

F5 BIG-IP LTM Specialist: Architect, Set up, Deploy (Exam 301a)

This F5 BIG-IP LTM Specialist: Architect, Set up, Deploy (Exam 301a) training covers how to efficiently configure, secure and optimize F5 devices with a focus on robust application delivery and traffic management. This course covers the skills and knowledge necessary to configure, manage and secure F5's local traffic manager (LTM). For experienced network security professionals, expanding your skills with this F5 exam prep is a strong investment in your future.

[CBT Nuggets course material](#) →

WEEK 1

Determining Necessary Configuration Objects

Determine The Least Amount Of Objects Necessary
Understanding Dependencies Of Configuration Objects
Identify Unnecessary Configuration Objects
Differences Between Virtual Servers and Virtual Addresses
Verify Where A Virtual Server Is Listening
Persistence Profile Performance
Health Monitors and Aliases
Validation

Discussing Local Traffic Policies & LTM Profiles

Introduction
Local Traffic Policies
Creating Local Traffic Policies
Managing LTM Policies with TMSH
LTM Profiles and Settings
SSL Profiles
SSL Profile Settings
Validation

Identifying Needed LTM Profiles

Introduction
TCP + HTTP Profiles
HTTP/2 Profile
FastHTTP Profile
Fast L4 Profile
Stream Profile

Which Profile Should We Use?

Validation

WEEK 2

Choosing Deployment Methods and Profiles

Introduction

Deployment Methods

Deployment Methods

Auto Last Hop

LTM Profile Settings To Deploy OneConnect

Scenario Exercise

Layer 4 Communication Protocols

Performance Impact of LTM Profile Settings

Validation

Choosing Virtual Servers & Load Balancing Methods

Introduction

L2 and L3 Forwarding Virtual Servers

Standard and Performance (Layer 4) Virtual Servers

Internet Contact Adaption Protocol (ICAP) and the Big-IP

Reviewing Load Balancing Methods

Choosing A Load Balancing Method

Validation

Configuring Multi-Tiered Applications

Introduction

Multi-tiered Applications

Which Virtual Servers To Use?

Do We Need SNAT or Persistence?

SSL Settings

Choosing Which Profiles To Use

Load Balancing and Health Monitors

Validation

Digging Into SNAT

Introduction

Connection-Based Load Balancing vs Packet-Based Load Balancing

Is SNAT Required and If So, What Type?

WEEK 3

Intelligent SNAT (iSNAT)

SNAT With The Original Client IP Address

Returning Traffic To The LTM Without SNAT

Validation

Advanced Management of VS's, iRules, and iApps

Introduction

Virtual Server Processing Order

Identify Why Virtual Server Fails To Receive Traffic

Determining When iRules Require a Virtual Server Profile

Determining iRule Persistence Requirements

Identifying and Modifying iApp Objects

Validation

Securing Virtual Servers and Self IPs

Introduction

Using Port Lockdown To Protect Services
Identifying Which Configuration Objects Are Allowing Accessibility
Services Necessary For High Availability (HA)
Limiting Access to Virtual Servers - 4 Options
Identify LTM Profile Settings Limiting Access To Virtual Servers
Validation

Managing UCS Files and Software Images

Introduction
UCS Files
Creating UCS Files
Restoring From A UCS File
Process For Deploying Software To An HA Pair

WEEK 4

Deploying A New Software Image To An HA Pair
Managing Software Images
Validation

Limiting Admin Access and Working With HA

Introduction
Configuring NTP Supporting Services
Limiting Administrative Access To The LTM
Restricting Access Using Administrative Partitions
Working With Traffic Groups
HA Groups
Traffic Groups and HA Groups Together
Failover Methods and Troubleshooting Failover

Validation

Config Changes and Multi-Tenant Environments

Introduction
How Will Configuration Changes Affect Connections
Restricting Access to LTM Using User Roles
Administrative Partitions
Route Domains
Securing Multi-Tenant Big-IP Environments
Validation

Virtual Cloud Multiprocessing (vCMP)

Introduction
What is Virtual Clustered Multiprocessing (vCMP)?
vCMP Guest Deployment

WEEK 5

Network Configuration Objects on a vCMP Host vs vCMP zGuest
vCMP Upgrade Rules of Thumb
How To Upgrade vCMP Hosts
Upgrading vCMP Guests
Validation

Exam Preparation Questions

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Series 1
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Series 3

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Series 5

Series 6

Series 7

Series 8