Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Configuring BIG-IP DNS (formerly GTM) v.17.5

CODE:	LENGTH:	PRICE:
F5N_BIG-DNS-I	16 Hours (2 days)	£1,795.00

Description

Learn how to configure and deploy BIG-IP DNS as it is commonly used. Learn how the Domain Name System (DNS) resolves hostnames into IP addresses, and how to use DNS Express to cache DNS query responses, accelerating DNS resolution. Practice working with key features to perform intelligent DNS resolution and configure wide IP pools to use a path load balancing method. Explore using persistence to effectively return one or more clients to the same virtual server on each query. Practice manual controls for resuming certain load balancing behaviors in the event of an outage. Configure BIG-IP DNS to participate in the DNSSEC chain of trust. Configure limit settings on virtual servers, and wide IP pools to temporarily direct client traffic away from resources that may not be performing at certain thresholds of efficiency. Customize intelligent DNS resolution using iRules on a wide IP. Learn how to configure a BIG-IP DNS sync group.
Reinforce knowledge transfer through the use of hands-on labs, and gain the confidence needed to start using BIG-IP DNS in a production environment.

Audience

This course is intended for system and network administrators responsible for installation, setup, configuration, and administration of BIG-IP DNS systems.

Prerequisites

The following free Self-Directed Training (SDT) courses, although optional, are helpful for any student with limited BIG-IP administration and configuration experience:
• Getting Started with BIG-IP
• Getting Started with BIG-IP DNS
General network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course, including OSI model encapsulation, routing and switching, Ethernet and ARP, TCP/IP concepts, IP addressing and subnetting, NAT and private IP addressing, NAT and private IP addressing, default gateway, network firewalls, and LAN vs. WAN.
The following course-specific knowledge and experience is suggested before attending this course:
• DNS resolution process
• Experience configuring DNS content and resolution servers
• DNSSEC

Programme

Chapter 1: Setting Up the BIG-IP System

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Archiving the BIG-IP Configuration
- Leveraging F5 Support Resources and Tools

Chapter 2: Introducing the Domain Name System (DNS) and BIG-IP DNS

- Understanding the Domain Name System (DNS)
- Reviewing the Name Resolution Process
- Implementing BIG-IP DNS

- Using DNS Resolution Diagnostic Tools

Chapter 3: Accelerating DNS Resolution

- Introducing DNS Resolution with BIG-IP DNS
- BIG-IP DNS Resolution Decision Flow
- Using the Traffic Management Shell (TMSH)
- Configuring BIG-IP DNS Listeners
- Resolving DNS Queries in the Labs (Lab Zone Records)
- Load Balancing Queries to a DNS Server Pool
- Accelerating DNS Resolution with DNS Cache
- Accelerating DNS Resolution with DNS Express
- Introducing Wide IPs
- Using Other Resolution Methods with BIG-IP DNS
- Integrating BIG-IP DNS into Existing DNS Environments

Chapter 4: Implementing Intelligent DNS Resolutions

- Introducing Intelligent DNS Resolution
- Identifying Physical Network Components
- Identifying Logical Network Components
- Collecting Metrics for Intelligent Resolution
- Configuring Data Centers
- Configuring a BIG-IP DNS System as a Server
- Configuring a BIG-IP LTM System as a Server
- Establishing iQuery Communication between BIG-IP Systems
- Configuring a Non-F5 Server
- Defining Links and Routers
- Configuring Wide IP Pools
- Configuring Wide IPs
- Managing Object Status and State

Chapter 5: Load Balancing Intelligent DNS Resolution

- Introducing Load Balancing on BIG-IP DNS
- Using Static Load Balancing Methods
    - Round Robin
    - Ratio
    - Global Availability
    - Static Persist
    - Other Static Load Balancing Method
    - Using Dynamic Load Balancing Method
    - Round Trip Tim
    - Completion Rat
    - CP
    - Hop
    - Least Connection
    - Packet Rat
    - Kilobytes per Secon
    - Other Dynamic Load Balancing Methods
- Using Quality of Service Load Balancing
- Persisting DNS Query Responses
- Configuring GSLB Load Balancing Decision Logs
- Using Manual Resume
- Using Topology Load Balancing

Chapter 6: Using LDNS Probes and Metrics

- Introducing LDNS Probes and Metrics
- Types of LDNS Probes
- Excluding an LDNS from Probing
- Configuring Probe Metrics Collection

Chapter 7: Monitoring Intelligent DNS Resources

- Exploring Monitors
- Configuring Monitors
- Assigning Monitors to Resources
- Monitoring Best Practices

Chapter 8: Advanced BIG-IP DNS Topics

- Implementing DNSSEC
- Setting Limits for Resource Availability
- Using iRules with Wide IPs
- Introducing Other Wide IP Types
- Implementing BIG-IP DNS Sync Groups

Chapter 9: Final Configuration Projects

- Review Questions

Chapter 10: Additional Training and Certification

- Getting Started Series Web-Based Training
- F5 Instructor Led Training Curriculum
- F5 NGINX Instructor Led Training Curriculum
- F5 Professional Certification Program

Appendix A: Working with Local BIND and ZoneRunner

- Introducing BIND and ZoneRunner
- Configuring BIND Files with ZoneRunner

Appendix B: Troubleshooting

- Working with F5 Support

Appendix C: Additional Resources

- Resources on MyF5, DevCentral, and More

Test and Certification

Vouchers are purchased directly from the test delivery providers.

- Pearson VUE
- Certiverse

For details, view F5's Certification website .

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
14 Dec 2026	Virtual Classroom	GMT	English	Instructor Led Online		~~£ 1,795.00~~ £1,615.50
25 Feb 2027	Virtual Classroom	GMT	English	Instructor Led Online		£1,795.00
15 Apr 2027	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
03 Jun 2027	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
22 Jul 2027	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
09 Sep 2027	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
28 Oct 2027	Virtual Classroom	BST	English	Instructor Led Online		£1,795.00
09 Dec 2027	Virtual Classroom	GMT	English	Instructor Led Online		£1,795.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.