



TRAINING OFFERING

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Configuring BIG-IP DNS (formerly GTM) v16.1

CODE:	LENGTH:	PRICE:
F5N_BIG-DNS-I	16 Hours (2 days)	€1,995.00

Description

This course gives networking professionals a functional understanding of the BIG-IP DNS system as it is commonly used. The course covers installation, configuration, and management of the BIG-IP DNS system, and includes a combination of lecture, discussion, and hands-on labs.

Topics covered in this course include:

- v14.1 Course Topics
- BIG-IP initial setup (licensing, provisioning, and network configuration)
- Overview of the Domain Name System and DNS resolution flow through BIG-IP DNS
- Configuring DNS listeners
- Accelerating DNS resolution with DNS Express, DNS cache, and DNS server load balancing
- Intelligent DNS resolution with wide IPs and wide IP pools
- Using probes and metrics to assist the intelligent DNS resolution process
- Intelligent DNS load balancing methods
- Monitoring intelligent DNS resources
- Logging GSLB load-balancing decisions
- Using DNSSEC
- Integrating iRules in the DNS resolution process
- Managing BIG-IP DNS sync groups

Objectives

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Configuring the Management Interface
- Activating the Software License
- Provisioning Modules and Resources
- Importing a Device Certificate
- Specifying BIG-IP Platform Properties
- Configuring the Network
- Configuring Network Time Protocol (NTP) Servers
- Configuring Domain Name System (DNS) Settings
- Configuring High Availability Options
- Archiving the BIG-IP Configuration
- Leveraging F5 Support Resources and Tools

v14.1 COURSE OUTLINE Chapter 1: Setting Up the BIG-IP System

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

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

- Using DNS Resolution Diagnostic Tools
- Introducing DNS Resolution with BIG-IP DNS
- BIG-IP DNS Resolution Decision Flow
- 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

Chapter 3: Accelerating DNS Resolution

- Integrating BIG-IP DNS into Existing DNS Environments

- 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

Chapter 4: Implementing Intelligent DNS Resolutions Using the Traffic Management Shell (TMSH)

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

Chapter 5: Using LDNS Probes and Metrics Configuring Probe Metrics Collection

- Introducing Load Balancing on BIG-IP DNS
- Using Static Load Balancing Methods
 - Round Robin
 - Ratio
 - Global Availability
 - Static Persist
- Other Static Load Balancing Methods
- Using Dynamic Load Balancing Methods
 - Round Trip Time
 - Completion Rate
 - CPU
 - Hops
 - Least Connections
 - Packet Rate
 - Kilobytes per Second
- Other Dynamic Load Balancing Methods
- Using Quality of Service Load Balancing
- Persisting DNS Query Responses
- Configuring GSLB Load Balancing Decision Logs
- Using Manual Resume

Chapter 6: Load Balancing Intelligent DNS Resolution Using Topology Load Balancing

- Exploring Monitors
- Configuring Monitors
- Assigning Monitors to Resources

Chapter 7: Monitoring Intelligent DNS 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

Audience

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

Prerequisites

There are no F5-technology-specific prerequisites for this course: However, completing the following before attending would be helpful for students with limited BIG-IP administration and configuration experience:

Administering BIG-IP instructor-led course
or

F5 Certified BIG-IP Administrator

The following free web-based courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at F5 University:

Getting Started with BIG-IP web-based training

Getting Started with BIG-IP DNS web-based training

The following general network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course:

OSI model encapsulation
Routing and switching
Ethernet and ARP
TCP/IP concepts
IP addressing and subnetting
NAT and private IP addressing
Default gateway
Network firewalls
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

Need more information - please go to F5 webpage under "Education"

Session Dates

On request. Please [Contact Us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)