

## F5-TRG-VPR-1 Configuring BIG- on VIPRION v15.1

### Overview

This course provides network professionals with a functional understanding of the BIG-IP VIPRION platform. It includes an overview of the chassis, hardware options, Clustered Multiprocessing (CMP) and virtual CMP (vCMP) deployment options. The course includes lectures, demonstrations, hands-on labs, and discussions.

### Course Length

1 days

### Topics covered in this course Include

- BIG-IP VIPRION system setup
- VIPRION chassis and blade hardware options overview
- Clustered MultiProcessing (CMP)
- Configuring virtual CMP (vCMP) host and guests
- High-Availability with vCMP and non-vCMP systems
- Hardware maintenance and basic troubleshooting
- Lab projects

### Audience

This course is intended for system and network administrators responsible for installation, setup, configuration, and administration of the BIG-IP VIPRION system. You will benefit from first attending the Configuring BIG-IP LTM instructor-led training and having several months or more experience configuring BIG-IP LTM before attending this course.

### Prerequisites

Students must complete one of the following F5 prerequisites before attending this course:

- Administering BIG-IP instructor-led course
- F5 Certified BIG-IP Administrator

The following free web-based courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at LeranF5:



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- Getting Started with BIG-IP web-based training
- Getting Started with BIG-IP Local Traffic Manager (LTM) web-based training
- Getting Started with VIPRION web-based training

The following general network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course:

- OSI model encapsulation
- Routing and switching
- Ethernet and ARP
- TCP/IP concepts
- Chapter 1: IP addressing and subnetting
- NAT and private IP addressing
- Default gateway
- Network firewalls
- LAN vs. WAN

### Course Outline

- Chapter 1: Introducing the VIPRION System Architecture
  - Introducing the VIPRION System
  - VIPRION 2000 Series Chassis
  - VIPRION 4000 Series Chassis
  - Primary and Secondary Blades
  - VIPRION Cables and Transceivers
  - Other Components
- Chapter 2: Setting Up a BIG-IP VIPRION System
  - Initial BIG-IP Setup Utility Steps
  - Archiving the BIG-IP Configuration
  - BIG-IP vCMP Enabled Appliance Setup Lab
- Chapter 3: Load Balancing Traffic with CMP
  - What is CMP?
  - VIPRION Features and Technologies
- Chapter 4: Running VIPRION with vCMP
  - What is vCMP?
  - vCMP Licensing and Provisioning
  - F5 Virtualization



- vCMP Host and vCMP Guests
- Physical and Logical Cores
- Virtual Disks
- Flexible Resource Allocation
- Chapter 5: Configuring a High Availability Deployment in a VIPRION System
  - High Availability Configuration
  - Introducing Device Service Clustering (DSC)
  - Preparing to Deploy a DSC Configuration
  - Configuring DSC Communication Settings
  - Establishing Device Trust
  - Establishing a Sync-Failover Device Group
  - Synchronizing Configuration Data
  - Exploring Traffic Groups Behavior
  - Non-vCMP System High Availability
- Chapter 6: Managing Blades and Performing Hardware Maintenance
  - Recommended VIPRION Practices
  - Full Cluster Start-Up
  - Adding a New Blade
  - VIPRION Troubleshooting Commands
  - Troubleshooting Tools
  - Contact F5 Technical Support
  - End User Diagnostics (EUD)

