

OpenArchitect “QuickStart”: Structured Training & Project Workshop



Description and Objectives

OpenArchitect QuickStart is a one-week combination of Structured Training and a Project Workshop. Attendees get a rapid “knowledge transfer” that trims months off a design team’s learning curve.

Goals for QuickStart includes: 1) an understanding of the feature set provided by the OpenArchitect platform, 2) HA Suite functionality, and 3) designing a framework architecture for the embedded Ethernet solution supporting the client’s application design.

Structured Training

Structured Training provides the foundation knowledge. Training course materials are presented in lecture sessions. Each session is followed by a hands-on lab. The Structured Training provides the design team an understanding and hands-on experience with OpenArchitect’s extensive features.

Project Workshop

The Project Workshop gets the client’s design team immediately focused on how to leverage the rich feature set of OpenArchitect and OpenArchitect/HA. From high availability embedded Ethernet to transparent IP failover to sophisticated packet filtering, the tools are available within OpenArchitect to create a winning application system.

The Project Workshop starts with an “elbow-to-elbow” whiteboard session where the instructor works with the design team to craft an embedded Ethernet architectural framework. Next, the hands-on session starts the proof-of-concept prototype for the framework configuration.

Schedule and Duration

QuickStart consists of Structured Training for three days, Project Workshop for two days, and 90 days of follow-up responses.



Course Outline

- ❖ CompactPCI overview
- ❖ OpenArchitect (OA) overview
- ❖ Survey OA compatible hardware and features
- ❖ Review OA boot process
- ❖ OA layer 2 overview and configuration
- ❖ Using Spanning Tree capabilities and configuration
- ❖ Using FF port and FF Bridge
- ❖ Layer 3 introduction and configuration examples
- ❖ Survey of routing protocols
- ❖ Switch management fundamentals
- ❖ Using Linux and ZNYX Networks Command Line Interface tools
- ❖ SNMP and MIBs overview, including configuration issues
- ❖ DHCP client, relay and server capabilities
- ❖ Syslog
- ❖ OpenArchitect High Availability architecture overview
- ❖ Creating end-to-end HA with ZNYX Networks OA Node and transparent IP failover
- ❖ Creating HA redundant switch configurations with ZNYX Networks “SurvivingPartner”
- ❖ Creating firewall (packet filtering) with IPTables and zfilterd

Customization

The instructor can tailor the emphasis and time spent on specific content in standard training modules to meet client goals. This is done within the framework and pricing of the standard course.

QuickStart also may be customized to meet unique client needs. The customization process requires client consultation to determine "knowledge transfer" objectives, course modification and development, and course delivery. Customization is priced to the training specification.

On-Site Facilities Requirements

- ❖ Training room with projection system for PowerPoint presentation.
- ❖ Lab and workshop system including a chassis with two OpenArchitect managed switches, monitors or PCs for switch management interface, line cards required to build the prototype, packet generation environment and performance testing equipment (if part of prototype goals).
- ❖ The course is also offered at the ZNYX Professional Services location in Ottawa, Canada. At this site, facilities and equipment are provided by ZNYX Networks.

Prerequisites

- ❖ Familiarity with Internet technologies, Layer 2 switching, Layer 3 routing, VLANs and common management technologies.
- ❖ Familiarity with basic Linux (UNIX) operations and utilities.
- ❖ The design team provides a high level requirements document that defines the application configuration, i.e. type of line cards, interaction between cards, routing requirements, etc.

Training Expenses

Travel and lodging of the instructor is included in the course pricing. When training is conducted on-site, client is responsible for all out-of-pocket expenses, if any, required to facilitate training, such as rental of room facilities or projection equipment.

Lab Outline

- Lab 1: Installing hardware, booting OA devices, connecting to OA devices, downloading files and updating permanent storage exercises
- Lab 2: Upgrading boot image and administration exercises
- Lab 3: Spanning Tree configurations and FF port STP configuration exercises
- Lab 4: Static routing, RIP-1, RIP-2 and OSPF exercises
- Lab 5: CLI tool exercises
- Lab 6: SNMP management exercises
- Lab 7: DHCP: server, client, relay configuration exercises
- Lab 8: SYSLOG setup exercises
- Lab 9: HA configuration exercises
- Lab 10: Packer filtering exercises
- Lab 11: QoS packet scheduling exercises



Ordering Information

QuickStart OAT-101

Standard on-site five-day course and workshop.

QuickStart OAT-101c

Customized on-site five-day course and workshop.

For more information, contact a ZNYX Networks representative.
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