

# HPE NonStop HTTP Server (NSHTTP) HT2K7S

<b>HPE course number</b>	HT2K7S
<b>Course length</b>	3 days
<b>Delivery mode</b>	ILT, VILT
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In this course, students learn the basics of installing, configuring and securing HPE NonStop HTTP Server solutions, as well as the management procedures needed to support the operation of HPE NonStop HTTP Server.

Hands-on lab exercise provide experience in the HPE NonStop HTTP Server environment. This instructor led course is 60 percent lecture and 40 percent hands-on labs using HPE NonStop X-Series servers.

The course is delivered virtually with remote access to perform lab exercises

## Audience

Personnel involved with installation, management and support of the HPE NonStop HTTP Server (NSHTTP) environment.

## Prerequisites

- A working knowledge of HPE Open System Services (OSS), Linux, UNIX
- At least 6-months experience with HPE NonStop systems

## Course objectives

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

- Explain what the HPE NonStop HTTP Server product is, and what it can do
- Describe the architecture of the HPE NonStop HTTP Server

- List the required HPE NonStop host software
- Describe how to install the HPE NonStop HTTP Server software
- Describe how to deploy the HPE NonStop HTTP Server software
- Explain how to change the configuration of the HPE HTTP Server host software
- List the various important files and directories of the HPE NonStop HTTP Server
- Explain how to manage the security of the HPE NonStop HTTP Server
- Explain how to manage log files of the HPE NonStop HTTP Server
- Troubleshoot the installation of the HPE NonStop HTTP Server
- Describe HPE NonStop Servlets for JavaServer Pages (NSJSP) integration differences
- Explain Pathway CGI programming

## Detailed course outline

### Module 1: Course Introduction

### Module 2: Product Overview and Architecture

- HPE NonStop HTTP Server key features
- Multi-processing module (MPM) architecture
- Statistics scoreboard

### Module 3: Comparing HPE NonStop HTTP Server with HPE NonStop iTP WebServer

- Feature by feature comparison of HPE NonStop HTTP Server with HPE NonStop iTP WebServer
- Possible future enhancements to HPE NonStop HTTP Server

### Module 4: Installing and Deploying HPE NonStop HTTP Server

- HPE NonStop HTTP Server requirements
- Installation steps
- Deployment steps
- Starting and stopping HPE NonStop HTTP Server

### Module 5: Implementing HPE NonStop HTTP Server Features

- HPE NonStop HTTP Server as a gateway server
- Scripting support for CGI, Python, Perl and PHP
- Dynamic scaling using HPE NonStop Middleware Elasticity Framework (NSMEF)
- Redis based in-memory cache configuration
- HPE NonStop HTTP Server monitoring

### Module 6: Configuring Security and OpenSSL

- Configuring security and OpenSSL
- Creating a self-signed certificate using OpenSSL
- Generating a certificate signing request using OpenSSL
- Displaying certificate information
- Installing a certificate

### Module 7: Using Selected Apache HTTP Server Directives

- Configuration file syntax
- Directives and scope
- Dynamic Shared Objects (DSO) and modules
- Information on selected directives

### Module 8: Logging

- Maintain the HPE Nonstop HTTP Server log files
- Monitor the HPE Nonstop HTTP Server HPE NonStop TS/MP environment
- Log formatting options
- Closing and saving log files

### Module 9: Troubleshooting

- HPE Nonstop HTTP Server logs
- Common HPE Nonstop HTTP Server and Apache warning/error messages

### Module 10: NSJSP Integration Differences

- NSJSP configuration considerations
- NSJSP configuration differences compared to HPE NonStop iTP WebServer

### Module 11: Pathway CGI Programming

- Describe the Pathway CGI implementation and explain how it differs from generic CGI
- Explain the interface between Pathway CGI servers and HPE NonStop iTP WebServer library routines
- Describe the difference between maintaining context in a standard Pathway server and in a Pathway CGI server
- Configure a Pathway CGI server class
- Explain the security design considerations of Pathway CGI servers
- Code and compile C language routines into Pathway CGI server classes

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