ITTcert
BY ORSYS

Course : F5 - Configuring BIG-IP LTM: Local Traffic Manager (BIG-LTM)

Official F5-BIG-LTM course, F5 exam preparation.

Practical course - 3d - 21h00 - Ref. LTM

With this training course, network professionals will gain a functional understanding of BIG-IP Local Traffic Manager, covering the most commonly used and advanced features and functionalities of BIG-IP LTM. Comprising a theory-based course supplemented by extensive hands-on work and discussion, the course will equip participants with the skills they need to manage BIG-IP LTM systems as part of a flexible, high-performance application distribution network.

Teaching objectives

At the end of the training, the participant will be able to:

- Back up BIG-IP system configuration to ensure security
- Configure virtual servers, pools, monitors, profiles and persistence objects
- Test and verify application delivery by the BIG-IP system using local traffic statistics
- Configure activation of priority groups on a load balancing pool
- Compare and contrast member-based and node-based dynamic load balancing methods
- Configure virtual service types to support different types of traffic processing
- Configuring different SNAT types to support traffic routing via a BIG-IP system
- Configure SNMP alerts and interrupts for remote monitoring of the BIG-IP system
- Use an iApp template supplied by F5 to deploy and manage a website application service

Intended audience

System and network administrators responsible for installation, configuration and administration of the BIG-IP LTM system.

Prerequisites

Have completed the "F5 - BIG-IP Administration" training course or be a certified BIG-IP F5 Administrator (F5-CA).

Certification

This training course prepares you for the certification "F5 Certified Technology Specialist, BIG-IP LTM". The certification "F5 Certified Administrator, BIG-IP" is required to pass this certification exam.
Comment passer votre examen ?

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

1　BIG-IP system configuration

- Introducing the BIG-IP system.
- Initial configuration of the BIG-IP system.
- BIG-IP configuration archiving.
- Use of resources and support tools F5.

2　Examination of local traffic configuration

- Nodes, pools and virtual servers.
- Address translation.
- Routing assumptions.
- Application status monitoring.
- Modify traffic behavior using profiles.
- The TMOS Shell (TMSH).
- BIG-IP configuration data management.

3　Load balancing methods with LTM

- Explore load balancing options.
- Use of priority group activation and backup host.
- Comparison between load balancing members and nodes.

4　Modifying traffic behavior with persistence

- Introduction.
- Cookie persistence.
- SSL persistence.
- SIP persistence.
- Universal persistence.
- Destination address affinity persistence.
- Options "Match Across" for persistence.

5 Application integrity monitoring

- Differentiate between monitor types.
- HTTP monitor customization.
- Address/port alias monitoring.
- Path monitoring vs. device monitoring.
- Multiple monitor management.
- Using application verification monitors.
- Using manual resume settings and the advanced monitor timer.

6 Handling traffic with virtual servers

- Understand the need for other types of virtual servers.
- Transfer traffic with a virtual server.
- Understand the priority order of virtual servers.
- Load balancing.

7 Traffic management with SNAT

- SNAT overview.
- Use of SNAT pools.
- SNAT as listeners.
- SNAT specificity.
- VIP Bounceback.
- Additional SNAT options.
- Examination of network packet processing.

8 Modify traffic behavior using profiles

- Profile overview.
- TCP express optimization.
- Overview of TCP profiles.
- HTTP profile options.
- OneConnect.
- Offload HTTP compression to BIG-IP.
- HTTP caching.
- Flow profiles.
- F5 accelerator technologies.

9 BIG-IP LTM advanced configuration options

- VLAN tagging and trunking.
- SNMP functions.
- Packet filters and route domains.

10 iRules and local traffic strategies

- Getting started with iRules.
- Triggering an iRule and presenting iRule constructs.
- Deployment and testing of iRules.
- Local traffic strategies: role and operation.
- Understand the local traffic strategy workflow.
- Elements of a local traffic strategy.
- Specify matching strategy.

(11) Securing application delivery with LTM

- Understand today's threat landscape.
- Integrating LTM into a security strategy.
- Defend your environment against SYN Flood attacks.
- Defend your environment against other volumetric attacks.
- Resolve application vulnerabilities with iRules and local traffic strategies.