



Eduva Tech

F5

LOADBALANCER

BIG-IP LTM

SYLLABUS

Prepared For :

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Course Outline

INSTALLING & INITIAL ACCESS

- BIG-IP LTM Overview
- Licensing and the setup utility
- Installation and Setup Labs
 1. Lab Changing Initial IP Address.
 2. Lab Licensing The System
 3. Lab Setup Utility
 4. Lab Configuration Utility
 5. Lab Configuration Backup Utility
- BIG-IP Hardware Platform
- What's outside BIG-IP
- What's Inside BIG-IP
- Building block of F5



COMPONENTS

- Nodes
 1. Lab using GUI
 2. LAB using CLI
- Pool
 3. Lab using GUI
 4. LAB using CLI
- Pool Members
 5. Lab using GUI
 6. Lab using CLI
- Virtual-server
 7. Lab using GUI
 8. LAB using CLI

LOAD BALANCING

- Virtual Servers & Pools
- Network Map
- Load Balancing Modes
- Configuring Load Balancing
 1. Load Balancing with Pool Members
 2. LAB using GUI & CLI





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VIRTUAL-SERVER FOR IPV6

- Ipv6 Virtual Server Configuration
 - IPv6 Virtual Server to IPv4 Backend Server Configuration
- 1.LAB

MONITORS

- Monitor Concepts
 - Monitor Configuration
 - Monitor Assignment
 - Monitor Status Reporting
- 1.Labs Monitor
 - 2.Modified Lab Monitor

PROFILE

- Profile
- Profile Types and Dependencies
- Protocol Profile Types and Setting
- Configuring Profiles
- Configuring Parent And Child Profile

PERSISTENCE

- Persistence
- Source Address Based Persistence
- 1.LAB – Source Address Based Persistence
- Destination Address Based Persistence
- 2.LAB – Destination Address Based Persistence
- Cookies Based Persistence
- 3.LAB – Cookies Based Persistence
- Object Management
- 4.Disabled and Enable Members



PROCESSING SSL TRAFFIC

- SSL Termination/Initiation
- SSL profile Configuration
 - 1.LAB Client SSL Termination
 - 2.LAB Server SSL Termination

CONFIGURATION PROJECT

LAB Including all the Servers And Client & BIG-IP

NATS AND SNATS

- NATs
- LAB NAT
- SNAT
- LAB SNAT
- Auto-map
- LAB Automap

IRULES

- iRules Concepts
- iRules Events
- Types of iRules
- Different Ways To Use iRules
- iRule Editor
- Configuring iRules
- LAB iRules





INSTALLATION OF A REDUNDANT BIG-IP

- Redundant Pair Concept
- Synchronization State and Failover
- Redundant Pair Labs
- Lab Redundant Pair Setup
- Synchronization
- Redundant Pair Communication

HIGH AVAILABILITY

- Requirements
- Concept of High Availability
- Fail-over Triggers
- Fail-over Trigger Configuration
- LAB
- Fail-over Detection
- LAB

MAINTAINING & TROUBLESHOOTING BIG-IP LTM

- Additional Tools And Resources
- Logs
- SNMP
- iHealth
- QKView
- analytics
- TCP Dumps
- EUD
- ASK-F5
- BIG-IP Logging Method
- BIG-IP Log Facilites