



# webMethods Integration Workshop – Day 6



# Recap – Day5

## Learnt So Far (Recap & assessment)

- Adapter
- Adapter Run Time
- Adapter Service Templates, Connection Types
- Creation & Configuration of an Adapter
- Notifications
- Buffer table, trigger and handling service
- Scheduling Notifications

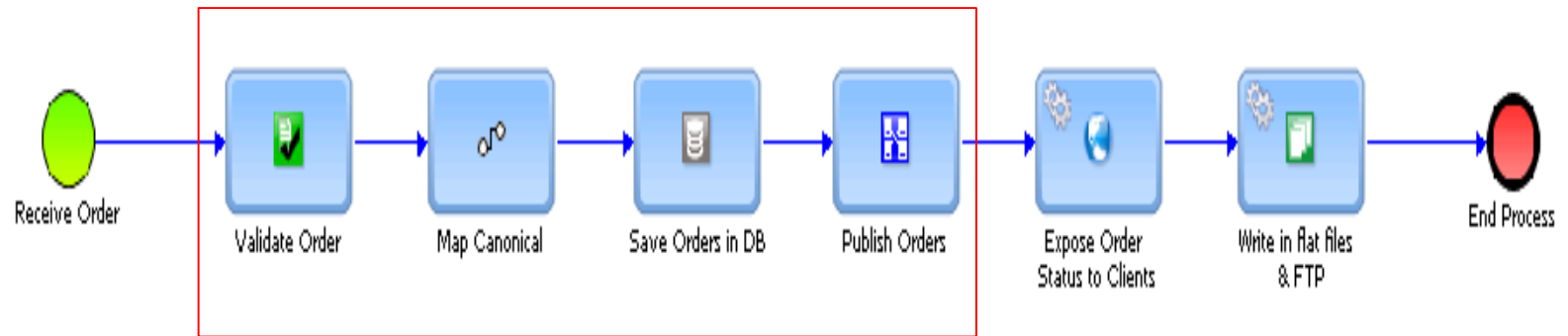
# Introduction

- ⑩ This course will help participants to understand the basics about Integration Server.
- ⑩ Participants will get hands on basic admin activities related to Integration Server.

# Objectives

- 10 Get hands on experience in basic admin activities
- 10 Theoretical clarity on Integration Server.

# webMethods Pilot Project Progress



## Outcome of this course :

Trainees should be able to perform basic admin activities in Integration Server (service logging, Brokers, clients, triggers etc .,) as part of the Practical session

# Software versions

- 10 This class focuses on the webMethods suite

webMethods Integration Server

Broker/UM

Software AG Designer

# Chapters

Day 6

Integration Server – Role & Features

Starting Integration Server

Integration Server Administrator

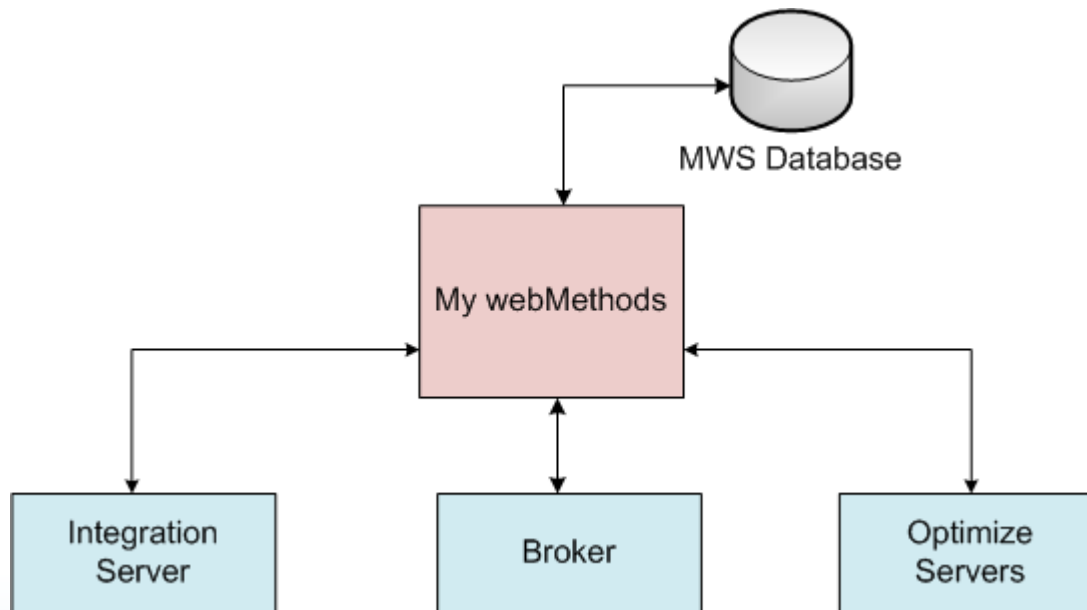
Package Management

ACL's

Trigger Management

# Role of Integration Server

- 10 It hosts packages, Trading Networks, adapters, process engine etc.,
- 10 Provides runtime environment for execution of services
- 10 Authenticates client and maintains audit logs

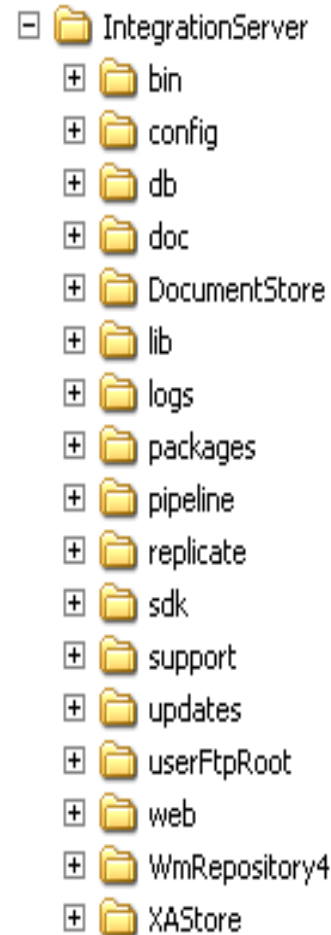
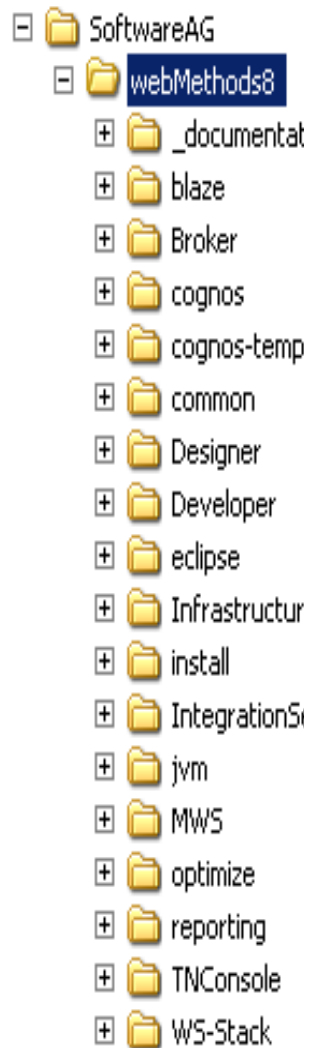




# Main Features

- 10 Secure communication
- 10 Logging
- 10 Load balancing
- 10 The Integration Server listens for client requests on one or more ports.
- 10 The server supports HTTP, HTTPS,FTP, FTPS, and e-mail ports.
- 10 Client requests involve executing one or more services.
- 10 The server maintains successfully loaded services as runnable objects within the server's program space

# webMethods & IS Folder Structure



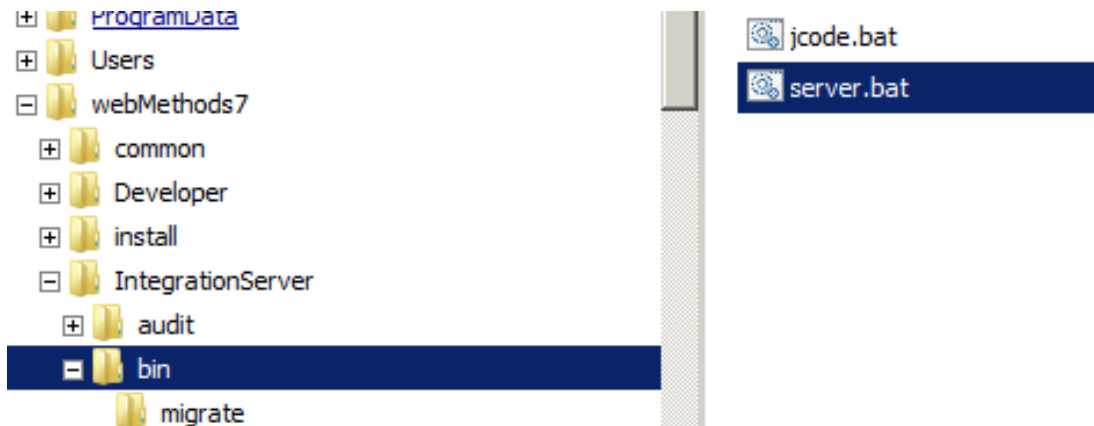
# Starting the Integration Server

- ⑩ In command prompt,  
IntegrationServer\bin\server.bat
- ⑩ For Windows: bin\startup.bat -switch -switch ...  
startup.bat -port -home -debug -log
- ⑩ -port      portNumber      Specifies the port on which the server listens for HTTP requests.
- ⑩ -home      directoryName      Specifies the complete path for the home directory.
- ⑩ -debug      level      Specifies the detail level you want server to maintain in server log for this session  
Fatal, Error, Warn, Debug, Info, Trace
- ⑩ -log      destination      Specifies where we want the server to write its server log information for this session  
filename, none



# Starting the IS Contd..

- 10 Run the batch file from integration server directory



- 10 Series of tasks performed are :

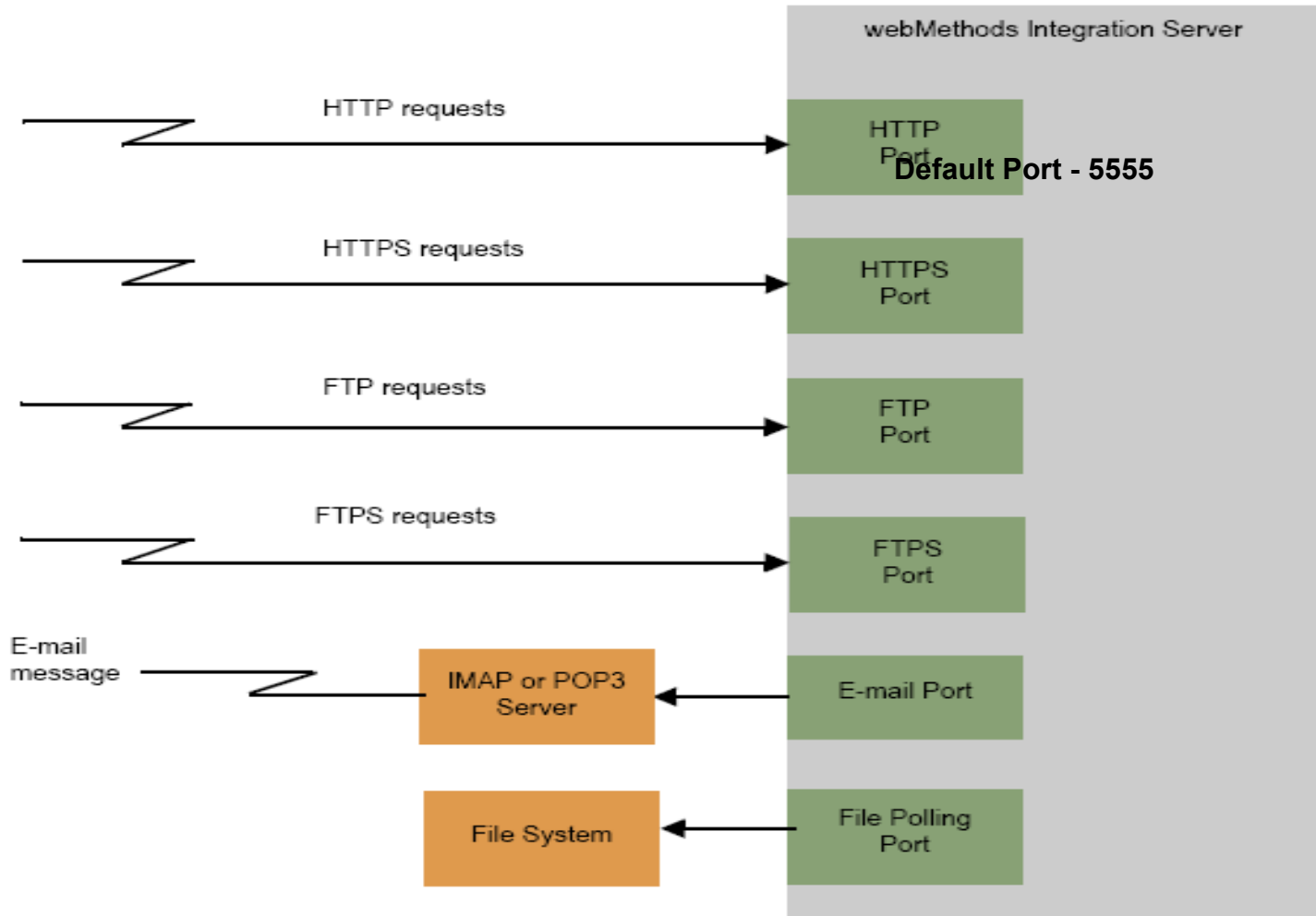
- Operating environment set up
- Initializes processes for internal management
- Load the packages
- Executes startup services

- 10 After the Integration Server is started

- Lock file is created
- Log file is created

# Integration server - Ports

The Server Listens for Requests on Ports that You Specify



# Integration Server Recovery

## 10 Tasks performed:

- Perform cleanup and initialization process
- Reload the cache environment to its pre-failure state
- Restores transaction manager's guaranteed delivery queues

## 10 Critical data files:

- ./audit/data
- ./DocumentStore
- ./WmRepository4

# Tasks performed by Administrator

- 10 Configuring server settings
- 10 View Server Statistics
- 10 Administering users and Groups
- 10 Administering server security
- 10 Managing packages
- 10 Managing Services
- 10 Configure adapter connections

# Server Settings & Statistics

## 10 Configuring server settings

- Changing License information
- Configuring ports
- Configuring where to store the logging information
- Configuring the server to connect to Broker
- Configuring extended settings

## 10 View Server Statistics

- Total number of sessions
- Number of threads created
- Uptime
- Service usage
- Number of requests completed



# Users and Groups Administration

- ⑩ The server uses Users and Groups for
  - Client authentication
  - Group membership
- ⑩ Purpose of Users and Groups
  - Configure and manage the server
  - Create, modify, and delete services that reside on the server
  - Access services and files that reside on the server
- ⑩ Administration activities
  - Predefined User Accounts
  - Defining User Accounts
  - Defining Groups
  - Assigning Users to Groups

# Security and ACL

## 10 Administering Server Security

- SSL Communication
- Controlling access to resources through ACLs

## 10 ACLs

list

read

execute

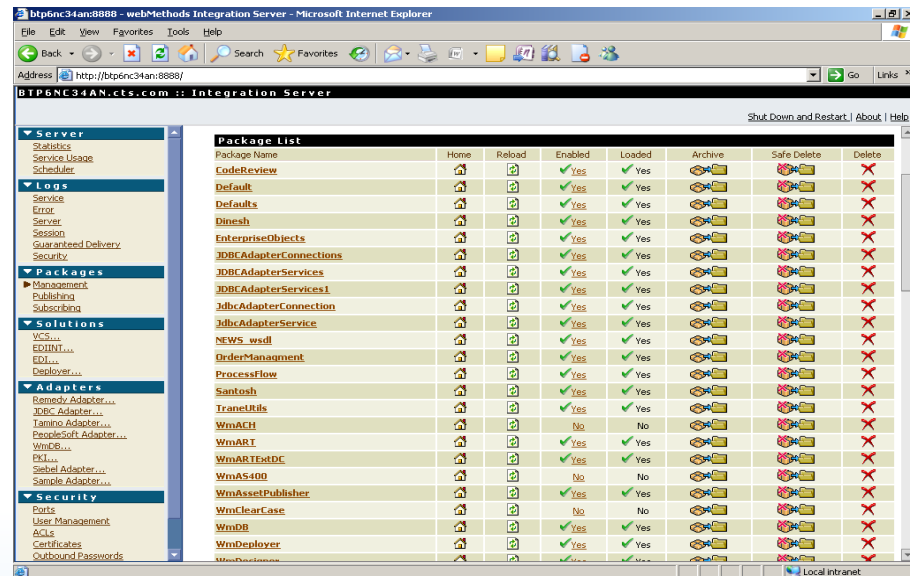
Creating ACLs

Assign an ACL to folder or service

# Managing Packages

- 10 Package is set of services and related files
- 10 Accessing packages is controlled through ACLs
- 10 All the packages are loaded into memory when the IS is started
- 10 Is comes with following predefined packages

- Default
- WmRoot
- WmART
- WmPRT
- WmPublic

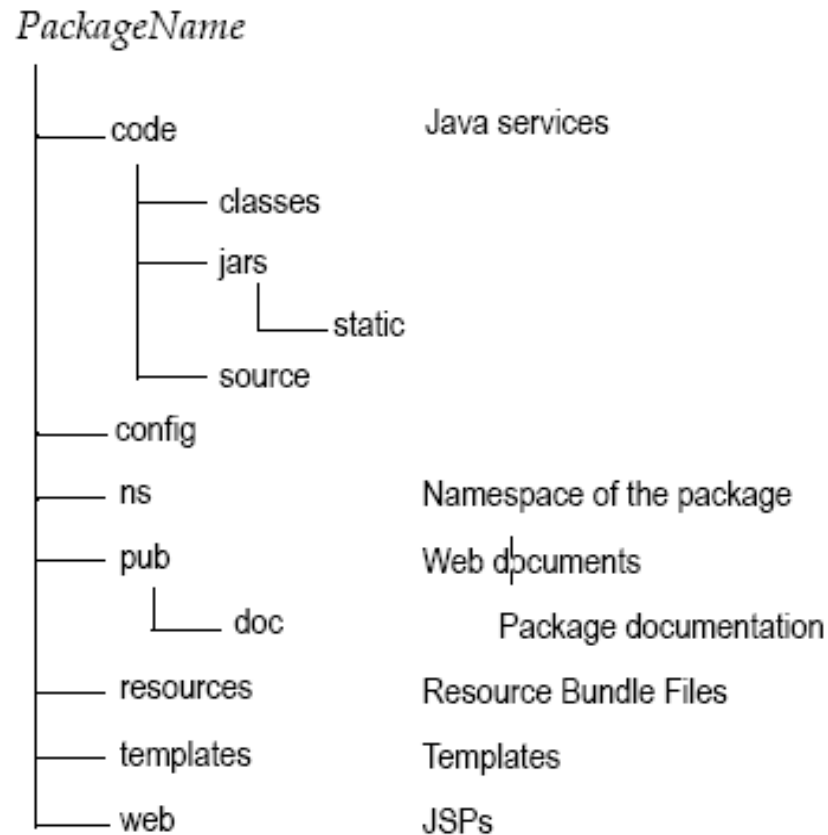


The screenshot shows the webMethods Integration Server interface in a Microsoft Internet Explorer browser window. The address bar shows the URL <http://bt6nc34an:8888/>. The page title is "BTP6NC34AN.cts.com :: Integration Server". The interface includes a left-hand navigation pane with categories like Server, Logs, Packages, Solutions, Adapters, and Security. The main content area displays a "Package List" table with columns for Package Name, Home, Reload, Enabled, Loaded, Archive, Safe Delete, and Delete. The table lists various predefined packages such as CodeReview, Default, Defaults, Dinesh, EnterpriseObjects, JDBCAdapterConnections, JDBCAdapterServices, JDBCAdapterServices1, JDBCAdapterConnection, JDBCAdapterService, NEWS\_wsdl, OrderManagement, ProcessFlow, Santosh, TransURLs, WmACH, WmART, WmARTExtDC, WmAS400, WmAssetPublisher, WmClearCase, WmDB, WmDeployer, and WmPublic.

Package Name	Home	Reload	Enabled	Loaded	Archive	Safe Delete	Delete
CodeReview	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Default	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Defaults	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dinesh	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EnterpriseObjects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JDBCAdapterConnections	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JDBCAdapterServices	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JDBCAdapterServices1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JDBCAdapterConnection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JDBCAdapterService	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NEWS_wsdl	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OrderManagement	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ProcessFlow	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Santosh	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TransURLs	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WmACH	Yes	No	No	No	Yes	Yes	Yes
WmART	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WmARTExtDC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WmAS400	Yes	No	No	No	Yes	Yes	Yes
WmAssetPublisher	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WmClearCase	Yes	No	No	No	Yes	Yes	Yes
WmDB	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WmDeployer	Yes	Yes	Yes	Yes	Yes	Yes	Yes



# Package Structure



# Working with Packages

- 10 Create
- 10 Delete
- 10 Activate
- 10 Reload
- 10 Disable
- 10 Enable
- 10 Publishing
  - Create release
  - Full release
  - patch release

# Working and Managing services

- 10 Service is a unit of functionality that client can invoke (flow service, java service, adapter service, C/C++ services)
- 10 Fully qualified name of a service
- 10 Service information can be monitored through Administrator
- 10 A service can be assigned with an ACL
- 10 Add the service to package through developer
- 10 Types of services
  - Startup Services
  - Shutdown services
- 10 Scheduling the execution of services
- 10 Executing a service in response to specific events

# Execution of Services

- 10 IS listens to the clients request at one or more ports
- 10 Client submits the request at the particular ports
- 10 IS authenticates the client
- 10 Look up for the service requested
- 10 IS checks if the requested service can be accessed through that port
- 10 Check the ACLs
- 10 Adds an entry to audit log
- 10 It invokes the specified service
- 10 Returns the result to client

# Trigger Management

## 10 Broker / Local triggers

- Managing document retrieval
- Managing document processing
- Limiting server threads for local/broker triggers
- Cluster synchronization for broker/local trigger management

## 10 JMS Triggers

- Controlling thread usage for JMS triggers
- Enabling, disabling, or suspending one or more JMS triggers
- Viewing exactly-once processing statistics





# Summary

What have we learnt today ?

- Integration Server Roles
- Integration Server Administrator
- Starting Integration Server
- Integration server folder structure
- Integration Server Package Management
- Integration Server ACL
- Integration Server Trigger Management.

# Q & A

- ❖ What are the different ways we can start the integration server ?
- ❖ What are the different Ports integration server supports ?
- ❖ What is the default port for Integration Server and how do we change
- ❖ What is a package and list the predefined packages of IS?
- ❖ Where does the JSP's are stored in Package Structure?
- ❖ What is the difference between disabling & deleting the package in Package management?
- ❖ What are startup & Shutdown services. How to configure them ?

Thank you