F5 : Administration BIG-IP

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SII-298 **2 Days (14 Hours)**

Description

Currently, BIG-IP is an Application Delivery Controller (ADC) that improves performance by optimizing data flows in Application Delivery Networks (ADN). This training allows participants to gain a functional understanding of the BIG-IP v14 system, as it is commonly deployed in networks.

Who is this training for ?

For whom

Network administrators, operators and engineers responsible for managing the normal day-to-day operations and administration of a BIG-IP application delivery network

Prerequisites

- It is recommended to have completed the following free online training courses "Getting Started with BIG-IP" and "Getting Started with Web BIG-IP Local Traffic Manager (LTM)" for participants with limited experience BIG-IP administration and configuration

Training objectives

- Knowledge of BIG-IP system configuration, startup, restart, shutdown and immediate launch
- Be able to create a basic network configuration on the BIG-IP system, including VLANs and standalone IP addresses
- Learn how to use the installer and TMSH to manage BIG-IP resources
- Learn how to create, restore, and maintain BIG-IP archives
- Ability to view resource status, availability and statistical data
- Know how to perform basic troubleshooting and troubleshooting activities using the iHealth diagnostic tool
- Understanding and managing roles and results
- Learn how to install and manage a sync failover

Training program

CONFIGURATION DU SYSTÈME BIG-IP

- BIG-IP system overview
- Initial configuration of the BIG-IP system
- Management interface configuration
- Activate the license Software
- Provisioning Modules and Resources
- Import a Device Certificate
- Specifying BIG-IP Platform Properties
- Network configuration
- Configuring Network Time Protocol (NTP) servers
- Configuring Domain Name System (DNS) settings
- Configuring high availability options
- Archiving the BIG-IP configuration
- Leveraging F5 resources and support tools

ELÉMENTS DE BASE DU TRAITEMENT DU TRAFIC

- Identifying BIG-IP traffic processing objects
- Configuring virtual servers and pools
- Traffic load balancing
- View module statistics and logs
- Using the Traffic Management Shell (TMSH)
- Understanding the TMSH hierarchical structure
- Navigating the TMSH hierarchy
- Managing BIG-IP status and configuration files
- BIG-IP system configuration status
- Loading and saving system configuration
- Shutdown and restart the BIG-IP system
- Backup and replication of configuration data (UCS and SCF)

UTILISATION DE NAT ET DE SNAT

- Address translation on the BIG-IP system
- Mapping IP addresses with NATs
- Troubleshooting routing problems with SNATs
- Configuring SNAT Auto Map on a virtual server
- Port monitoring and mitigation

SURVEILLANCE DE L'ÉTAT D'INTÉGRITÉ DES APPLICATIONS

- Monitor Overview
- Monitor Types
- Monitoring Interval and Delay Settings
- Monitor Configuration
- Assigning monitors to resources
- Managing the status of pools, pool elements, and nodes
- Using the network map

MODIFICATION DU COMPORTEMENT DU TRAFIC À L'AIDE DE PROFILS

- Profile overview
- Understanding profile types and dependencies
- Configure and assign profiles
- SSL Offload and SSL Re overview -Encryption
- Object state management

MODIFICATION DU COMPORTEMENT DU TRAFIC À L'AIDE DE LA FONCTION DE PERSISTANCE

- Understanding the need for persistence
- Introduction to source affinity persistence
- Managing object state

ADMINISTRATION DU SYSTÈME BIG-IP

- Logging Setup
- Legacy Remote Logging
- High Speed ??Logging (HSL) Overview
- Logging Filters High Speed
- HSL Configuration Objects
- Configuring High Speed ??Logging
- Using TCPDUMP on BIG-IP System
- Leveraging the BIG-IP iHealth system
- Viewing BIG-IP system statistics
- Setting user roles and administrative partitioning Leveraging vCMP

CONFIGURATION DE LA HAUTE DISPONIBILITÉ

- Device Service Clustering (DSC) overview
- Preparing to deploy a DSC configuration
- Configuring DSC communication parameters
- Establishing device trust
- Establishing a failover and sync device group
- Synchronize configuration data
- Exploring group behavior
- Understand failover handlers and triggers Successfully perform mirrored state failover