

HPE NonStop IP CLIM Network Management HT2K9S

HPE course number	HT2K9S
Course length	4 days
Delivery mode	ILT, VILT
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This HPE NonStop course teaches participants all the necessary steps to configure and manage HPE NonStop TCP/IP networking using IP CLIMs and CIP (Cluster I/O Protocols). In addition to teaching the basic TCP/IP configuration using IP CLIMs, more advanced features will also be explained. The course also teaches how to configure an interface with IPsec and IPTables including the steps to perform proper troubleshooting. The course is supported with exercises using an extensive HPE NonStop virtual lab environment.

Audience

- HPE NonStop system administrators
- Network engineers
- HPE professional services staff

Prerequisites

It is mandatory that participants have a good understanding of computer systems and HPE NonStop servers, as well as basic network knowledge. In addition, participants should have:

- Good knowledge of HPE NonStop server architectures
- Basic knowledge of the TCP/IP protocol

Course objectives

At the conclusion of this course, you should be able to:

- Configure the CIP subsystem
- Configure interfaces
- Configure IPsec and IPTables
- Properly configure failover
- List required software
- Troubleshoot network-related issues
- Find information in SCF (Subsystem Control Facility) related to IP CLIM Configuration

Detailed course outline

Module 1: Course Introduction	<ul style="list-style-type: none"> • Course objectives 	<ul style="list-style-type: none"> • Course schedule
Module 2: Introduction to IP CLIMs	<ul style="list-style-type: none"> • Overview of IP CLIMs • IP CLIM features (HPE NonStop I and HPE NonStop X) • IP CLIM connectivity overview 	<ul style="list-style-type: none"> • Patch panel • CLIMBACKUP and CLIMRESTORE
Module 3: CIP Subsystem	<ul style="list-style-type: none"> • Common I/O protocol explained • The socket access manager • Round robin filtering • SCF CUO object overview • TACL overview 	<ul style="list-style-type: none"> • Lab exercise <ul style="list-style-type: none"> – Navigate the CIP subsystem – Using CLIMCMD and CLIMCONFIG
Module 4: CLIM Features Explained	<ul style="list-style-type: none"> • CLIM processes explained • Multi-provider feature • Bonding • Multi-tenancy explained (VLAN/VXLAN/QoS) • Intra CLIM failover • CLIM to CLIM failover 	<ul style="list-style-type: none"> • Lab exercise <ul style="list-style-type: none"> – Configuring an interface with MPC enable – Configuring a LACP bond – Configuring a failover – Configure a VLAN interface
Module 5 – Automatic TCPIP Connection Failover	<ul style="list-style-type: none"> • CLIMFOM explained • UNC (unconnected) pre-ATCP • ATCP explained 	<ul style="list-style-type: none"> • Configuring failover • Lab exercise <ul style="list-style-type: none"> – Add a failover config with ATCF
Module 6 – IPTables for HPE NonStop	<ul style="list-style-type: none"> • IPTables explained • Configuring IPTable rules 	<ul style="list-style-type: none"> • Lab exercise <ul style="list-style-type: none"> – Using IPTables
Module 7 – IPSec for HPE NonStop	<ul style="list-style-type: none"> • IPSec explained • Authentication headers • Encapsulating security payload • Configuring IPSec using PSK 	<ul style="list-style-type: none"> • Configuring IPSec using certificates • Lab exercise <ul style="list-style-type: none"> – Using IPSec
Module 8 – Troubleshooting	<ul style="list-style-type: none"> • Troubleshooting the CIP subsystem • Troubleshooting from SCF • Troubleshooting from the IP CLIM 	<ul style="list-style-type: none"> • Lab exercise <ul style="list-style-type: none"> – Troubleshooting

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