

F5 Networks Administering BIG-IP v12 (F5-NetAdmin-v11)

Modality: Virtual Classroom

Duration: 2 Days

SATV Value:

CLC:

NATU:

SUBSCRIPTION: No

About this Course:

The course will provide the prerequisite knowledge for many other of F5 BIG-IP instructor-led training courses, such as LTM, GTM, ASM and EM. Pre-requisite(s): OSI model, TCP/IP addressing and routing, WAN, LAN environments, and server redundancy concepts

This IT Ops Training course will act as a prerequisite information that will aid your understanding of other F5 BIG-IP instructor-led training courses such as LTM, GTM, ASM and EM. Pre-requisite(s): OSI model, TCP/IP addressing and routing, WAN, LAN environments, and server redundancy concepts

Course Objectives:

- Getting started with the BIG-IP system
- Begin the theoretical and practical learning of the BIG-IP system
- Traffic processing with BIG-IP Local Traffic Manager (LTM)
- Learn how to do traffic processing with the use of BIG-IP Local Traffic Manager (LTM)
- Using the TMSH (TMOS Shell) command line interface
- Become acquainted with the TMSH (TMOS Shell) command line interface
- Using NATs and SNATs
- Start using the NATs and SNATs
- Monitoring application health and managing object status
- Learn how to accurately monitor the health of the application and also manage the status of the object

- Modifying traffic behavior with profiles, including SSL offload and re-encryption
- Mastering the modification of traffic behaviors along with profiles that include SSL offload and re-encryption
- Modifying traffic behavior with persistence, including source address affinity and cookie persistence
- Building familiarity with how to modify traffic behavior with persistence, inclusive of source address affinity and cookie persistence
- Troubleshooting the BIG-IP system, including logging (local, high-speed, and legacy remote logging), and using tcpdump
- Always-On Management (AOM)
- User roles and administrative partitions
- vCMP concepts
- Customizing application delivery with iRules

Audience:

This course is intended for network operators who are responsible for managing the normal day-to-day operation of a BIG-IP environment. This course presents the prerequisite knowledge for many other of F5 BIG-IP instructor-led training courses.

Prerequisite:

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

- Getting Started with BIG-IP web-based training
- Getting Started with BIG-IP Local Traffic Manager (LTM) web-based training

Course Outline:

Lesson 1 : Setting up BIG-IP System

Introducing the BIG-IP System

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

Lesson 2 : Traffic Processing Building Blocks

Identifying BIG-IP Traffic Processing Objects
Network Packet Flow
Configuring Virtual Servers and Pools
Load Balancing Concepts
Viewing Statistics and Logs
Using the Traffic Management Shell (tmsh)
BIG-IP Configuration State and Files
Saving and Replicating Configuration Data (UCS and SCF)
Viewing the BIG-IP Connection Table

Lesson 3 : Using NATs and SNATs

Address Translation on the BIG-IP System
NAT Concepts
Solving Routing Issues with SNATs
Configuring SNAT Auto Map on a Virtual Server
Monitoring for and Mitigating Port Exhaustion

Lesson 4 : Monitoring Application Health

Introducing Monitors
Types of Monitors
Monitor Interval and Timeout Settings
Configuring Monitors
Assigning Monitors to Resources
Managing Pool, Pool Member, and Node Status
Using the Network Map

Lesson 5 : Modifying Traffic Behavior with Profiles

Introducing Profiles
Understanding Profile Types and Dependencies
Configuring and Assigning Profiles

Lesson 6 : Modifying Traffic Behavior with Persistence

- Understanding the Need for Persistence
- Introducing Source Address Affinity Persistence
- Introducing Cookie Persistence
- Introducing SSL Offload and SSL Re-Encryption
- Managing Object State

Lesson 7 : Troubleshooting the BIG-IP System

- Configuring Logging
- Using tcpdump on the BIG-IP System
- Leveraging the BIG-IP iHealth System
- Working with F5 Technical Support

Lesson 8 : Administering the BIG-IP System

- Always On Management (AOM)
- Expanding Availability with Device Service Clustering
- User Roles and Administrative Partitions
- vCMP
- iApps Overview

Lesson 9 : Customizing Application Delivery with iRules

- iRules Concepts
- iRules Events
- iRules Resources

Lesson 10 : Additional Training and Certification

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