

## **Enterprise Computing Solutions - Education Services**

# **TRAINING OFFERING**

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### Configuring BIG-IP DNS (formerly GTM) v17.1

CODE: LENGTH: PRICE:

F5N BIG-DNS-I 16 Hours (2 days) kr22,500.00

#### **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:

v13 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**

#### v17.1 COURSE OUTLINE

#### Chapter 1: Setting Up the BIG-IP System

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

**BIG-IP System Setup Labs** 

#### 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
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

Using the Traffic Management Shell (TMSH)

#### **Chapter 5: Using LDNS Probes and Metrics**

Introducing LDNS Probes and Metrics

Types of LDNS Probes

Excluding an LDNS from Probing

Configuring Probe Metrics Collection

#### Chapter 6: 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 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

**Using Topology Load Balancing** 

#### **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** 

#### **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**

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
27 Nov 2025	Virtual Classroom (CET / UTC +1)	CET	English	Classroom	Yes	kr22,500.00

### Tilleggsinformasjon

Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.