

Pluribus Professional Services

Realize Your ROI Now

You have made the decision to keep your organization at the leading edge of these changes with your decision to purchase Pluribus Networks technology. Now maximize the return on that investment with Pluribus Networks Professional Services.

Implementing technology to manage your most critical business assets has to be done right. Our comprehensive Jumpstart, Education and Installation services will aid your business to cost-effectively deploy, secure and manage your network resources. Our team of consultants are the best in the industry and they possess the skills and expertise to help you succeed. Don't just keep up, lead the way with training on the latest technology that combines virtualized networks, compute, and storage resources into an open and programmable platform.

Our services help by providing expertise in installing, configuring and integrating Pluribus products in our customers' networks:



Jumpstart Service

For customers who would require a quick evaluation-deployment start.

- Existing Network & Setup Assessment.
- Switch Setup
- Switch OS Install/Upgrade
- Basic configuration
- Basic Switch Features Demo
- Troubleshooting Best Practices, Switch Management Training
- Advanced Feature Configuration and Demo
- Network Integration
- Fabric Analytics and Demo



VCF™ Insight Analytics Installation Service

VCF™ Insight Analytics (VCF-IA) is an application that enables a network administrator to extract, analyze and generate reports from application flows that are serviced through Pluribus Networks' switches, powered by Netvisor operating system (nvOS) or Open Netvisor Linux (ONVL). Our Professional services team will help you get started on the following:

- Configuring Pluribus Switches
- VCF Insight Analytics Install
- VCF Insight Analytics Demo



Education Services

Comprehensive training to give you the skills needed to maximize the return on your Pluribus investment. Master our Netvisor® /Open Netvisor Linux (ONVL) operating system and our VCFcenter™ analytics platform with our course offerings.



Remote Install Service

Assessment, Setup, Basic Configuration and Demoing

- Existing Network & Setup Assessment.
- Switch Setup
- Basic Configuration and Demo



Jumpstart Service

Our Jumpstart Service Program offers the following deployment package to customers who would require a quick evaluation-deployment start:

Existing Network & Setup Assessment

Onsite/Remote study of your network (equipment) setup to identify the environment variables and deployment requirements. Pluribus Devices are designed to play a variety of roles within the Datacenter infrastructure, so we will need to Network Architecture and the needs for a successful implementation.

Our Professional services team will review the existing services, device configuration and scope your requirements – Existing and Future Ones. Identify Business critical applications and any Non-Standard/Custom configuration. Reviewing your existing Network setup will also help identify the compatibility requirements for pluribus gear to function & Inter-Op with other vendor products already deployed.

Switch Setup

To complete the initial switch setup, we would gather the following datasets and complete the Setup via MGMT Port or console. After completing this setup, Administrators can SSH and login to the switch using the newly configured MGMT IP.

- a. System Name
- b. Network-Admin Account Password
- c. Management Interface IP Address and Subnet Mask
- d. In-Band IP Address and Subnet Mask
- e. Default Gateway IP Address for MGMT Subnet.
- f. Primary & Secondary DNS Server IP Address (Optional)
- g. Domain name for the Switch (Optional)
- h. NTP Server Name (Optional)
- i. Time zone (Optional)
- j. Banner (Optional)

Switch OS Install/Upgrade

Factory shipped switches might not have the latest OS installed, so we will identify the correct OS release that meets customer requirements and upgrade the pluribus gear using Online/Offline software upgrade methods depending on customer environment.

Basic configuration

After completing the Physical Layer connections required for the Pluribus Gear, based on the requirements gathered during the Network & Setup Assessment we will configure pluribus switches with the following:

- a. Switch Fabric, VNET configuration
- b. STP, Vlan configuration
- c. Interconnect Switch Port & Trunk configuration
- d. Switch cluster
- e. Vrouter and VLAN VRRP
- f. VLAG Configuration

Basic Switch Features Demo

We will demonstrate the following features and their functionality based on the switch configuration

- a. Fabric Upgrade Demo
- b. Cluster Failover Demo
- c. VRRP Failover Demo
- d. VLAG Demo

Troubleshooting Best Practices, Switch Management Training

With this Onsite Servicer, we offer the following:

- a. Troubleshooting Best practices
- b. Support required Dataset gathering
- c. Switch Management and Administration.

Advanced Feature Configuration and Demo

Our Advanced Feature configuration includes the following services:

- a. Routing Configuration
- b. Packet Relay, flow.
- c. Switch Management – SNMP, Tacacs, Syslog.
- d. Other Custom requirements.

Network Integration

We understand every network environment is diversified with different vendor products & equipment's. We will help integrate Pluribus gear with your existing environment and ensure a successful implementation.

Multiple Exploratory sessions are required to assess the existing configuration and capture the Inter-Op requirements. Additional Physical Layer connections might be required along with the equipment (pluribus & vendor) configuration.

Fabric Analytics and Demo

Today's network architectures tend to be complex, rigid, and unable to meet the utmost levels of speed and efficiency demanded by the business. These infrastructures are heavily dependent upon the direct replication of desired network traffic, which in practice only provides insight into a fraction of overall and necessary East-West traffic flows. This cost is a large barrier to obtaining crucial information used in capacity planning, performance analysis and application workload optimization.

Pluribus Switches provide application flow visibility using Flow telemetry, Flowtrace, Wireshark, vFlows and vPorts. We will demonstrate these analytics capabilities with few use-cases.



Education Services

Comprehensive training to give you the skills needed to maximize the return on your Pluribus investment. Master our Netvisor® /Open Netvisor Linux (ONVL) operating system and our VCFcenter™ analytics platform.

You have made the decision to keep your organization at the leading edge of enterprise network designs with your decision to purchase Pluribus Networks technology. Now maximize the return on that investment with Pluribus Networks Education.

With Pluribus Networks training, you make your network a competitive asset not just a cost center. Don't just keep up, lead the way with training on the latest technology that allows you to cost effectively make your data center IT environment much more agile with greater insight and enhanced security.

Pluribus Networks training offerings:

Netvisor Administration course

This course teaches the fundamentals of Pluribus Networks products and solutions. Students are provided with knowledge to successfully describe, install, configure, monitor, and maintain a switch running Netvisor.

Hardware and management components are covered including the Freedom Spine and Leaf switches, other Netvisor/ONVL-enabled switches, and the Netvisor/ONVL command line interface.

Students will receive classroom training and hands-on experience with Pluribus Networks products and technology.

This 2-day instructor-led course is designed for experienced network and server administrators.

VCFcenter Administration course

This course teaches the fundamentals of VCFcenter and its component applications (Insight Analytics and Packet Analytics). Students are provided with knowledge to successfully install, configure, and manage VCFcenter and its applications.

This 3-hour live online course is designed for new VCFcenter administrators, prior Netvisor training is not required.



VCF™ Insight Analytics Installation Service

VCF™ Insight Analytics (VCF-IA) is an application that enables a network administrator to extract, analyze and generate reports from application flows that are serviced through Pluribus Networks' switches, powered by Netvisor operating system (nvOS) or Open Netvisor Linux (ONVL). Our Professional services team will help you get started on the following:

Configuring switches running Netvisor or Open Netvisor Linux:

- License and Basic Switch Setup
- If Pluribus switch is receiving mirrored traffic from a 3rd party device – configure ports just to absorb the data for analytics purpose only.
- Enable services that require VCF-IA to work

VCF Insight Analytics Install and Demo

- Install VCF-IA virtual machine (Linux based) on VMware ESXi infrastructure
- Initial configuration of virtual machine that includes, SSL cert install, configuring Pluribus switch fabric information, starting necessary VCF-IA services.
- Configure external authentication (LDAP) for VCF-IA user interface.
- Demo of VCF-IA dashboard, search and reporting tools.
- Ability to add business and application context to flows with custom defined 'tags'.

VCF Insight Analytics Installation prerequisites:

- VMware ESXi hypervisor environment with vSphere / vCenter version 5.5 or above.
- Minimum hardware requirements: Depending on the number of flows license (10M or 100M), either of the following:
 - 4 vCPU, 64GB RAM, 64GB SSD
 - 8 vCPU, 64GB RAM, 400GB SSD
- Thin provisioning of disks and deployment on SSD is recommended.
- Network connectivity from VMWare ESXi environment to Pluribus fabric management network or out of band management network.



Remote Install Service

Remote Installation of Pluribus Switch is performed over Phone or Web based Remote screen sharing sessions with the customer.

Remote Install Requirements

Prior to the installation, our Professional services team will gather preliminary data on the existing Network Setup, equipment's, requirements and Deployment schedule. Pre-planning phase includes data gathering, scheduling and Project Coordination.

Out-of-Band Management (IPMI, MGMT, Console) access is a key requirement for a successful remote install.

Our Remote Install Service offers the following

- Existing Network & Setup Assessment.
- Switch Setup
- Basic Configuration and Demo

About Pluribus Networks

Pluribus Networks provides fabric networking and analytics solutions that transform existing network infrastructures from being rigid, costly and complex, into a foundation for modern digital-centric businesses. Our Virtualization-Centric Fabric (VCF™) provides unprecedented insight, agility and security to create the industry's only combined SDN and Network Performance Monitoring (NPM) offering.

Learn more at <http://www.pluribusnetworks.com/services/> and [@pluribusnet](#).