Administering VELOS

Category: Networking & Security | **Vendor:** F5

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Gain a functional understanding of the F5 VELOS platform. Review F5OS platform layers, hardware components, and configuration of system controllers, chassis partitions, and BIG-IP tenants. Differentiate between VELOS and VIPRION in the areas of cabling, blades, chassis partitions, VLANs and LAGs, BIG-IP tenants, and vCMP guest configurations. Configure a VELOS chassis partition, create and modify a BIG-IP tenant, and create system controller and chassis partition backup configuration files. Activate a BIG-IP tenant and create traffic processing objects. Create a BIG-IP backup UCS file and restore it. Practice basic VELOS troubleshooting using basic VELOS system commands, QKviews, logging, and tcpdump output.

Topics covered in this course include:

- VELOS introduction
- Chassis system controller setup
- Chassis partition setup
- BIG-IP tenant creation and modification
- Basic VELOS troubleshooting

About This Course

- Introducing VELOS
- Comparing VELOS to VIPRION
- Setting Up VELOS System Controllers
- Setting Up VELOS Chassis Partitions
- Managing Tenants
- Configure BIG-IP Tenant High Availability
- Basic VELOS Troubleshooting

Who Should Attend

This course is intended for system and network administrators responsible for installation, setup, configuration, and administration of the F5 VELOS system.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

By the end of this course, you will be able to:

- Describe VELOS system chassis-blade architecture
- Describe F5OS platform layers
- Configure chassis system controllers, chassis partitions, and BIG-IP tenants
- Identify and resolve basic troubleshooting problems using tools such as LED indicators, log messages, and tcpdump

Detailed Course Outline

Chapter 1: Introducing VELOS

Introducing Major Components

- CX410 Chassis
- BX110 Blade
- Blade Numbering
- SX410 System Controller
- System Controller Diagram/Architecture

Introducing Other Components

- Front Bezel
- Power Supplies
- Power Controllers
- Fan Tray

Key Concepts: Partitions and Tenants

- Defining Partitions

- Multiple Single-Blade Partitions Example

- Multi-Blade Partitions Example

- Tenants

VELOS Software Management Domains

- Management Domains

- System Controller

- Chassis Partition

- Tenant

- F5OS

VELOS Naming Convention

- CX=VELOS Family Chassis

- SX=System Controller

- BX=Blade

Licensing

- License requires activation initiated with base registration key

- Partitions and tenants inherit the license (just like VIPRION)

Lab: View System Controller Settings

- Access the GUI and explore the Dashboard, System Inventory, Licensing, General

- Access the CLI and explore the command: show running-config

Chapter 2: Comparing VELOS to VIPRION

How we got here and F5OS architecture

- Compare cabling, blades, chassis partitions, VLANs & LAGs, tenants & vCMP guests, and bare metal configurations.

- No lab

Chapter 3: Setting Up VELOS System Controllers

System Controllers

- Discuss system controllers’ redundancy and high availability.

VELOS Setup Wizard

Chassis Partitions

- Discuss chassis partitions and how to group blades together.

Lab: Create Chassis Partition

- Each student creates a 1-blade partition –must do sequentially.

Lab: Create System User Accounts

- Each student creates an operator to demonstrate read-only access.

Lab: Create System Controller Backup

- Each student creates a system controller backup.

Chapter 4: Setting Up VELOS Chassis Partitions

Port Groups, VLANs, LAGs, and Interfaces

- Discuss heterogeneous Port Group Modes, VLANs, LAGs, and interfaces.

Lab: Create Port Groups

- Each student configures port group in their partition.

Lab: Add VLANs

- Each student adds VLANs to their partition.

Lab: Create LAGs and View Interfaces

- Each student creates a LAG and views the interfaces to determine if they are up and operational.

Tenant Image Considerations

- Discuss Tenant Image types.

Demo: Download BIG-IP Tenant

Lab: Create a BIG-IP Tenant

- Each student creates a BIG-IP tenant in their partition.

Lab: Modify a BIG-IP Tenant

- Demonstrates how some fields can be changed “on the fly” while other fields require changing the state which stops tenant processing.

Lab: Create a Partner BIG-IP Tenant for High Availability (HA)

Optional Lab: Create a BIG-IP Tenant via CLI

Optional Lab: Create a BIG-IP Tenant via API

Lab: Partition Backup

- Each student backs up their partition configuration.

Chapter 5: Managing Tenants

BIG-IP Tenants

- Confirm student’s knowledge of BIG-IP systems can be applied to BIG-IP tenants.

Lab: Run Setup Utility on a BIG-IP Tenant

- Each student runs the Setup Utility to activate the tenant.

Lab: Create Traffic Processing Objects

- Each student creates a pool and virtual server and drives application traffic.

Lab: Create BIG-IP Tenant Backups and Restore

- Each student creates a tenant backup and restores the backed-up file.

Chapter 6: Configure BIG-IP Tenant High Availability

High Availability (HA) Overview

Lab: Verify System Settings on Primary BIG-IP Tenant

Lab: Activate Partner BIG-IP Tenant

- Each student runs the Setup Utility on partner system

Lab: Establish an Active Standby Pair of BIG-IP Tenants

- Each student creates an active standby pair of BIG-IP tenants

Lab: Test Failover

Chapter 7: Basic VELOS Troubleshooting

Troubleshooting Tools and Techniques

- Read and identify basic LED behavior
- QKview Introduction
- Configure and view logging
- Generate tcpdump output
- Run basic VELOS system commands

Lab: Generate a Chassis Partition Qkview and Upload to iHealth

- Perform via the GUI
- Optionally perform via the CLI

Lab: View VELOS Event Logging

Lab: Generate a tcpdump

- Generate a system controller tcpdump output
- Run tcpdump filtering through a single interface
- Run tcpdump option and send output to a file

Lab: Perform VELOS System Commands

Skills You Will Learn:

By the end of this course, you will be able to:

- Describe VELOS system chassis-blade architecture
- Describe F5OS platform layers
- Configure chassis system controllers, chassis partitions, and BIG-IP tenants
- Identify and resolve basic troubleshooting problems using tools such as LED indicators, log messages, and tcpdump

Frequently Asked Questions

Q: What delivery options are available for Administering VELOS?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Administering VELOS course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Administering VELOS training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Administering VELOS?

Yes, we provide corporate training, dedicated training, and closed classes for Administering VELOS. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Administering VELOS, F5 Networks, VELOS

Q: Why choose Nexus Human for Administering VELOS?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Administering VELOS training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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