

HP Education Services

Quick Introduction to Java Servlets/NSJSP in the NonStop Environment (HH676S)



This one day introduction reviews the implementation of Java servlets on the NonStop platform using standard servlet APIs. Learn how Java servlets can be created and deployed on the NonStop platform using NonStop JavaServer Pages (NSJSP). Additional topics include the use of JPathsend facility for communicating with Pathway servers and use of JDBC to access SQL/MP and SQL/MX tables. This is a lecture-only course.

Audience

This overview course is intended for an audience wishing to gain insights into:

- What are Java servlets
- The creation and deployment of Java servlets on the NonStop platform
- The use of Java servlets to communicate with Pathway servers
- Accessing existing Pathway servers from browser environments

Prerequisites

- Open System Services (OSS) for UNIX Application Developers (U4187S) or
- Open System Services (OSS) for Guardian Developers (U4159S) or
- Ability to work within the NonStop OSS environment and
- Working knowledge of C and/or Java and
- Basic understanding of Pathway/TS product and
- Basic understanding of html statements and tags

Course title: Quick Introduction to Java Servlets/NSJSP in the NonStop Environment

HP product number: HH676S

Category/Subcategory: NonStop Server/Application Design and Development

Course length: 1 day

Level: Intermediate

Delivery language: English

To order: To review course schedules and to register for a course, visit www.hp.com/learn/nonstop and select your country from the drop down menu, or, contact your HP sales representative or HP authorized channel partner.

Course objective

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

- Describe the basics of Java servlets, including the servlet life cycle and related APIs
- Describe NonStop iTP WebServer
- Use NonStop JavaServer Pages (NSJSP)

- Use the Apache Tomcat container to code, compile, deploy, and execute Java servlets in the iTP WebServer environment
- Use JDBC to access SQL/MP and SQL/MX tables
- Use JPathsend to access existing Pathway server classes

Benefits to you

- Gain insights into Java servlet possibilities on NonStop platform to extend Pathway servers
- Understand the use of JDBC to access a SQL/MP or SQL/MX database in order to leverage standards-based interfaces
- Learn how to communicate with existing Pathway servers using Java servlets to extend their access to browser-based environments
- Create and deploy Java servlets on the NonStop platform using NSJSP

Why education services from HP?

- Focus on job-specific skills
- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
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Next steps

- iTP WebServer for NonStop Servers (U4160S)

Detailed course outline

Module 1 – Servlets on NonStop Servers

- Java servlet and Apache Tomcat
- NonStop servlets for NSJSP
- iTP WebServer architecture
- OSS application development environment
- NonStop plugins for Eclipse
- Java development environment

Module 2 – TS/MP and iTP WebServer Components

- Basic HP NonStop system principles
- HP NonStop Transaction Services/MP (TS/MP) environment

- Relationship between TS/MP and iTP WebServer environments
- NSJSP architecture
- Deploy Java servlet functionality into an iTP WebServer instance

Module 3 – Basic Servlet APIs

- Servlet lifecycle
- HTTP protocol
- Meaning and use of GET/POST methods
- Basic servlet APIs
- Sample servlet source code

Module 4 – Accessing SQL with JDBC

- What is JDBC?
- java.sql package contents
- JDBC API capabilities
- JDBC interfaces and their methods

Module 5 – Java Transactions

- Using JDBC to define transactions in Java
- Autocommit and non-autocommit modes
- Writing Java code to control JDBC-based and JTA-based transactions
- Using JTS and JTA to define transactions in Java
- Support for transactions using JDBC/MX

Module 6 – Pathsend API for Java

- JPathsend facility for communicating with Pathway server classes
- Major API classes and their usages
- Usage of the ddl2java utility
- API sending and receiving messages

Onsite Delivery Equipment Requirements

- This is a lecture-only course. There are no hardware or software requirements.

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