



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Kronborgsgränd 7, 164 46 Kista

Email: edu.ecs.se@arrow.com

Phone: +46 8 555 188 00



Configuring BIG-IP DNS (formerly GTM) v15.1

CODE:	LENGTH:	PRICE:
F5N_BIG-DNS-I	16 Hours (2 days)	kr20,400.00

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

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

Chapter 8: Advanced BIG-IP DNS Topics

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"

Programme

Introducing the BIG-IP System
Initially Setting Up the BIG-IP System
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Importing a Device Certificate
Specifying BIG-IP Platform Properties
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Configuring Domain Name System (DNS) Settings
Configuring High Availability Options
Archiving the BIG-IP Configuration
Leveraging F5 Support Resources and Tools

v13 COURSE OUTLINE Chapter 1: Setting Up the BIG-IP System

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

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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

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Identifying Logical Network Components
Collecting Metrics for Intelligent Resolution
Configuring Data Centers
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Configuring a BIG-IP LTM System as a Server
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Configuring Wide IPs
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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

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Session Dates

På begäran, [kontakta oss](#)

Ytterligare information

[Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.](#)