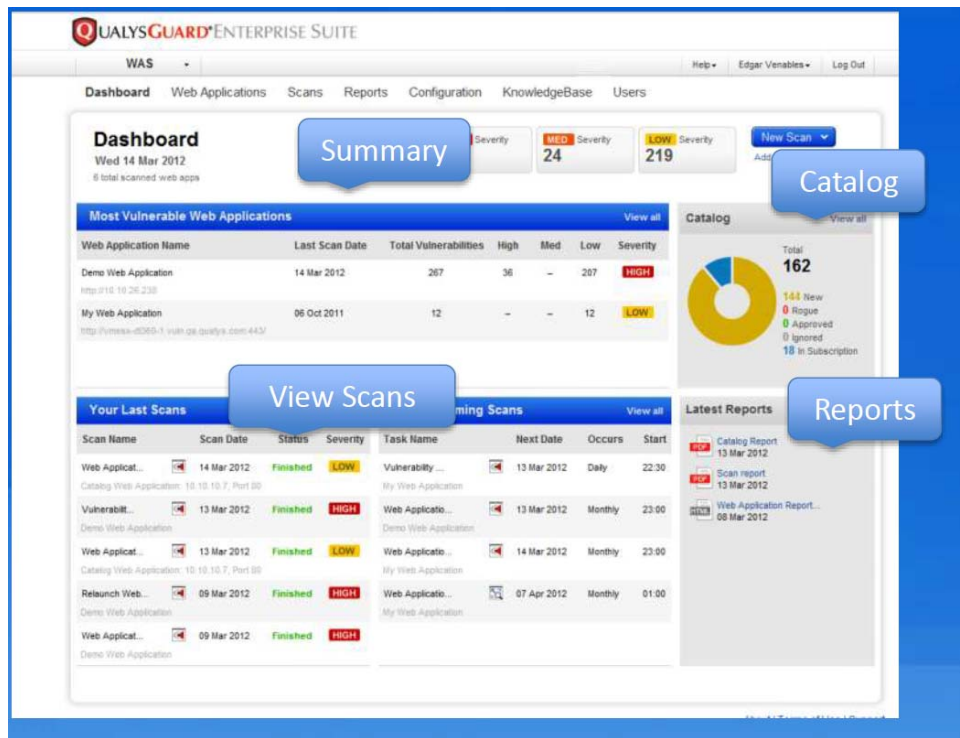
Securing Public Cloud Infrastructure using Qualys presentation at 31, attached hereto as Exhibit 13.



Securing Public Cloud Infrastructure using Qualys presentation at 37, attached hereto as Exhibit 13.



<https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16.



QualysGuard InfoDay 2014 presentation at 29, attached hereto as Exhibit 12.

191. The '731 Accused Products come with a policy-based ticketing module including entries that relate cache content and policies:

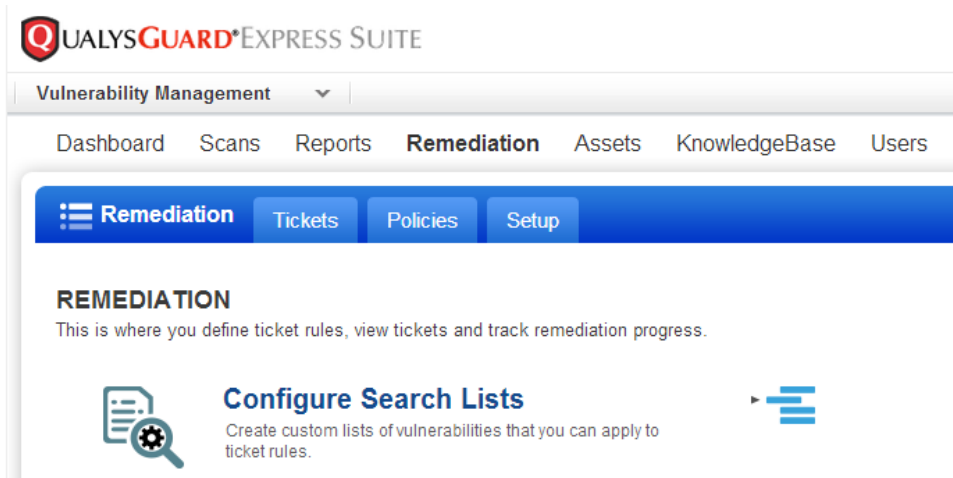


Figure 4: Qualys remediation module

Each discovered vulnerability has a risk level associated with it. These risk levels are calculated using a combination of Criticality of an asset (1 through 5, see table 1) and a severity assigned by QualysGuard (1 through 5, according to Qualys Severity Levels). See the table below for detailed information about the risks associated with vulnerabilities:

	Vulnerability Severity 1	Vulnerability Severity 2	Vulnerability Severity 3	Vulnerability Severity 4	Vulnerability Severity 5
Asset Criticality 1	Slight	Slight	Slight	Low	Medium
Asset Criticality 2	Slight	Slight	Low	Medium	Medium
Asset Criticality 3	Slight	Low	Low	Medium	High
Asset Criticality 4	Slight	Low	Medium	High	High
Asset Criticality 5	Low	Medium	High	High	High

Table 2: Calculation of the risk for confirmed vulnerabilities

Our Information Security standards set the following remediation targets:

No.	Risk Level	Risk Rating	Remediation Target
1	High Risk vulnerabilities	25 – 100	30 days
2	Medium Risk vulnerabilities	10 – 25	60 days
3	Low Risk vulnerabilities	5 – 10	90 days
4	Slight Risk vulnerabilities	1 – 5	120 days

Table 3: Remediation targets

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

192. The ‘731 Accused Products investigate and remediate vulnerabilities:

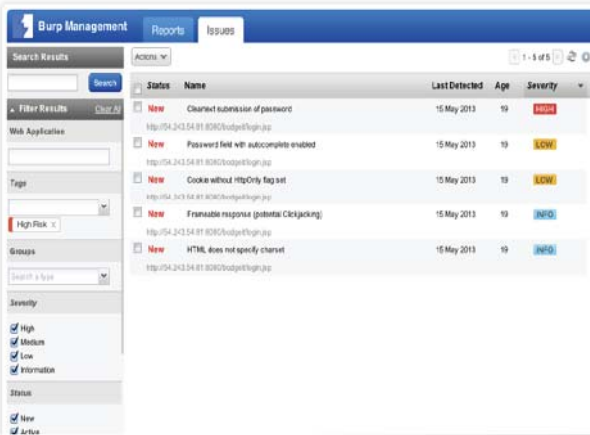
Analytics and Reporting Engines	Reporting & Dashboards	Remediation & Workflows
	Distributed Correlation	ElasticSearch Clusters
	Solr Lucene Indexing	Oracle & BFFS Storage

Securing Public Cloud Infrastructure using Qualys presentation at 12, attached hereto as Exhibit 13.

193. The ‘731 Accused Products store policy index (high/low risk data) including entries that relate cache content and policies:

Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes



QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.

194. The ‘731 Accused Products include a file cache for storing files that have been scanned by a scanner for future access, where each of the stored files is indexed by a file identifier.

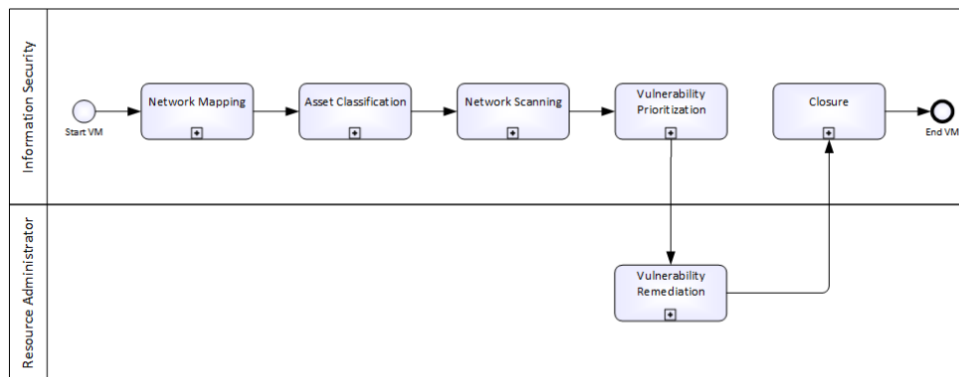


Figure 1: Vulnerability management process

1 <https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as
2 Exhibit 10.

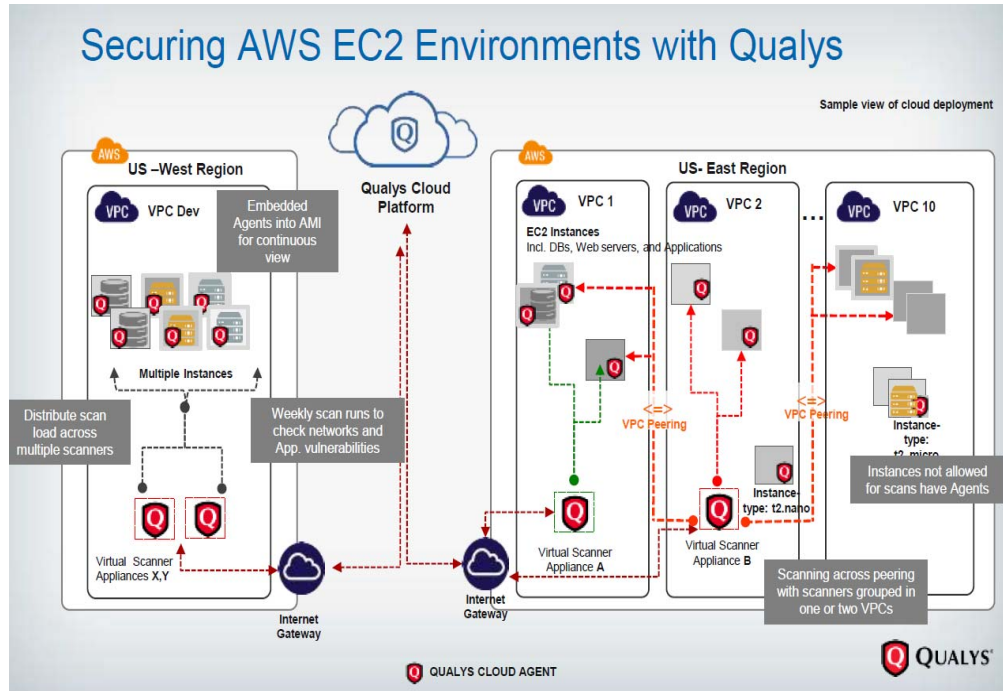
3 195. The '731 Accused Products securely store scanned data in an n-tiered architecture with
4 load balanced servers:



14 Qualys Cloud Platform datasheet at 3, attached hereto as Exhibit 22.

15 196. The '731 Accused Products scan content and derive security profiles:

- 16
- 17 ✓ Qualys AssetView to get visibility from the rich data collection from EC2 Connector, sensors – Scanner Appliances and Cloud Agents
 - 18 ✓ Maintaining the same processes and practices by utilizing Qualys across On Premise, Cloud, incorporating Cloud Aware features to handle ephemeral/elastic cloud workloads
 - 19 ✓ Edge servers scanned via Qualys Perimeter Internet Scanners
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12 Securing Public Cloud Infrastructure using Qualys presentation at 29, attached hereto as Exhibit 13.

13 197. The '731 Accused Products perform a deep analysis of the configuration of SSL on the
14 host. The Hostname scan is saved, and a cached scan is used if available:

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```
<#
.SYNOPSIS
Script to check the SSL configuration of URLs contained in a file, using the www.ssllabs.com API

.DESCRPTION
Script will take a text file containing a list of URLs, and submit them to the
"Qualys SSL Labs Server Test" to perform a deep analysis of the configuration of SSL on the host.
Hostname and grade saved to CSV, JSON data for hostname scan saved also.

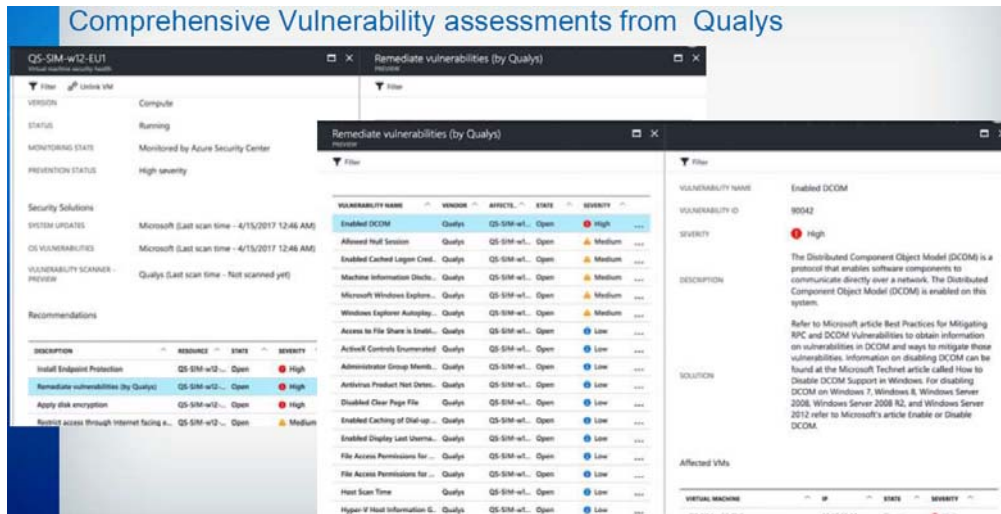
.PARAMETER InputFile
A text file containing one URL per line.

.PARAMETER Cache
Use a cached scan if available.

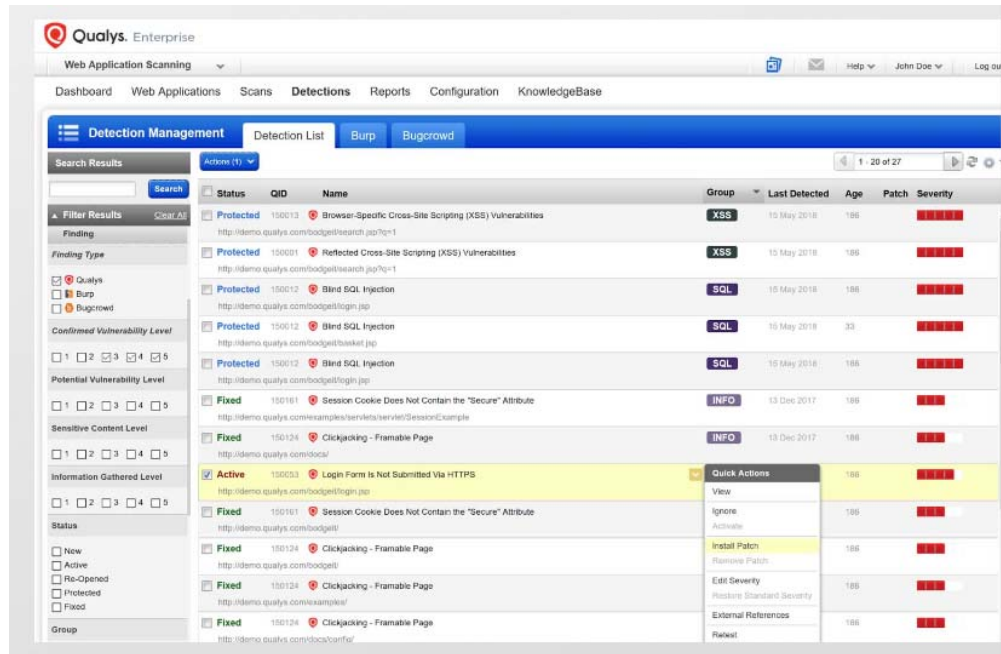
.PARAMETER Publish
Publish scan results to www.ssllabs.com

.PARAMETER MaxAge
Maximum age of a scan in hours, if pulling from cache. The default is 168 (1 week). Only used if
Cache is specified.
```

24
25 <https://www.musingitoutloud.com/powershell-ssl-labs/>, attached hereto as Exhibit 21.



Securing Public Cloud Infrastructure using Qualys presentation at 37, attached hereto as Exhibit 13.



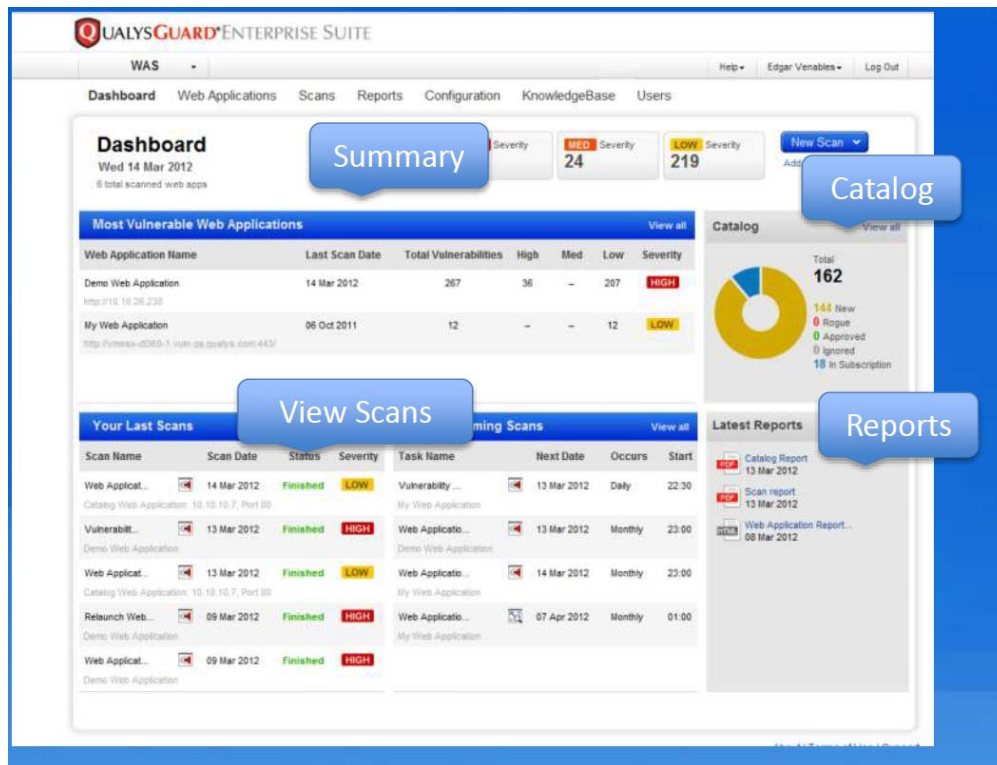
<https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16.

198. The '731 Accused Products include a security profile cache for storing the security profiles derived by the scanner, where each of the security profiles is indexed in the security profile cache by a file identifier associated with a corresponding file stored in the file cache.



Qualys Cloud Platform datasheet at 3, attached hereto as Exhibit 22.

199. The ‘731 Accused Products’ security profiles are indexed using a file identifier:



QualysGuard InfoDay 2014 presentation at 29, attached hereto as Exhibit 12.

200. The ‘731 Accused Products’ perform a deep analysis of the configuration of SSL on the host. The scan is saved, and a cached scan is used if available:

```

1  <#
2  .SYNOPSIS
3  Script to check the SSL configuration of URLs contained in a file, using the www.ssllabs.com API
4
5  .DESCRIPTION
6  Script will take a text file containing a list of URLs, and submit them to the
7  "Qualys SSL Labs Server Test" to perform a deep analysis of the configuration of SSL on the host.
8  Hostname and grade saved to CSV, JSON data for hostname scan saved also.
9
10 .PARAMETER InputFile
11 A text file containing one URL per line.
12
13 .PARAMETER Cache
14 Use a cached scan if available.
15
16 .PARAMETER Publish
17 Publish scan results to www.ssllabs.com
18
19 .PARAMETER MaxAge
20 Maximum age of a scan in hours, if pulling from cache. The default is 168 (1 week). Only used if
21 Cache is specified.

```

<https://www.musingitoutloud.com/powershell-ssl-labs/>, attached hereto as Exhibit 21.

201. The '731 Accused Products include a security policy cache for storing security policies for intranet computers within the intranet, the security policies each including a list of restrictions for files that are transmitted to a corresponding subset of the intranet computers.

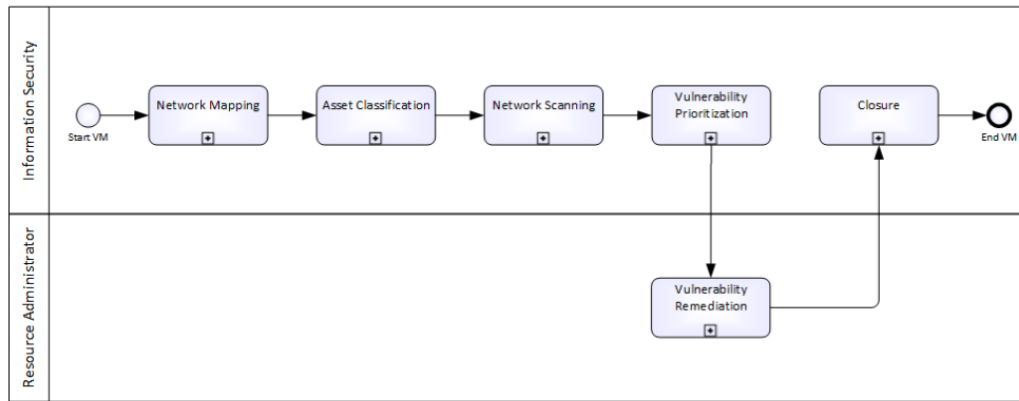


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

Each discovered vulnerability has a risk level associated with it. These risk levels are calculated using a combination of Criticality of an asset (1 through 5, see table 1) and a severity assigned by QualysGuard (1 through 5, according to Qualys Severity Levels). See the table below for detailed information about the risks associated with vulnerabilities:

	Vulnerability Severity 1	Vulnerability Severity 2	Vulnerability Severity 3	Vulnerability Severity 4	Vulnerability Severity 5
Asset Criticality 1	Slight	Slight	Slight	Low	Medium
Asset Criticality 2	Slight	Slight	Low	Medium	Medium
Asset Criticality 3	Slight	Low	Low	Medium	High
Asset Criticality 4	Slight	Low	Medium	High	High
Asset Criticality 5	Low	Medium	High	High	High

Table 2: Calculation of the risk for confirmed vulnerabilities

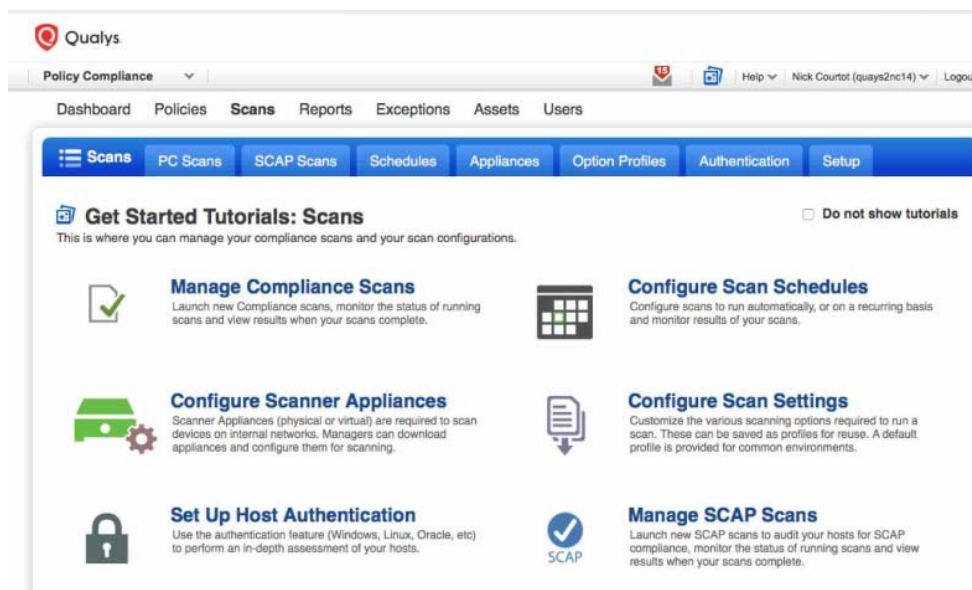
Our Information Security standards set the following remediation targets:

No.	Risk Level	Risk Rating	Remediation Target
1	High Risk vulnerabilities	25 – 100	30 days
2	Medium Risk vulnerabilities	10 – 25	60 days
3	Low Risk vulnerabilities	5 – 10	90 days
4	Slight Risk vulnerabilities	1 – 5	120 days

Table 3: Remediation targets

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

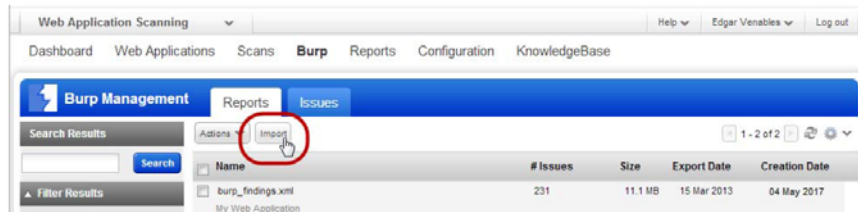
202. The ‘731 Accused Products use Policy Compliance to evaluate content profiles, save the results as entries in the policy index, and share it with multiple users.



1 <https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17.

2 The Burp Management feature gives you a way to store the findings discovered by the Burp
3 Suite scanner with those discovered by WAS and share this information with multiple
4 users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not
5 available to Express Lite users.)

6 To get started click the Burp option on the top menu and go to Burp > Reports, then click
7 Import and we'll walk you through the steps. Your issues list shows imported Burp issues.



Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 20, attached hereto as Exhibit 15.

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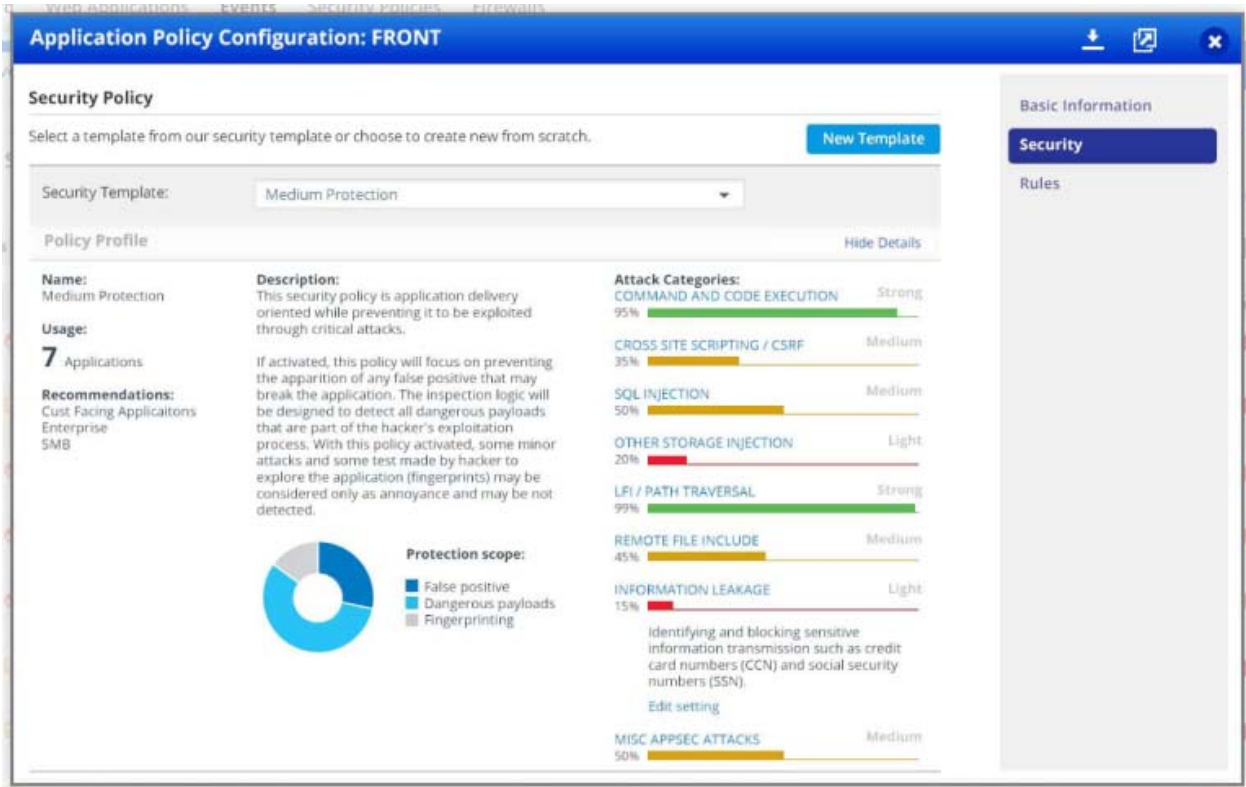
26

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Securing Public Cloud Infrastructure using Qualys presentation at 34, attached hereto as Exhibit 13.

203. The '731 Accused Products compare application security profiles to the security policies:



<https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16.

204. The '731 Accused Products store policy index (high/low risk) data including entries that relate cache content and policies:

Attack Proxy Integration – Phase 1 –Completed!

- **Store and manage**
 - Burp scan data
 - Share safely
- **Act on Burp scan findings**
 - Associate with web app
 - Mark as risk accepted, etc
 - Filter based on attributes

The screenshot shows the 'Burp Management' interface with a table of search results. The table has columns for 'Status', 'Name', 'Last Detected', 'Age', and 'Severity'. The results include:

- Clearnet submission of password (High)
- Password field with autocomplete enabled (LOW)
- Cookie without httpOnly flag set (LOW)
- Framable response (potential Clickjacking) (INFO)
- HTML does not specify charset (INFO)

 The interface also shows filters for 'Web Applications', 'Type', 'HighRisk', 'Groups', 'Severity' (High, Medium, Low, Information), and 'Status' (New, Active).

QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.

1 205. Defendant's infringement of the '731 Patent has injured Finjan in an amount to be
2 proven at trial, but not less than a reasonable royalty. Additionally, as a result of Defendant's unlawful
3 activities, Finjan has suffered and will continue to suffer irreparable harm for which there is no
4 adequate remedy at law. Finjan and Defendant compete in the security software space, and Finjan is
5 actively engaged in licensing its patent portfolio. Defendant's continued infringement of the '731
6 Patent causes harm to Finjan in the form of price erosion, loss of goodwill, damage to reputation, loss
7 of business opportunities, inadequacy of money damages, and direct and indirect competition.
8 Monetary damages are insufficient to compensate Finjan for these harms, and thus Finjan is entitled to
9 preliminary and/or permanent injunctive relief.
10

11 206. Defendant has been long-aware of Finjan's patents, including the '731 Patent, and
12 continued its unauthorized infringing activity despite this knowledge. As discussed above, Finjan
13 actively and diligently attempted to engage in good faith negotiations with Defendant for nearly three
14 years regarding Defendant's infringement of Finjan's Asserted Patents. Even after being shown that
15 its products infringe Finjan's patents, on information and belief Defendant made no effort to avoid
16 infringement. Instead, Defendant continued to incorporate its infringing technology into additional
17 products, such as those identified in this complaint. All of these actions demonstrate Defendant's
18 blatant and egregious disregard for Finjan's patent rights.
19

20 207. Despite its knowledge of Finjan's patent portfolio and Asserted Patents, and its specific
21 knowledge of its own infringement, Defendant continued to sell the '731 Accused Products in
22 complete and reckless disregard of Finjan's patent rights. As such, Defendant acted recklessly,
23 willfully, wantonly, and deliberately engaged in acts of infringement of the '731 Patent, justifying an
24 award to Finjan of increased damages under 35 U.S.C. § 284, and attorneys' fees and costs incurred
25 under 35 U.S.C. § 285.
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COUNT XII**(Indirect Infringement of the '731 Patent pursuant to 35 U.S.C. § 271(b))**

1
2 208. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
3 allegations of the preceding paragraphs, as set forth above.

4 209. In addition to directly infringing the '731 Patent, Defendant knew or was willfully blind
5 to the fact that it was inducing infringement of at least Claims 7-12, 14-16, and 20-21 of the '731
6 Patent under 35 U.S.C. § 271(b) by instructing, directing and requiring its customers to perform the
7 steps of the method claims of the '731 Patent, either literally or under the doctrine of equivalents.

8 210. Additionally, Defendant knew or was willfully blind to the fact that it was inducing
9 infringement of at least Claims 7-12, 14-16, and 20-21 of the '731 Patent under 35 U.S.C. § 271(b) by
10 instructing, directing and requiring its developers to perform the steps of the method claims of the '731
11 Patent, either literally or under the doctrine of equivalents.

12 211. Defendant knowingly and actively aided and abetted the direct infringement of the '731
13 Patent by instructing and encouraging its customers and developers to use the '731 Accused Products.
14 Such instructions and encouragement included advising third parties to use the '731 Accused Products
15 in an infringing manner, providing a mechanism through which third parties may infringe the '731
16 Patent, and by advertising and promoting the use of the '731 Accused Products in an infringing
17 manner, and distributing guidelines and instructions to third parties on how to use the '731 Accused
18 Products in an infringing manner. *See, e.g.*, QualysGuard Web Application Security presentation,
19 attached hereto as Exhibit 8; [https://blog.thousandeyes.com/efficient-vulnerability-management-](https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/)
20 [qualys/](https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/), attached hereto as Exhibit 10; QualysGuard InfoDay 2014 presentation, attached hereto as
21 Exhibit 12; Securing Public Cloud Infrastructure using Qualys presentation, attached hereto as Exhibit
22 13; Qualys Web Application Scanning Getting Started Guide Version 6.0.1, attached hereto as Exhibit
23 15; <https://www.qualys.com/apps/web-app-firewall/>, attached hereto as Exhibit 16;
24 <https://www.qualys.com/apps/policy-compliance/>, attached hereto as Exhibit 17;
25 <https://www.qualys.com/apps/web-app-scanning/>, attached hereto as Exhibit 19;
26 <https://www.musingitoutloud.com/powershell-ssl-labs/>, attached hereto as Exhibit 21.

COUNT XIII

(Direct Infringement of the ‘154 Patent pursuant to 35 U.S.C. § 271(a))

1
2 212. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the
3 allegations of the preceding paragraphs, as set forth above.

4 213. Defendant has infringed and continues to infringe Claims 1-12 of the ‘154 Patent in
5 violation of 35 U.S.C. § 271(a).

6 214. Defendant’s infringement is based upon literal infringement or, in the alternative,
7 infringement under the doctrine of equivalents.

8 215. Defendant’s acts of making, using, importing, selling, and offering for sale infringing
9 products and services have been without the permission, consent, authorization or license of Finjan.

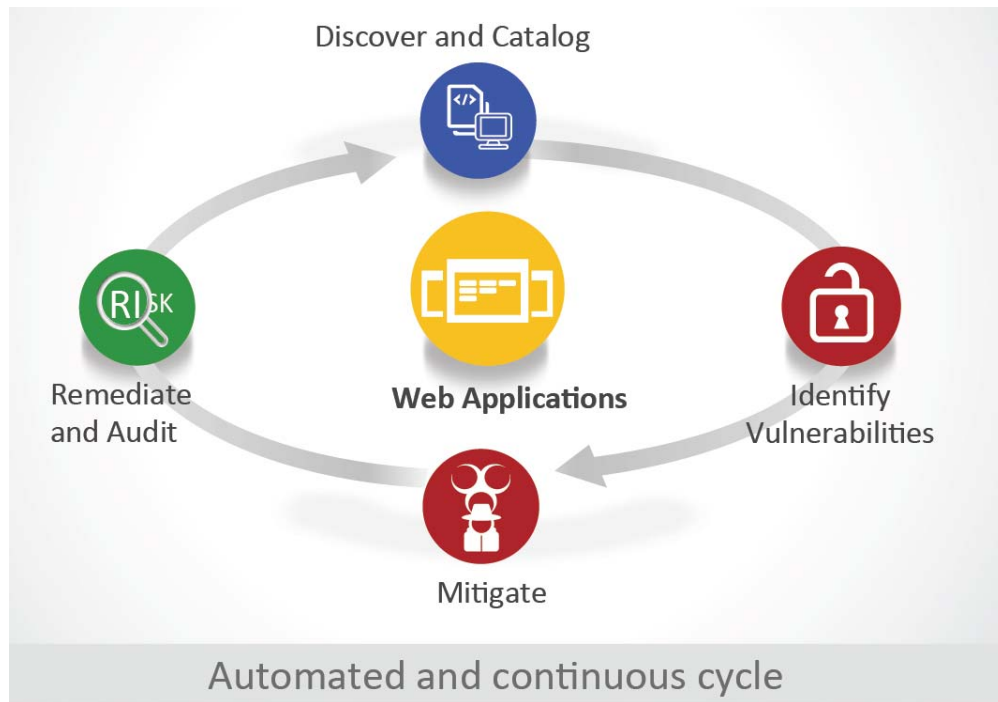
10 216. Defendant’s infringement includes the manufacture, use, sale, importation and offer for
11 sale of Defendant’s products and services that utilize Vulnerability Management, Threat Protection,
12 Continuous Monitoring, Indicators of Compromise, Container Security, Web App Firewall, Web App
13 Scanning, and Compliance Monitoring, including Qualys Cloud Platform products (collectively, “the
14 ‘154 Accused Products”).

15 217. The ‘154 Accused Products embody the patented invention of the ‘154 Patent and
16 infringe the ‘154 Patent because they make or use the patented system or perform the patented method
17 of rule-based scanning of web-based content for exploits written in different programming languages,
18 by, for example, expressing the exploits as patterns of tokens or using a parse tree.

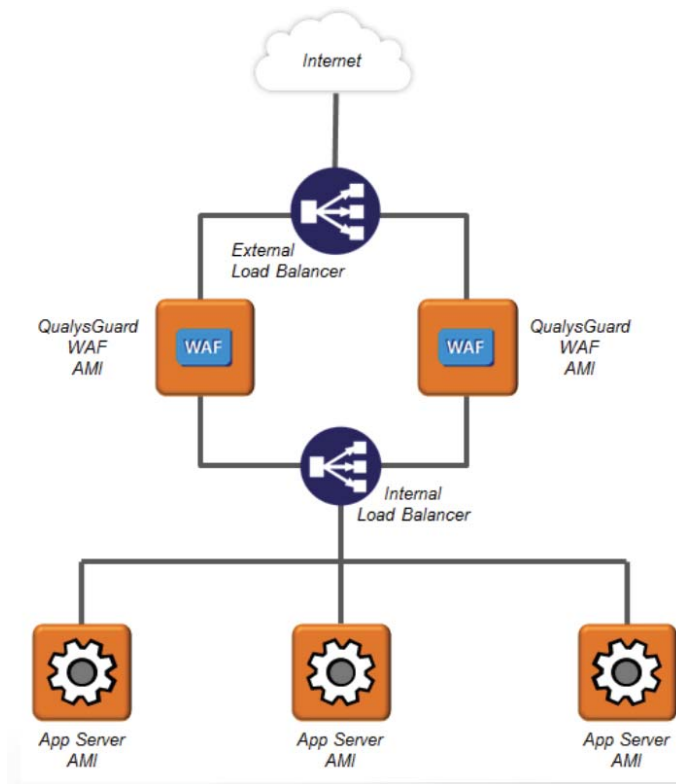
19 218. To the extent the ‘154 Accused Products use a system that includes modules,
20 components or software owned by third parties, the ‘154 Accused Products still infringe the ‘154
21 Patent because Defendant is vicariously liable for the use of the patented system by controlling the
22 entire system and deriving a benefit from the use of every element of the entire system. Similarly, to
23 the extent Defendant’s customers perform a step or steps of the patented method or the ‘154 Accused
24 Products incorporate third parties’ modules, components or software that perform one or more patented
25 steps, Defendant’s ‘154 Accused Products still infringe the ‘154 Patent because the ‘154 Accused
26
27
28

1 Products condition receipt by the third parties of a benefit upon performance of a step or steps of the
2 patented method and establish the manner or timing of that performance.

3 219. The '154 Accused Products are systems for protecting computers from dynamically
4 generated malicious content.

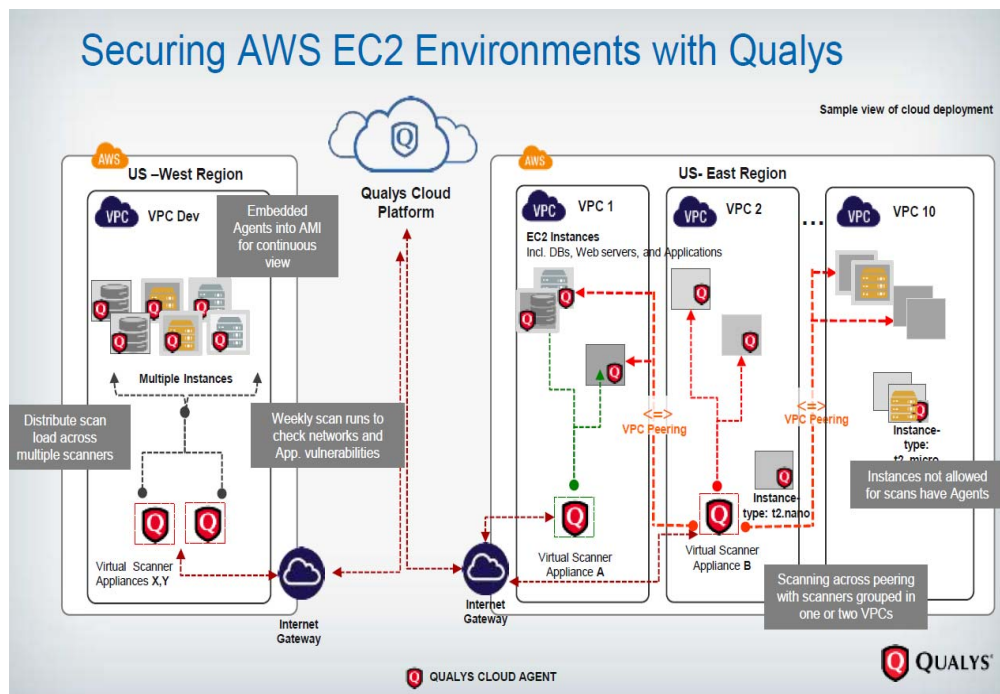


18 QualysGuard Web Application Security presentation at 5, attached hereto as Exhibit 8.



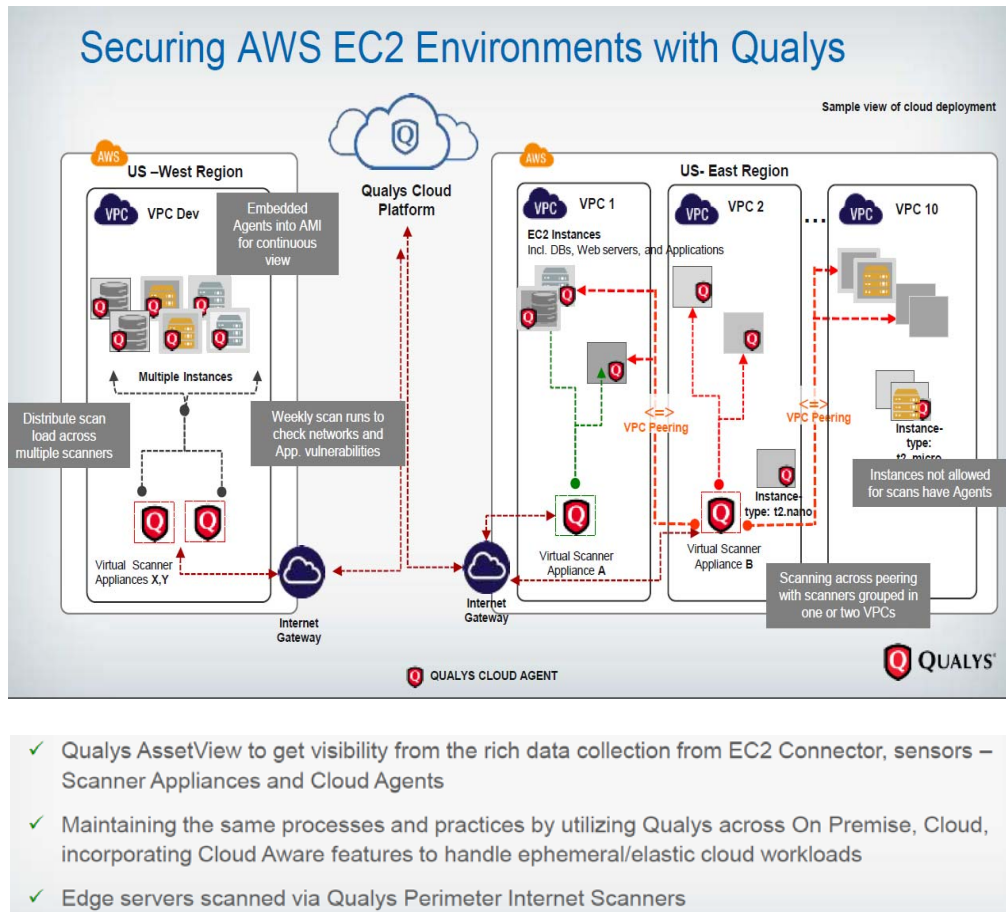
QualysGuard Web Application Security presentation at 30, attached hereto as Exhibit 8.

220. The '154 Accused Products dynamically scan and evaluate content, including dynamically generated malicious content:



1 Securing Public Cloud Infrastructure using Qualys presentation at 29, attached hereto as Exhibit 13.

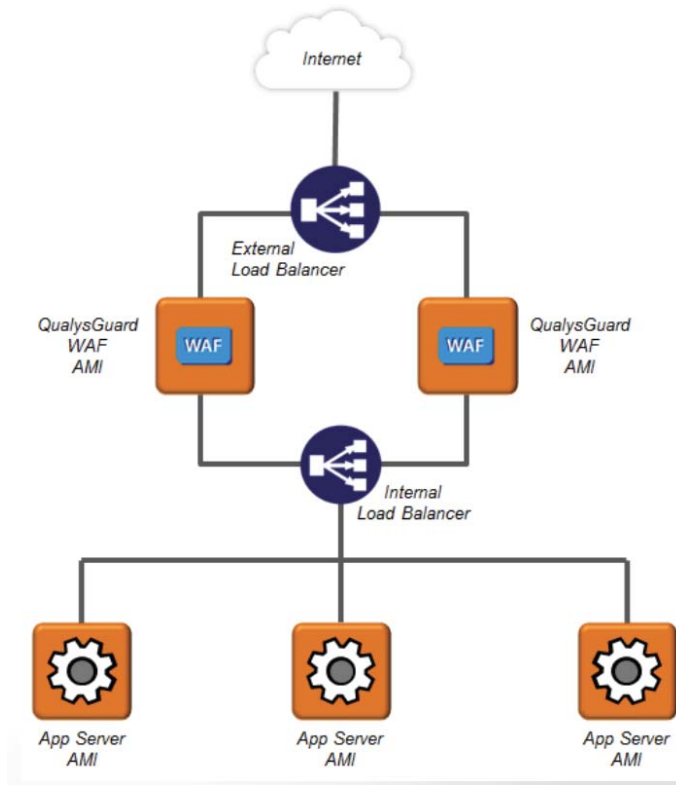
2 221. The '154 Accused Products include a content processor for processing content received
 3 over a network, the content including a call to a first function, and the call including an input, and for
 4 invoking a second function with the input if a security computer indicates that such invocation is safe:



20

21 Securing Public Cloud Infrastructure using Qualys presentation at 28-29, attached hereto as Exhibit 13.

22 222. The '154 Accused Products process received content which can include a call to a first
 23 function including an input:



QualysGuard Web Application Security presentation at 30, attached hereto as Exhibit 8.

223. Network mapping is an essential step in discovering vulnerabilities and consists of enumeration of all IP addresses in registered networks in an attempt to find live hosts. Network mapping is implemented using QualysGuard Vulnerability Management Scans – Maps:

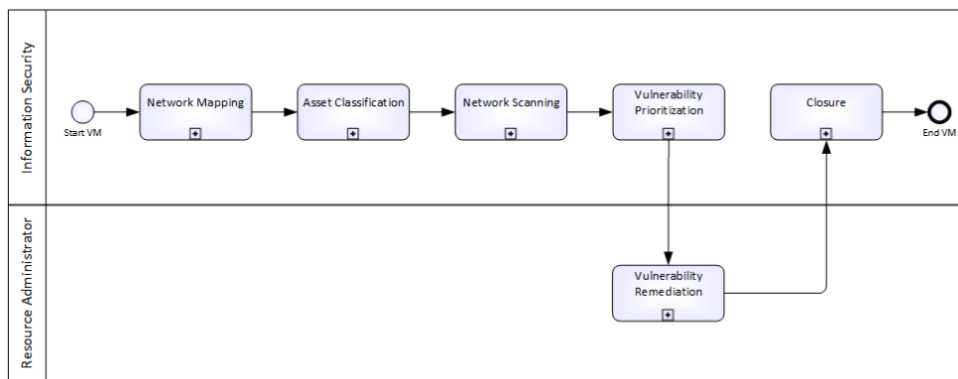


Figure 1: Vulnerability management process

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

- Scheduled scans and network discoveries
- Automated daily updates to vulnerability KnowledgeBase
- Automated remediation ticket generation and verification



<https://www.dts-solution.com/solutions/compliance-monitoring/vulnerability-management/>, attached hereto as Exhibit 9.

224. The ‘154 Accused Products invoke a second function with an input, only if a security computer indicates that such invocation is safe:

No.	Risk Level	Risk Rating	Remediation Target
1	High Risk vulnerabilities	25 – 100	30 days
2	Medium Risk vulnerabilities	10 – 25	60 days
3	Low Risk vulnerabilities	5 – 10	90 days
4	Slight Risk vulnerabilities	1 – 5	120 days

Table 3: Remediation targets

<https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

225. The '154 Accused Products scan, discover and catalog applications searching for portions of program code that are malicious according to analyzer rules (such as SQL injection, cross-site scripting (XSS), XML External Entities (XXE) and site misconfigurations):

Web Application Scanning

Qualys WAS accurately discovers, catalogs, and scans large numbers of web applications. WAS identifies web application vulnerabilities in the OWASP Top 10 like SQL injection, cross-site scripting (XSS), XML External Entities (XXE), and site misconfigurations. With Selenium scripts created by [Qualys Browser Recorder](#), WAS can effectively navigate through applications even when complex authentication and/or business workflows are present.

Key Features

- [REST API testing](#) and [Swagger support](#)
- [Retest functionality](#)
- [Single Sign-On \(SSO\)](#)
- [DOM XSS Detection](#)
- [Redundant link checks](#)
- [API for automation & integration](#)
- [High-volume scanning](#) (multi-scan feature)
- [Role-based access control \(RBAC\)](#)

<https://community.qualys.com/community/web-application-scanning>, attached hereto as Exhibit 11.

226. The '154 Accused Products scan incoming content received by the network interface to recognize the presence of potential computer exploits:

WAS engine verifies XSS vulnerabilities using multiple injections and verifications.

Detection Information

Parameter: It has been detected by exploiting the parameter **question_box** of the form located in URL <http://demo6.sea.qualys.com/?account=business>

Authentication: The payloads section will display a list of tests that show how the param could have been exploited to collect the information
In order to detect this vulnerability, no authentication has been required.

Access Path: Here is the path followed by the scanner to reach the exploitable URL:

#1 Request Show headers...

#2 Request Show headers...

#3 Request Show headers...

Payload: `ui_mode=question&question_box=1%22%3E%3Cqss%3E`
Request: `POST http://demo6.sea.qualys.com/boq/parseAction.php`

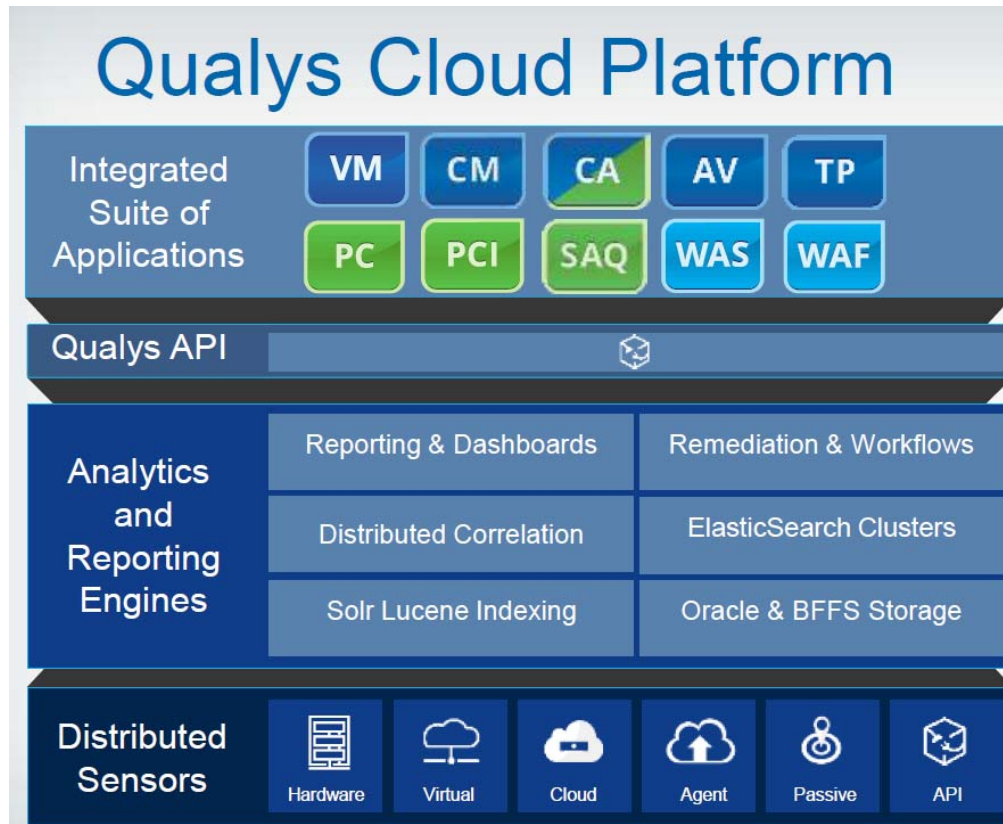
Click this link to try to reproduce the vulnerability using above payload. Note that clicking this link may not lead to visible results, either because the vulnerability requires context to be previously set (authentication, cookies...) or because the exploitation of the vulnerability does not lead to any visible proof

#3 Response

```
<HTML>
<HEAD>
<TITLE>Get Answers to All of your Questions</TITLE>
</HEAD>
<BODY>
No Answers found for your question: 1"><qss>
</BODY>
</HTML>
```

* The reflected string on the response webpage indicates that the vulnerability test was successful

QualysGuard InfoDay 2014 presentation at 29, attached hereto as Exhibit 12.

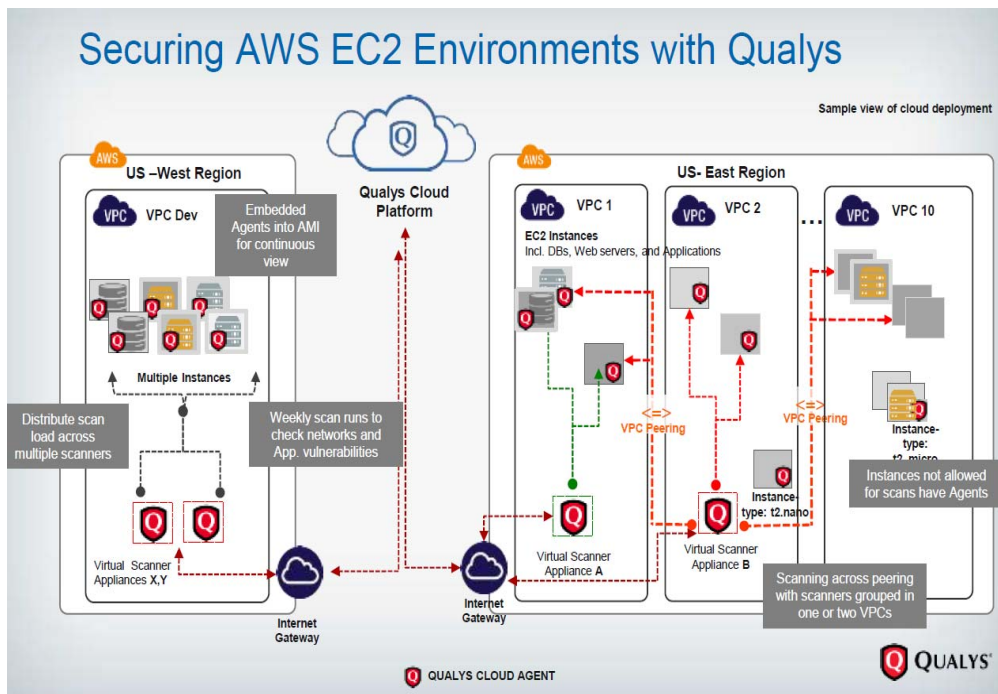


Securing Public Cloud Infrastructure using Qualys presentation at 12, attached hereto as Exhibit 13.

- ✓ Secure very large web apps with progressive scanning, which lets you scan in incremental stages and bypass restrictions preventing you from scanning an entire app in one scan window
- ✓ Detect OWASP Top 10 risks such as SQL injection, cross-site scripting (XSS), cross-site request forgery (CSRF) and unvalidated redirection
- ✓ Test IoT services and mobile apps as well as API-based business-to-business connectors, with Qualys WAS' SOAP and REST API scanning capabilities
- ✓ Achieve maximum scan coverage with authenticated scanning, including advanced scripting using Selenium, the open source browser automation system for web app testing
- ✓ Set scans' exact start time and duration with powerful scheduling features

<https://www.qualys.com/apps/web-app-scanning/>, attached hereto as Exhibit 19.

227. The ‘154 Accused Products include a transmitter for transmitting input to a security computer (such as the Qualys Cloud) for inspection, when a first function is invoked.



- ✓ Qualys AssetView to get visibility from the rich data collection from EC2 Connector, sensors – Scanner Appliances and Cloud Agents
- ✓ Maintaining the same processes and practices by utilizing Qualys across On Premise, Cloud, incorporating Cloud Aware features to handle ephemeral/elastic cloud workloads
- ✓ Edge servers scanned via Qualys Perimeter Internet Scanners

Securing Public Cloud Infrastructure using Qualys presentation at 28-29, attached hereto as Exhibit 13.

228. The ‘154 Accused Products include a receiver for receiving an indicator (risk level) from a security computer of whether it is safe to invoke a second function:

No.	Risk Level	Risk Rating	Remediation Target
1	High Risk vulnerabilities	25 – 100	30 days
2	Medium Risk vulnerabilities	10 – 25	60 days
3	Low Risk vulnerabilities	5 – 10	90 days
4	Slight Risk vulnerabilities	1 – 5	120 days

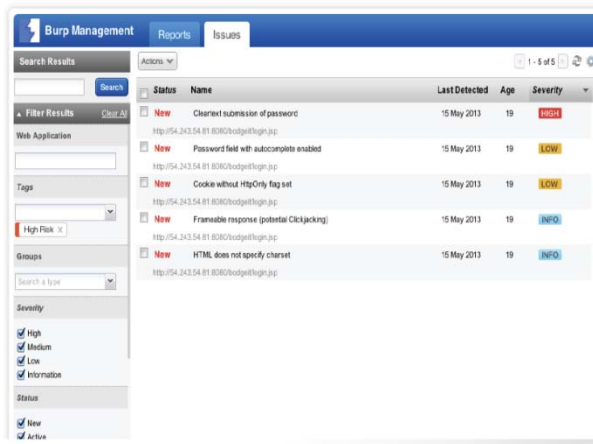
Table 3: Remediation targets

1 <https://blog.thousandeyes.com/efficient-vulnerability-management-qualys/>, attached hereto as Exhibit 10.

2 229. The '154 Accused Products store an indicator (risk level) including entries that relate
3 risk report and policies:

4 **Attack Proxy Integration – Phase 1 –Completed!**

- 5 • **Store and manage**
 - 6 – Burp scan data
 - 7 – Share safely
- 8 • **Act on Burp scan findings**
 - 9 – Associate with web app
 - 10 – Mark as risk accepted, etc
 - 11 – Filter based on attributes




12


13
14 QualysGuard Web Application Security presentation at 8, attached hereto as Exhibit 8.

15 **OWASP Risk Report**

16 URL scan of China Commerce title [rename](#) <http://www.name.cn>
 17 OWASP summary: 106 pages scanned December 25, 2012 at 09:45
 18 Total pages impacted: 10 Vulnerabilities detected: 15 DNS Hostname: vs-win8rt-sfce
 NetBIOS Hostname: VS-WIN8RT-SFCE
 Operating System: Windows 2012/8 [Rescan URL](#)

19 **Risk percentage by scanned pages** **Vulnerability by severity level**

20  **106 Pages scanned**
 21 Impacted pages: 10 (9.33%)

22  **15 Vulnerabilities**
 23 Level 5: 6 (40.40%)
 Level 4: 3 (22.33%)
 Level 3: 2 (14.25%)
 Level 2: 3 (13.33%)
 Level 1: 1 (10.33%)

24 **Categories**

25 **A-1 Injection** 4 Pages | 12 Vulns
 Injection flaws, such as SQL, OS, and LDAP injection, occur when untrusted data is sent to an interpreter as part of a command or query. The attacker's hostile data can trick the interpreter into executing unintended commands or accessing unauthorized data.

26 **A-2 Cross-Site Scripting (XSS)** 6 Pages | 3 Vulns
 XSS flaws occur whenever an application takes untrusted data and sends it to a web browser without proper validation and escaping. XSS allows attackers to execute scripts in the victim's browser which can hijack user sessions, deface web sites, or redirect the user to malicious sites.

27 **Category A-2: Cross-Site Scripting (XSS)**

28 **4 Impacted pages**

<http://www.mwtest.info/malware-demos-named/Kilibits/Kilibits.htm>

QID: 10577 [View details](#)
 Microsoft October 2010 Security Update: 16 bulletins, 49 vulnerabilities

QID: 10906 [View details](#)
 PHPBB2 ViewTopic.PHP Cross Site Scripting Vulnerability

<http://www.mwtest.info/malware-demos-named/MS07-004/MS07-004DEMO.html>

1 <https://www.qualys.com/apps/web-app-scanning/>, attached hereto as Exhibit 19.

2 230. If the security computer indicates that it is safe to invoke the second function with the
3 input, the ‘154 Accused Products make that input available to the user:

4 The Burp Management feature gives you a way to store the findings discovered by the Burp
5 Suite scanner with those discovered by WAS and share this information with multiple
6 users. To learn more refer to this [blog article](#) at the Qualys Community. (This feature is not
7 available to Express Lite users.)

To get started click the Burp option on the top menu and go to Burp > Reports, then click
8 Import and we’ll walk you through the steps. Your issues list shows imported Burp issues.



9 Qualys Web Application Scanning Getting Started Guide Version 6.0.1 at 20, attached hereto as
10 Exhibit 15.

11 Compliance

12 You enforce compliance with complex internal
13 policies, industry mandates and external regulations,
14 and assess vendor risk. Qualys’ cloud-based solutions
15 give you the clarity, control and flexibility you need
16 to keep your organization compliant.
17
18
19

20 Qualys Cloud Platform datasheet at 6, attached hereto as Exhibit 22.

21 231. Defendant’s infringement of the ‘154 Patent has injured Finjan in an amount to be
22 proven at trial, but not less than a reasonable royalty. Additionally, as a result of Defendant’s unlawful
23 activities, Finjan has suffered and will continue to suffer irreparable harm for which there is no
24 adequate remedy at law. Finjan and Defendant compete in the security software space, and Finjan is
25 actively engaged in licensing its patent portfolio. Defendant’s continued infringement of the ‘154
26 Patent causes harm to Finjan in the form of price erosion, loss of goodwill, damage to reputation, loss
27
28

1 of business opportunities, inadequacy of money damages, and direct and indirect competition.

2 Monetary damages are insufficient to compensate Finjan for these harms, and thus Finjan is entitled to
3 preliminary and/or permanent injunctive relief.

4 232. Defendant has been long-aware of Finjan's patents, including the '154 Patent, and
5 continued its unauthorized infringing activity despite this knowledge. As discussed above, Finjan
6 actively and diligently attempted to engage in good faith negotiations with Defendant for nearly three
7 years regarding Defendant's infringement of Finjan's Asserted Patents. Even after being shown that
8 its products infringe Finjan's patents, including the '154 Patent, on information and belief Defendant
9 made no effort to avoid infringement. Instead, Defendant continued to incorporate its infringing
10 technology into additional products, such as those identified in this complaint. All of these actions
11 demonstrate Defendant's blatant and egregious disregard for Finjan's patent rights.

12 233. Despite its knowledge of Finjan's patent portfolio and Asserted Patents, and its specific
13 knowledge of its own infringement, Defendant continued to sell the '154 Accused Products in
14 complete and reckless disregard of Finjan's patent rights. As such, Defendant acted recklessly,
15 willfully, wantonly, and deliberately engaged in acts of infringement of the '154 Patent, justifying an
16 award to Finjan of increased damages under 35 U.S.C. § 284, and attorneys' fees and costs incurred
17 under 35 U.S.C. § 285.

18 **PRAYER FOR RELIEF**

19 WHEREFORE, Finjan prays for judgment and relief as follows:

20 A. An entry of judgment holding that Defendant infringed the '844, '494, '305, '408,
21 '968, '731, and '154 Patents; are infringing the '305, '408, '968, '731, and '154 Patents; induced
22 infringement of the '844, '494, '305, '408, '968, and '731 Patents and are inducing infringement of
23 the '305, '408, '968, and '731 Patents;

24 B. A preliminary and permanent injunction against Defendant and its officers, employees,
25 agents, servants, attorneys, instrumentalities, and those in privity with them, from infringing the '305,
26 '408, '968, '731, and '154 Patents, and from inducing the infringement of the '305, '408, '968, and
27 '731 Patents, and for all further and proper injunctive relief pursuant to 35 U.S.C. § 283;

28

1 C. An award to Finjan of such past damages, not less than a reasonable royalty, as it shall
2 prove at trial against Defendant that is adequate to fully compensate Finjan for Defendant's
3 infringement of the '844, '494, '305, '408, '968, '731, and '154 Patents;

4 D. A determination that Defendant's infringement has been willful, wanton, and deliberate
5 and that the damages against it be increased up to treble on this basis or for any other basis in
6 accordance with the law;

7 E. A finding that this case is "exceptional" and an award to Finjan of its costs and
8 reasonable attorneys' fees, as provided by 35 U.S.C. § 285;

9 F. An accounting of all infringing sales and revenues, together with post judgment interest
10 and prejudgment interest from the first date of infringement of the '844, '494, '305, '408, '968, '731,
11 and '154 Patents; and

12 G. Such further and other relief as the Court may deem proper and just.

13
14 Respectfully submitted,

15 Dated: November 29, 2018

By: /s/ Paul J. Andre

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17 Lisa Kobialka (State Bar No. 191404)
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23 *Attorneys for Plaintiff*
24 FINJAN, INC.

DEMAND FOR JURY TRIAL

Finjan demands a jury trial on all issues so triable.

Respectfully submitted,

Dated: November 29, 2018

By: /s/ Paul J. Andre

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