Configuring BIG-IQ

Duration: 2 Days Course Code: ARR_F5N_BIG-CFG Version: 17.1 Delivery Method: Virtual Learning

Overview:

Learn how to deploy and operate BIG-IQ to centrally manage BIG-IP devices. Using a mix of lectures and hands-on lab exercises, gain real-time experience in first setting up and administering the BIG-IQ and BIG-IQ Data Collection Device (DCD) systems, examining the BIG-IQ approach to managing BIG-IP devices, then using it to discover and take remote management control of these devices and their associated BIG-IP LTM product modules.

Along the way, learn about software deployment, backup and restore, DNS, NTP, and SMTP configurations, editing and deployment of LTM network traffic passing objects, and central monitoring and reporting. Lastly, delve into other system configurations, like building a BIG-IQ High Availability (HA) pair and managing multiple BIG-IP devices configured in a cluster.

Updated November 2026

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

The course is for system and network administrators responsible for the installation, setup, configuration, and administration of the BIG-IQ system. Or, it can be undertaken by operators who require some knowledge of how the systems are setup, but usually concentrate on performing particular operational tasks whether on BIG-IQ or via BIG-IQ on the managed BIG-IP devices.

Objectives:

- By the end of this training, participants will be able to:
- Deploy, configure, and administer the BIG-IQ Centralized Management platform and Data Collection Devices (DCDs).
- Discover, onboard, and centrally manage BIG-IP LTM devices, including configuration deployment, licensing, backups, and certificate management.
- Configure and maintain essential BIG-IQ services such as DNS, NTP, SMTP, user access control, monitoring, and system backups/restores.
- Monitor, analyze, and report on BIG-IQ and BIG-IP environments using iHealth, QKView reports, events, alerts, and centralized reporting tools.
- Implement advanced management features including High Availability (HA), Device Service Clustering (DSC), and management of multiple BIG-IP devices and clusters through BIG-IQ.

Prerequisites:

Students must complete one of the following F5 prerequisites before attending this course:

- Administering BIG-IP (ILT)
- F5 Certified BIG-IP Administrator

Suggested Prework

The following free Self-Directed Training (SDT) courses, although optional, are helpful for any student with limited BIG-IP administration and configuration experience:

Testing and Certification

- *None*

- Getting Started with BIG-IP
- Getting Started with Local Traffic Manager (LTM)
- Getting Started with BIG-IQ

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.

Follow-on-Courses:

- *None recommended*

Content:

- BIG-IQ Centralized Management
- BIG-IQ Approach
- BIG-IQ Core Functionality
- REST API
- BIG-IQ Data Collection Device (DCD)
- BIG-IP Cloud Edition (CE)
- Setting Up the BIG-IQ System Administering the BIG-IQ System
- Controlling Access to the BIG-IQ
- Creating, Authenticating, Configuring Users and their Roles
- System Backups
- Configuring DNS, NTP, and SMTP
- Monitoring the BIG-IQ, DCD, and BIG-IP events and alerts
- Monitoring BIG-IQ with iHealth
- Post Installation Issues; Licensing, Changing Management IP, Master Key, Restoring Backups
- Managing BIG-IP LTM Devices
- BIG-IP LTM Device Discovery
- BIG-IP Device Backup
- Deploying to BIG-IP Devices, Various Methods and Logs
- BIG-IQ Configuration Snapshots
- Managing BIG-IP Certificates
- Managing BIG-IP Licenses
- Monitoring BIG-IP Devices with iHealth
- Management of QKView Reports from Managed BIG-IP Devices
- Setting Up the BIG-IQ Data Collection Device
- Custom Role Types and Groups
- Setting up User Accounts with custom roles and privileges
- Managing BIG-IP DSC
- Discovery and management of BIG-IP Device Clusters (DSC) with BIG-IQ
- Administering BIG-IQ High Availability
- Configuration and management of BIG-IQ systems in a High Availability pair

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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