

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.

PARTICIPANTS

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).

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

Prerequisites

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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.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

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.