

Cognizant Technology Solution

Exercises – Integration Server

WebMethods Integration Workshop

WebMethods CoE

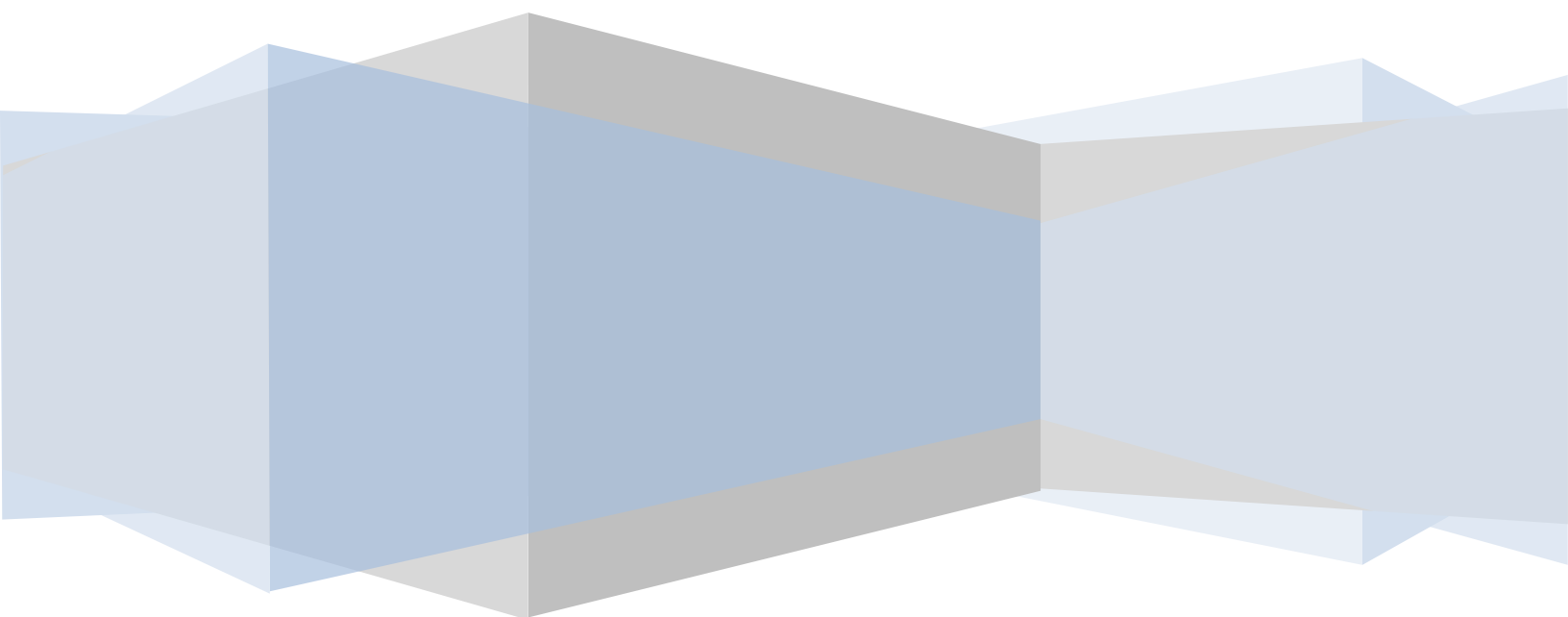


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Integration Server

Introduction

The webMethods **Integration Server** hosts packages that contain services and related files. The Integration Server comes with several packages. For example, it includes packages that contain built-in services that your developers might want to invoke from their services or client applications and services that demonstrate some of the features of the Integration Server. You can create additional packages to hold the services that your developers create. Your developers can create services that perform functions, such as, integrating your business systems with those of your partners, retrieving data from legacy systems, and accessing and updating databases.

The Integration Server provides an environment for the orderly, efficient, and secure, execution of services. It decodes client requests, identifies the requested services, invokes the services, passes data to them in the expected format, encodes the output produced by the services, and returns output to the clients. Additionally, the server authenticates clients, verifies that they are authorized to execute the requested service, maintains audit-trail logs, and promotes throughput using facilities such as service result caching.

In an IS environment, the **administrator** is responsible for installing, configuring, and maintaining the webMethods Integration Server. He or she is also responsible for ensuring the server is secure, available to clients, and running at peak performance. Usually, one person is appointed as the administrator, although most sites identify at least one other person to act as a backup.

The **Integration Server Administrator** is the utility you use to accomplish administrative tasks. You use it to monitor server activity, examine log information, add users, enable/disable services, and adjust the server's performance features.

Theory

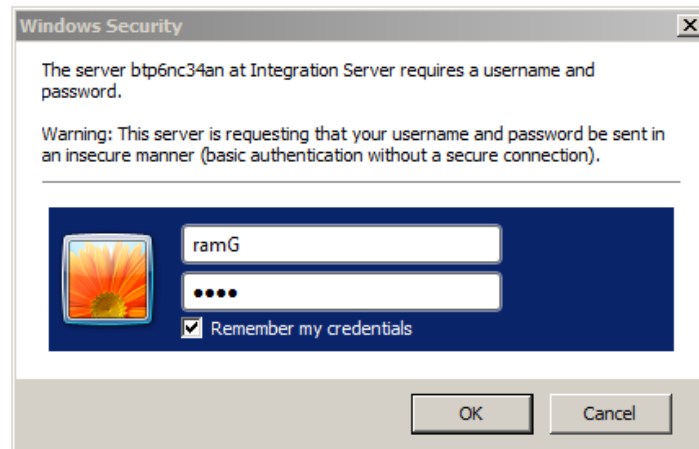
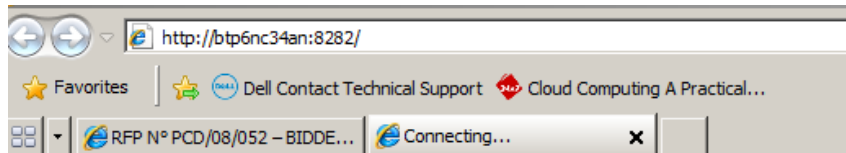
- 8-2-SP1_Administering_Integration_Server (Chapter 1-5, 22 & 23)

Practical

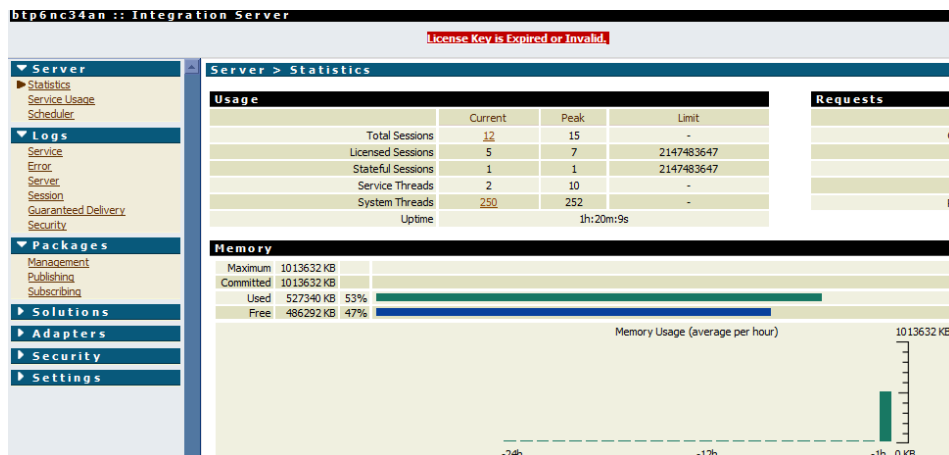
Integration Server Administrator

Simulate the following administrative actions on Integration server.

- Login into integration server administrator <http://hostname:port>. Contact your learning advisor to get the HostName, Port & Login credentials of Integration Server.



- Check through these menus – Statistics



- Logs,

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License Key is Expired or Invalid. [Shut Down and Restart](#)

- ▼ **Server**
 - Statistics
 - Service Usage
 - Scheduler
- ▼ **Logs**
 - Service
 - Error
 - Server
 - Session
 - Guaranteed Delivery
 - Security
- ▼ **Packages**
 - Management
 - Publishing
 - Subscribing
- **Solutions**
- **Adapters**
- **Security**
- **Settings**

Logs > Server

Log display controls

☐ Ascending sequence
 ☒ Descending sequence
 First line to display
 Number of entries to display

Server Log Entries as of 2011-08-08 14:14:59 IST

[1385]	2011-08-08 14:08:27 IST [ISS.0134.01140] Refreshed session for consumer: Service Thread Pool - Trigger - KT268921.triggers:msgMSTTrigger
[1384]	Invalid column index
[1383]	(17003) Invalid column index"
[1382]	[ADA.1.316] Cannot execute the SQL statement "SELECT t1.EMP_ID,t1.EMP_NAME,t1.EMP_ADDRESS,t1.EMP_SALARY FROM HR.EMPLOYEE_INFO t1 WHERE (t1.EMP_ID > 199) ", "
[1381]	2011-08-08 14:03:33 IST [ART.0114.1007E] Adapter Runtime: Error Logged. See Error log for details. Error: [ART.117.4002] Adapter Runtime (Adapter Service): Unable to invoke adapter s
[1380]	Invalid column index
[1379]	(17003) Invalid column index"
[1378]	2011-08-08 14:03:33 IST [ART.0114.1007E] Adapter Runtime: Error Logged. See Error log for details. Error: [ADA.1.316] Cannot execute the SQL statement "SELECT t1.EMP_ID,t1.EMP_NA
[1377]	Missing IN or OUT parameter at index:: 1
[1376]	(17041) Missing IN or OUT parameter at index:: 1"
[1375]	[ADA.1.316] Cannot execute the SQL statement "SELECT t1.EMP_ID,t1.EMP_NAME,t1.EMP_ADDRESS,t1.EMP_SALARY FROM HR.EMPLOYEE_INFO t1 WHERE (t1.EMP_ID = ?) ", "
[1374]	2011-08-08 13:56:14 IST [ART.0114.1007E] Adapter Runtime: Error Logged. See Error log for details. Error: [ART.117.4002] Adapter Runtime (Adapter Service): Unable to invoke adapter s
[1373]	Missing IN or OUT parameter at index:: 1
[1372]	(17041) Missing IN or OUT parameter at index:: 1"
[1371]	2011-08-08 13:56:14 IST [ART.0114.1007E] Adapter Runtime: Error Logged. See Error log for details. Error: [ADA.1.316] Cannot execute the SQL statement "SELECT t1.EMP_ID,t1.EMP_NA

- Packages,

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License Key is Expired or Invalid.

- ▼ **Server**
 - Statistics
 - Service Usage
 - Scheduler
- ▼ **Logs**
 - Service
 - Error
 - Server
 - Session
 - Guaranteed Delivery
 - Security
- ▼ **Packages**
 - **Management**
 - Publishing
 - Subscribing
- **Solutions**
- **Adapters**
- **Security**
- **Settings**

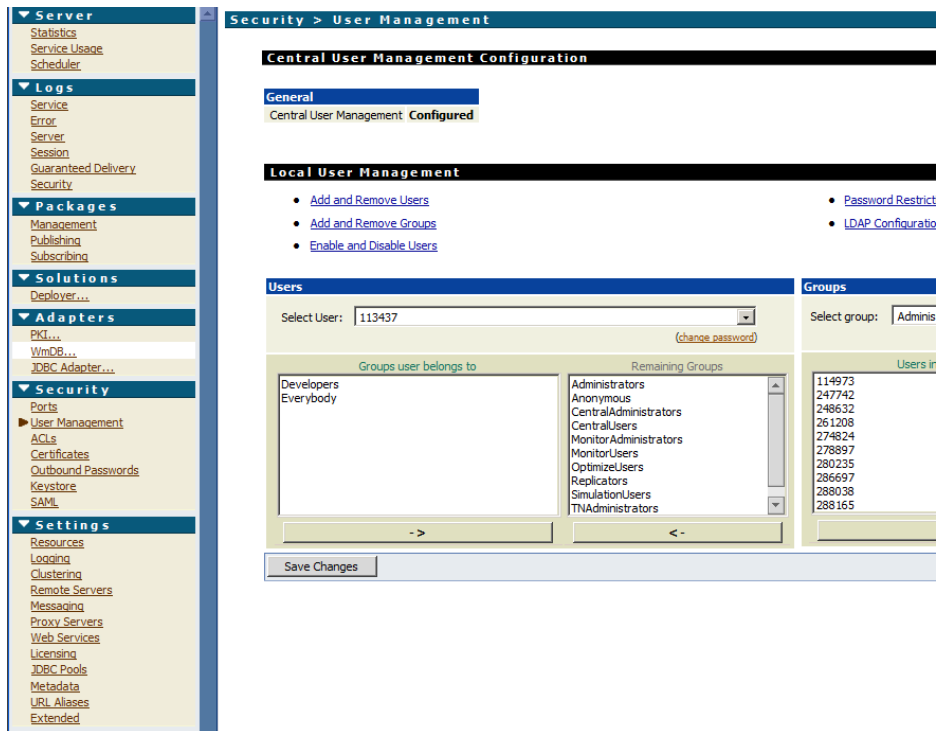
Packages > Management

- [Install Inbound Releases](#)
- [Activate Inactive Packages](#)
- [Recover Packages](#)
- [Browse Folders](#)
- [View Locked Elements](#)
- [Filter Packages](#)

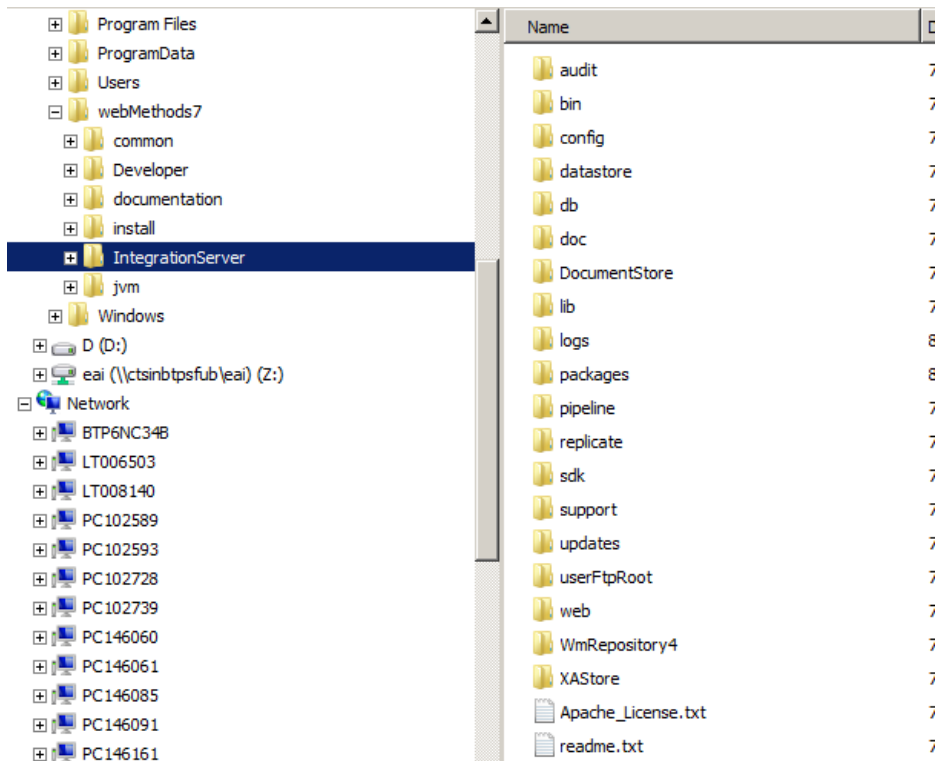
Package List

Package Name
198708
261089
269121BPM
288931
289381
291133

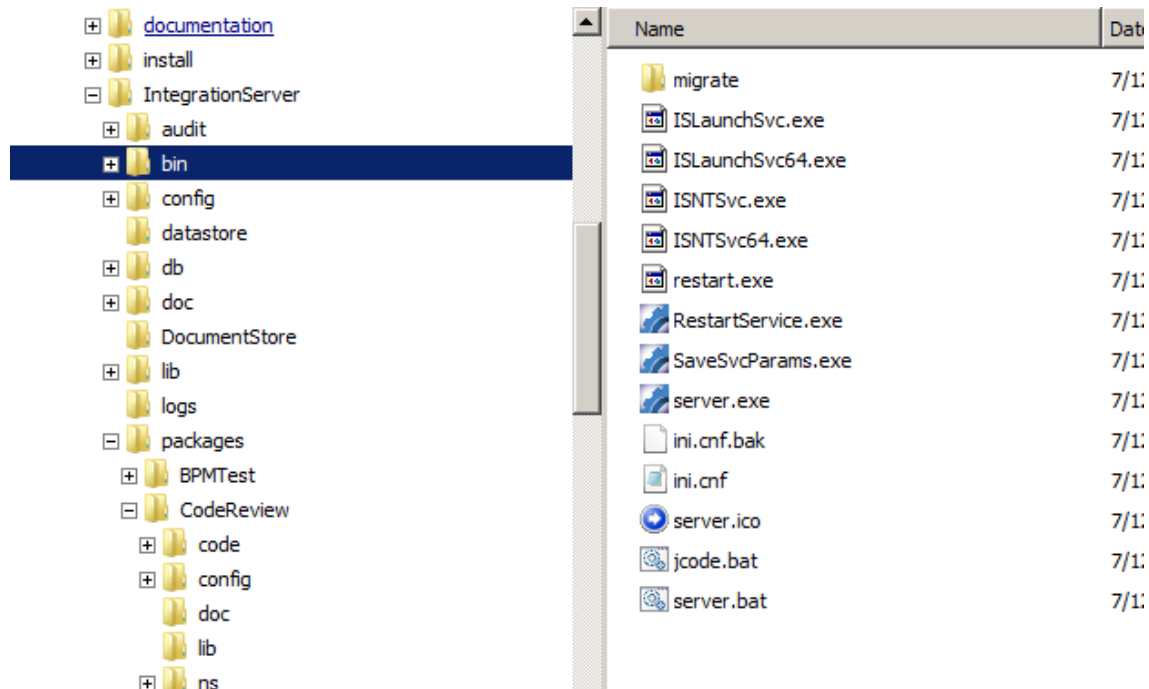
- Security & Settings,



- Check the backend webMethods & IS Folder structure.



- Browse the startup & shutdown scripts for Integration Server.



User Management

Simulate the following administrative actions on Integration server.

- Add a user under Security -> ACL's -> **Empid is your username and password.**

In Admin console Navigate to **Settings -> User Management.**

Security > User Management

Central User Management Configuration

General

Central User Management **Configured**

Local User Management

- [Add and Remove Users](#)

- [Return to User Management](#)

Create Users

User Names One "username" or "username;password" per line.

guestUsr 1

The password below will apply to all new users that do not have a password specified above.

Password

Re-Enter Password

Create Users

- Assign your login id into Developers group. Click Save Changes.

Central User Management Configuration

General

Central User Management **Configured**

Local User Management

- [Add and Remove Users](#)
- [Add and Remove Groups](#)
- [Enable and Disable Users](#)
- [Password Restrictions](#)
- [LDAP Configuration](#)

Users	Groups
Select User: 113437 (change password)	Select group: Administrators
Groups user belongs to Developers Everybody	Administrators Anonymous CentralAdministrators CentralUsers Developers Everybody MonitorAdministrators MonitorUsers OptimizeUsers Replicators SimulationUsers TNAdministrators
Remaining Groups Administrators Anonymous CentralAdministrators CentralUsers MonitorAdministrators MonitorUsers OptimizeUsers Replicators	114973 247742 248632 261208 274824 278897 280235 286697

Groups

Select group:

Users in this Group	Remaining Users
113437	114973
118426	Administrator
127066	Central
220588	Default
221415	ramG
221509	Replicator
234341	questUsr1
247256	
247742	
248632	

Success Message --

Security > User Management

User, group and ACL settings have been reloaded.

Central User Management Configuration

General

Central User Management **Configured**

Local User Management

- [Add and Remove Users](#)
- [Add and Remove Groups](#)
- [Enable and Disable Users](#)
- [Password Restrictions](#)
- [LDAP Configuration](#)

Settings

Simulate the following administrative actions on Integration server.

- Check the extended settings for your JVM and understand the options.
In Admin console Navigate to **Settings** -> **Extended**.

Settings > Extended

- [Edit Extended Settings](#)
- [Show and Hide Keys](#)

Extended Settings

Key=Value

```
watt.server.compile=E:\SoftwareAG\webMethods8.2\jvm\jvm160_32\bin\javac -classpath {0} -d {1} {2}
watt.server.control.maxPublishOnSuccess=60000
watt.server.invoke.maxRetryPeriod=120000
watt.server.ns.hideWmRoot=false
watt.server.publish.drainCSQInOrder=true
```

Extended settings are typically provided by webMethods Support

- watt.server.compile=E:\SoftwareAG\webMethods8.2\jvm\jvm160_32\bin\javac -classpath {0} -d {1} {2}.

- Check your messaging settings and note down the broker connection details.

In Admin console Navigate to **Settings -> Messaging**.

Settings > Messaging

Broker Configuration

- [Broker Settings](#)
- [Broker/Local Trigger Management](#)

JMS Configuration

- [JMS Settings](#)
- [JMS Trigger Management](#)
- [JNDI Settings](#)

Settings > Messaging > Broker Settings > Edit

- [Return to Broker Settings](#)

Broker Configuration

Configured	<input checked="" type="radio"/> Yes <input type="radio"/> No
Broker Host	<input type="text" value="localhost:8289"/>
Broker Name	<input type="text" value="Broker #1"/>
Client Group	<input type="text" value="IntegrationServer"/>
Client Prefix	<input type="text" value="J_jRQtEolDEurgAVIwwwADXaZQs_"/>
Share Client Prefix	<input type="radio"/> Yes <input checked="" type="radio"/> No

Client Authentication Settings

Client Authentication	<input type="text" value="None"/>
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Encryption Settings

Encryption	<input type="radio"/> Yes <input checked="" type="radio"/> No
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Packages

Simulate the following administrative actions on Integration server.

- Browse through management – **packages** and check the options for your Acme#<empid> package name.

Package List								
Package Name	Home	Reload	Enabled	Loaded	Archive	Safe Delete	Delete	
AJ247256			No	No				
AJ278897			No	No				
APPRProcessReq			 Yes	 Yes				
ASSOCIATE_INFORMATION			 Yes	 Yes				
AV288931			 Yes	 Yes				
Acme			 Yes	 Yes				