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## **JBoss WildFly Application Server**

### **Student Take away**

- Study Material
- Learning stuff
- Sample project for practice

### **JBoss WildFly Application Server Online Training Curriculum**

#### **Introduction**

- History of JBOSS
- Product Understanding of JBOSS
- What's new in JBOSS??
- Java EE 7 support in JBOSS
- Understand New Runtime Features
- Release notes for JBOSS
- Certifications and Supported Standards

#### **JBOSS WildFly Installation**

- Software prerequisites
- Installing WildFly
- Understanding WildFly's Directory Structure

#### **Running WildFly in Standalone Mode**

- Running WildFly from a custom configuration folder
- Binding WildFly onto a custom IP & Port
- Configuring multiple WildFly instances to run on the same machine with different IP or ports
- Managing applications using the deployments folder
- Connecting to the CLI & Checking the server-state via the CLI
- Deployments of an application via the CLI
- Executing commands in batch mode via the CLI
- Reloading a server configuration via the CLI
- Shutting down and restarting an instance via the CLI
- Suspending and resuming an instance via the CLI
- Backing up your configuration file via the CLI

#### **Running WildFly in Domain Mode**

- Running domain mode
- What is Domain Controller?
- What is Host Controller?
- Connecting the host controller to the domain controller

### **Running WildFly in Domain Mode** continues...

- Stopping and starting server groups via the Web Console
- Deploying and un-deploying an application to a specific server group via the CLI

### **Managing the Logging Subsystem with the CLI**

- Creating a file-handler logging
- Creating a periodic-rotating file-handler
- Creating a size-rotating file-handler
- Defining asynchronous handlers
- Creating a sys-log-handler
- Using a different logging implementation

### **Managing the Data source Subsystems with the CLI**

- Introduction
- Preparing a non JDBC-4 compliant driver
- Creating and removing a data source
- Checking the data source connection
- Reading the data source's statistics
- Setting a connection pool
- Creating and removing XA-Data source

### **Clustering WildFly [JGroups]**

- Creating a cluster in standalone mode
- Creating a cluster in domain mode

### **Load Balancing WildFly**

- Installing and configuring Apache HTTPD
- Installing and configuring module & cluster for Apache

### **Command Line Interface [Commanding the CLI]**

- Introduction
- Invoking CLI commands
- Checking the WildFly version
- Checking WildFly operational mode
- Getting the OS & JVM Status
- Monitoring & Checking the JVM

### **Securing WildFly Application Server**

- Securing Applications
- Securing Transportation Layer
- Securing domain and host controller communication
- Securing and protecting passwords using a vault
- Role-based Access Control with WildFly
- Managing users, groups and their role mapping

## **WildFly Messaging**

- Introduction
- Running the messaging system using Hornet Q
- Sending and receiving messages to/from a JMS queue destination

## **WildFly/JVM Tools**

- Profiling and sampling
- Visual VM
- Monitoring
- OS tools
- WildFly tools
- Generating load
- Apache JMeter

### ➤ **Tuning the Java Virtual Machine**

## **Tuning WildFly**

- Tuning the Web Container in WildFly
- JMS and Hornet Q
- WildFly Clustering

### ➤ **JBOSS Patching & Upgrades**

