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3 UNITED STATES DISTRICT COURT
4 FOR THE WESTERN DISTRICT OF WASHINGTON
5 AT SEATTLE

6
7 DATACLOUD TECHNOLOGIES, LLC,
8 Plaintiff,
9 v.
10 F5 NETWORKS, INC.,
11 Defendant.

CASE NO. 20-CV-872

**COMPLAINT FOR PATENT
INFRINGEMENT**

JURY TRIAL DEMANDED

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13 Plaintiff DataCloud Technologies, LLC (hereinafter, “Plaintiff” or
14 “DataCloud”), by and through its undersigned counsel, files this Complaint for
15 Patent Infringement against Defendant F5 Networks, Inc. (hereinafter, “Defendant”
16 or “F5 Networks”) as follows:

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18
19 **NATURE OF THE ACTION**

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21 1. This is a patent infringement action to stop Defendant’s infringement
22 of the following United States Patents (collectively, the “Patents-in-Suit”), copies
23 of which are attached hereto as Exhibit A, Exhibit B, Exhibit C, Exhibit D and
24 Exhibit E, respectively:
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	U.S. Patent No.	Title
A.	6,560,613	Disambiguating File Descriptors
B.	6,651,063	Data Organization And Management System And Method
C.	8,370,457	Network Communication Through A Virtual Domain
D.	8,762,498	Apparatus, System, And Method For Communicating To A Network Through A Virtual Domain
E.	RE44,723	Regulating File Access Rates According To File Type

2. Plaintiff seeks injunctive relief and monetary damages.

PARTIES

3. DataCloud is a limited liability company organized and existing under the laws of the State of Georgia and maintains its principal place of business at 44 Milton Avenue, Suite 254, Alpharetta, Georgia, 30009 (Fulton County).

4. Based upon public information, F5 Networks is a corporation duly organized and existing under the laws of the state of Washington since February 26, 1996.

5. Based upon public information, F5 Networks has its principal place of business located at 801 5th Avenue, Seattle, Washington, 98104-1663 (King County).

6. Defendant may be served through its registered agent, Scot Rogers, at the address for F5 Networks' principal place of business.

JURISDICTION AND VENUE

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2 7. This action arises under the Patent Laws of the United States, 35
3 U.S.C. § 1 et seq., including 35 U.S.C. §§ 271, 281, 283, 284, and 285. This Court
4 has subject matter jurisdiction over this case for patent infringement under 28
5 U.S.C. §§ 1331 and 1338(a).
6

7 8. The Court has personal jurisdiction over F5 Networks because:
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9 Defendant has minimum contacts within the State of Washington and in this
10 District; Defendant has purposefully availed itself of the privileges of conducting
11 business in the State of Washington and in this District; Defendant has sought
12 protection and benefit from the laws of the State of Washington and is incorporated
13 there; Defendant regularly conducts business within the State of Washington and
14 within this District, and Plaintiff's causes of action arise directly from Defendant's
15 business contacts and other activities in the State of Washington and in this
16 District.
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20 9. More specifically, F5 Networks, directly and/or through its
21 intermediaries, ships, distributes, makes, uses, imports, offers for sale, sells, and/or
22 advertises its products and services in the United States, the State of Washington,
23 and in this District.
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10. Based upon public information, F5 Networks solicits customers in the State of Washington and in this District and has many paying customers who are residents of the State of Washington and this District and who use its products in the State of Washington and in this District. Defendant is also incorporated in the State of Washington and in this District.

11. Venue is proper pursuant to 28 U.S.C. §1400(b) because F5 Networks resides in this District because of its formation under the laws of Washington and because it has its principal place of business in this District.

12. Venue is proper pursuant to 28 U.S.C. § 1391(b) and (c) because F5 Networks resides in this District because of its formation under the laws of Washington, which subjects it to the personal jurisdiction of this Court.

BACKGROUND INFORMATION

13. The Patents-in-Suit were duly and legally issued by the United States Patent and Trademark Office (hereinafter, the “USPTO”) after full and fair examinations.

14. Plaintiff is the owner of the Patents-in-Suit, and possesses all right, title and interest in the Patents-in-Suit including the right to enforce the Patents-in-

Suit, the right to license the Patents-in-Suit, and the right to sue Defendant for infringement and recover past damages.

15. Plaintiff has at all times complied with the marking provisions of 35 U.S.C. § 287 with respect to the Patents-in-Suit.

16. Plaintiff does not sell, offer to sell, make, or use any products itself, so it does not have any obligation to mark any of its own products under 35 U.S.C. § 287.

17. By letter dated April 16, 2020, DataCloud’s licensing agent sent Defendant a letter in which it identified DataCloud’s patent portfolio, which includes each of the Patents-in-Suit. See Exhibit F (hereinafter, the “Notice Letter”).

DEFENDANT'S PRODUCTS AND SERVICES

18. Based upon public information, F5 owns, operates, advertises, and/or controls the website www.f5.com through which it advertises, sells, offers to sell, provides and/or educates customers about its products and services. See Exhibit G.

19. Based upon public information, Defendant provides sales information, training and educational information, for its products. See Exhibit H.

COUNT I INFRINGEMENT OF U.S. PATENT NO. 6,560,613

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2 20. Plaintiff re-alleges and incorporates by reference each of the
3 paragraphs above.

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5 21. U.S. Patent No. 6,560,613 (hereinafter, the “’613 Patent”), was issued
6 on May 6, 2003 after full and fair examination by the USPTO of Application No.
7 09/500,212 which was filed on February 8, 2000. See Ex. A. A Certificate of
8 Correction was issued on August 26, 2003. See id.

9
10 22. Based upon public information, Plaintiff is informed and believes that
11 Defendant has infringed one or more claims of the ’613 Patent, either literally or
12 under the doctrine of equivalents, because it ships distributes, makes, uses,
13 imports, offers for sale, sells, and/or advertises its “Viprion® On-Demand
14 Application Delivery Controller” (“Viprion OADC”) which provides a “single,
15 powerful Application Delivery Controller (ADC) with modular performance
16 blades you can add or remove without disrupting users or application” (see Exhibit
17 I-1) and its “BIG-IP® Global Traffic Manager™ Virtual Edition (VE) Virtual
18 Platform” that employs KVM and VMware hypervisors (“Virtual Platform”) (see
19 Exhibit I-2).

23. Upon information and belief, the Viprion OADC and Virtual

1 Platform meet each and every element of at least Claim 1 of the '613 Patent, either
2 literally or equivalently.
3

4 24. Based upon public information, the Viprion OADC and Virtual

5 Platform have infringed one or more claims of the '613 Patent, including Claim 1,
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7 because it provides a method for disambiguating file descriptors in a computer
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9 system through a process which intercepts the system calls that identify file
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11 descriptors and the system calls that create copies of one or more file descriptors,
12

13 stores one or more file type indicators for each file descriptor and each file
14

15 descriptor copy, and upon an attempt to access a file based upon a file descriptor,
16

17 determines what file type is associated with the file descriptor based on a review of
18

19 the stored file type indicators. Both QEMU and KVM and VMWare employ
20

21 disambiguation of file descriptors (files/sockets/pipes) that are used in shadowed
22

23 I/O system call routines by intercepting them, storing related indicators (e.g.,
24

25 reference to images), and examining those stored indicators to determine the
26

27 associated file type.
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25. To the extent that Defendant is not the only direct infringer of one or

26 more claims of the '613 Patent, it instructs its customers on how to use Viprion
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OADC and Virtual Platform in ways that infringe one or more claims of the '613 Patent through its support and sales activities. See Ex. H.

26. Based upon public information, Defendant's customers use its Viprion OADC and Virtual Platform in such a way that infringes one or more claims of the '613 Patent. See Exs. I-1 and I-2.

27. Defendant's aforesaid activities have been without authority and/or license from Plaintiff.

28. Plaintiff is entitled to recover from Defendant the damages sustained by Plaintiff as a result of Defendant's wrongful acts in an amount subject to proof at trial, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

COUNT II: INFRINGEMENT OF U.S. PATENT NO. 6,651,063

29. Plaintiff re-alleges and incorporates by reference each of the paragraphs above.

30. U.S. Patent No. 6,651,063 (hereinafter, the "'063 Patent"), was issued on November 18, 2003 after full and fair examination by the USPTO of Application No. 09/493,911 which was filed on January 28, 2000. See Ex. B. A Certificate of Correction was issued on February 3, 2004. See *id.*

31. Based upon public information, Plaintiff is informed and believes that Defendant has infringed one or more claims of the '063 Patent, either literally or under the doctrine of equivalents, because it ships distributes, makes, uses, imports, offers for sale, sells, and/or advertises its "BIG-IP® Edge Client®" which "delivers secure access via Secure Socket Layer (SSL) virtual private network (VPN) for today's remote and mobile workforce." See Exhibit J.

32. Upon information and belief, the BIG-IP® Edge Client® meets each and every element of at least Claim 4 of the '063 Patent, either literally or equivalently.

33. Based upon public information, the BIG-IP® Edge Client® has infringed one or more claims of the '063 Patent, including Claim 4, because it provides a method for storing and controlled access of data in a repository by storing information in an "information pack" (BIG-IP Edge Client is a package) to which is associated the address of a data repository, a "category identifier" (e.g., Path: BIGIPEdgeClient), and a "provider identifier" (e.g., "Company: F5 Networks, Inc.")). The information pack is sent to the specified data repository and stored there in a location reserved for the specified category identifier (e.g., file name of BIGIPEdgeClient.exe is reserved information for the category of file name) that is specifically created for the information pack, and a "custom category

1 identifier” is assigned to the information pack (e.g., application of “F5DialSrv” in
2 information pack has a digital signature for custom category identifier). The
3 custom category identifier is subsequently used to identify other information packs
4 that should be stored in the same location based on matching category identifiers
5 (e.g., software updates are signed using provider identity of “F5 Networks, Inc”,
6 where signature verification for update “f5fpclient.cab” will compare at least that
7 the stored provider identity is the same).
8

9
10 34. To the extent that Defendant is not the only direct infringer of one or
11 more claims of the ’063 Patent, it instructs its customers on how to use the
12 Accused Products in ways that infringe one or more claims of the ’063 Patent
13 through its support and sales activities. See Ex. H.
14

15
16 35. Based upon public information, Defendant’s customers use its
17 products and services in such a way that infringes one or more claims of the ’063
18 Patent. See Ex. J.
19

20 36. Defendant’s aforesaid activities have been without authority and/or
21 license from Plaintiff.
22

23 37. Plaintiff is entitled to recover from Defendant the damages sustained
24 by Plaintiff as a result of Defendant’s wrongful acts in an amount subject to proof
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at trial, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

COUNT III: INFRINGEMENT OF U.S. PATENT NO. 8,370,457

38. Plaintiff re-alleges and incorporates by reference each of the paragraphs above.

39. U.S. Patent No. 8,370,457 (hereinafter, the “’457 Patent”), was issued on February 5, 2013 after full and fair examination by the USPTO of Application No. 11/717,911 which was filed on March 13, 2007. See Ex. C. A Certificate of Correction was issued on March 18, 2014. See *id.*

40. Based upon public information, Plaintiff is informed and believes that Defendant has infringed one or more claims of the ’457 Patent, either literally or under the doctrine of equivalents, because it ships distributes, makes, uses, imports, offers for sale, sells, and/or advertises its legacy BIG-IP hardware platform and “BIG-IP® iSeries Appliances” which “deliver quick and easy programmability, ecosystem-friendly orchestration, and record breaking, software-defined hardware performance” (“BIG-IP Appliances”) See Exhibit K.

41. Upon information and belief, the BIG-IP Appliances meet each and every element of at least Claim 9 of the ’457 Patent, either literally or equivalently.

1 42. Based upon public information, the BIG-IP® iSeries Appliances have
2 infringed one or more claims of the '457 Patent, including Claim 9, because they
3 provide a system of hardware and software (provision of FTP ALG to transfer
4 files) that is configured to control access to a client IP address by requiring an
5 established combination of a destination IP address (e.g., "client IP address" will
6 be within Protocol Profile (Client) and "destination IP address" will be within
7 Protocol Profile (Server)) and a forwarder IP address (e.g., a "translation IP
8 address and prefix length") be included in the request to access the client IP
9 address where each of the three IP addresses is different from the other two (e.g.,
10 Forwarder IP: 10.33.1.4/Client IP: 192.168.13.64/Destination IP: 10.1.1.2).
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14 43. To the extent that Defendant is not the only direct infringer of one or
15 more claims of the '457 Patent, it instructs its customers on how to use the BIG-IP
16 Appliances in ways that infringe one or more claims of the '457 Patent through its
17 support and sales activities. See Ex. H.
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20 44. Based upon public information, Defendant's customers use its
21 products and services in such a way that infringes one or more claims of the '457
22 Patent. See Ex. K.
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24 45. Defendant's aforesaid activities have been without authority and/or
25 license from Plaintiff.
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1 46. Plaintiff is entitled to recover from Defendant the damages sustained
2 by Plaintiff as a result of Defendant's wrongful acts in an amount subject to proof
3 at trial, which, by law, cannot be less than a reasonable royalty, together with
4 interest and costs as fixed by this Court under 35 U.S.C. § 284.

5 **COUNT IV: INFRINGEMENT OF U.S. PATENT NO. 8,762,498**

6 47. Plaintiff re-alleges and incorporates by reference each of the
7 paragraphs above.
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10 48. U.S. Patent No. 8,762,498 (hereinafter, the "'498 Patent"), was issued
11 on June 24, 2014 after full and fair examination by the USPTO of Application No.
12 13/731,731 which was filed on December 31, 2012. See Ex. D.
13

14 49. Based upon public information, Plaintiff is informed and believes that
15 Defendant has infringed one or more claims of the '498 Patent, either literally or
16 under the doctrine of equivalents, because it ships distributes, makes, uses,
17 imports, offers for sale, sells, and/or advertises its BIG-IP platform that employs
18 SNI Routing and which "facilitate[es] high-performance application traffic
19 processing across all leading hypervisors and cloud platforms." See Exhibit L.
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23 50. Upon information and belief, the BIG-IP platform meets each and
24 every element of at least Claim 1 of the '498 Patent, either literally or equivalently.
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1 51. Based upon public information, the BIG-IP® Virtual Edition has
2 infringed one or more claims of the '498 Patent, including Claim 1, because it
3 provides a system of hardware and software that is configured to respond to a
4 request for data by identifying a virtual namespace destination IP address (App 1
5 or App2) from a selection of categories (e.g., SNI: app1.example.com and SNI:
6 app2.example.com or anysite.net, domain.com, mysite.com, bizsite.org, etc.) that is
7 related to said selection of categories (category of “app1.example.com” is used for
8 the virtual namespace destination address in request data to determine a device
9 with a specific forwarder IP address and instruct it to send the request for data to
10 the destination IP address).
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14 52. To the extent that Defendant is not the only direct infringer of one or
15 more claims of the '498 Patent, it instructs its customers on how to use the BIG-IP
16 platform in ways that infringe one or more claims of the '498 Patent through its
17 support and sales activities. See Ex. H.
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20 53. Based upon public information, Defendant's customers use its
21 products and services in such a way that infringes one or more claims of the '498
22 Patent. See Ex. L.
23

24 54. Defendant's aforesaid activities have been without authority and/or
25 license from Plaintiff.
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1 55. Plaintiff is entitled to recover from Defendant the damages sustained
2 by Plaintiff as a result of Defendant's wrongful acts in an amount subject to proof
3 at trial, which, by law, cannot be less than a reasonable royalty, together with
4 interest and costs as fixed by this Court under 35 U.S.C. § 284.

5 **COUNT V: INFRINGEMENT OF U.S. PATENT NO. RE44,723**

6 56. Plaintiff re-alleges and incorporates by reference each of the
7 paragraphs above.
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10 57. U.S. Patent No. RE44,723 (hereinafter, the "'723 Patent"), was issued
11 on January 21, 2014 after full and fair examination by the USPTO of Application
12 No. 11/818,544 (hereinafter, the "'544 Application") which was filed on June 14,
13 2007. See Ex. E.
14

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16 58. The '544 Application involved the re-examination of U.S. Patent No.
17 6,907,421 which was issued on June 14, 2005 after full and fair examination by the
18 USPTO of Application No. 09/572,672 which was filed on May 16, 2000. See Ex.
19 E.
20

21 59. Based upon public information, Plaintiff is informed and believes that
22 Defendant has infringed one or more claims of the '723 Patent, either literally or
23 under the doctrine of equivalents, because its "BIG-IP® Application Security
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1 Manager™” can be configured to prevent DoS attacks based on access and
2 transaction rates. See Exhibit M.

3 60. Upon information and belief, the BIG-IP® Application Security
4 Manager™ meets each and every element of at least Claim 1 of the ’723 Patent,
5 either literally or equivalently.
6

7 61. Based upon public information, the BIG-IP® Application Security
8 Manager™ has infringed one or more claims of the ’723 Patent, including Claim 1,
9 because it requires an assessment of the transactions per second (“TPS”) for
10 system calls to a particular URL and has the ability to drop connections if the TPS
11 exceeds the threshold value.
12

13 62. To the extent that Defendant is not the only direct infringer of one or
14 more claims of the ’723 Patent, it instructs its customers on how to use the BIG-
15 IP® Application Security Manager™ in ways that infringe one or more claims of
16 the ’723 Patent through its support and sales activities. See Ex. H.
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18 63. Based upon public information, Defendant’s customers use its
19 products and services in such a way that infringes one or more claims of the ’723
20 Patent. See Ex. M.
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64. Defendant's aforesaid activities have been without authority and/or
1 license from Plaintiff.
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65. Plaintiff is entitled to recover from Defendant the damages sustained
3 by Plaintiff as a result of Defendant's wrongful acts in an amount subject to proof
4 at trial, which, by law, cannot be less than a reasonable royalty, together with
5 interest and costs as fixed by this Court under 35 U.S.C. § 284.
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9 **JURY DEMAND**

10 66. Plaintiff demands a trial by jury on all issues.
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12 **PRAYER FOR RELIEF**

13 67. Plaintiff respectfully requests the following relief:
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15 A. An adjudication that one or more claims of the Patents-in-Suit
16 has been infringed, either literally and/or under the doctrine of
17 equivalents, by F5 Networks;
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19 B. An adjudication that F5 Networks has induced infringement of
20 one or more claims of the Patents-in-Suit based upon post-filing
21 date knowledge of the Patents-in-Suit;
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23 C. An award of damages to be paid by F5 Networks adequate to
24 compensate Plaintiff for F5 Networks' past infringement, including
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1 interest, costs, and disbursements as justified under 35 U.S.C. §
2 284 and, if necessary to adequately compensate Plaintiff for F5
3 Networks' infringement, an accounting of all infringing sales
4 including, but not limited to, those sales not presented at trial;

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6 D. That this Court declare this to be an exceptional case and award
7 Plaintiff its reasonable attorneys' fees and costs in accordance with
8 35 U.S.C. § 285; and,
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E. Any further relief that this Court deems just and proper.

DATED this 8th day of June, 2020.

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