

REST API Services Deployment in WebSphere
Oracle FLEXCUBE Universal Banking
Release 14.0.0.0.0
[December] [2017]



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1. FLEXCUBE Universal Banking Solutions

This document describes step to install REST Services into WebSphere application server in full.

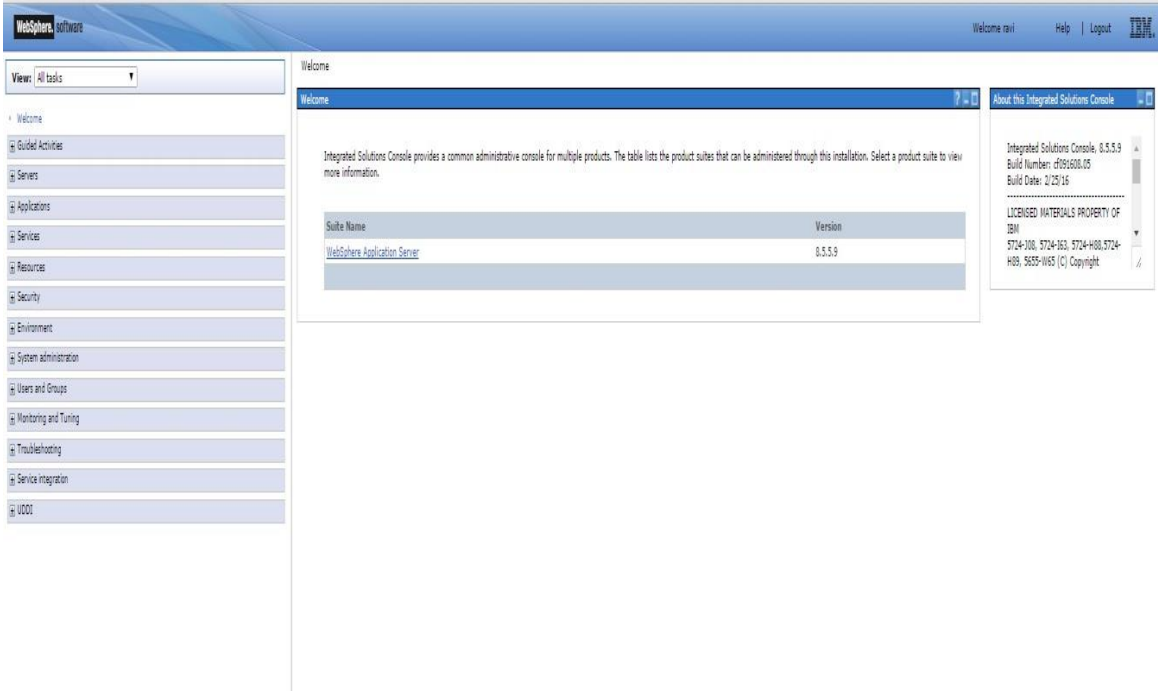
1.1 REST API Services Full Deployment

1. The following jars must be placed in the {WAS_Installed_Location}/IBM/WebSphere/AppServer/lib/ext folder of the server and restart.
 - a. **ojdbc6.jar**
 - b. **eclipselink.jar**
 - c. **jettison-1.3.7.jar**
2. Before deploying the EAR, please create an XA Datasource **jdbc/fcliteAPIDS** that will be referring to the API DB
3. Launch WebSphere console following screen will be displayed.

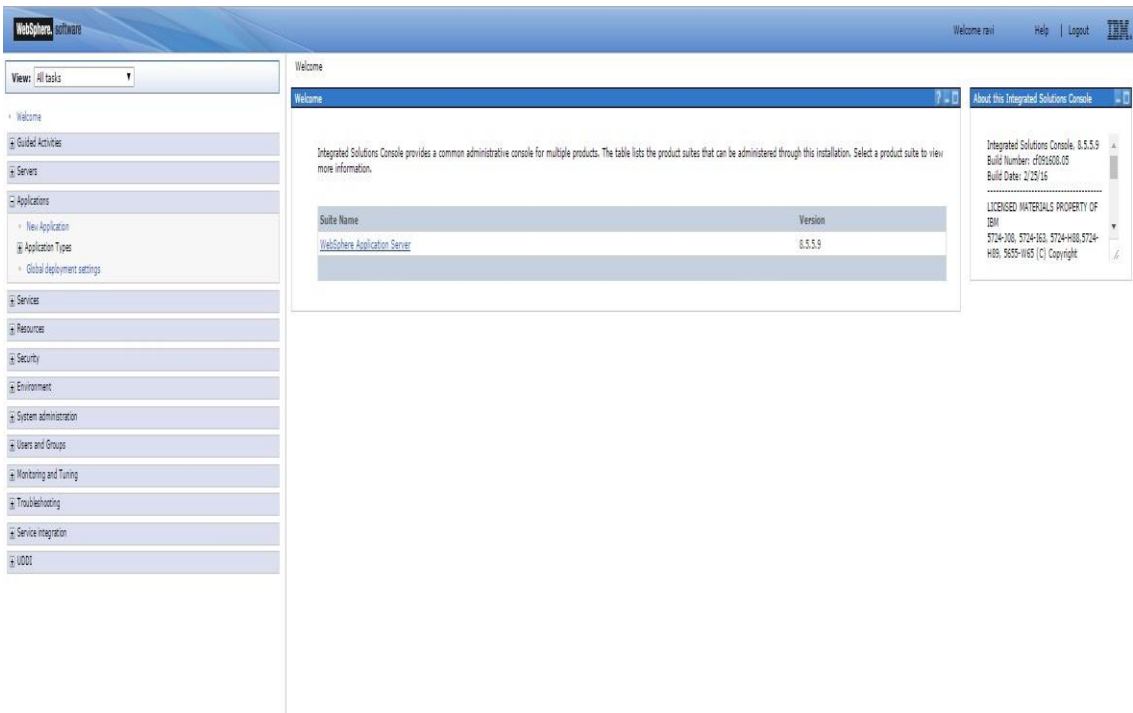


UserId: Enter user name

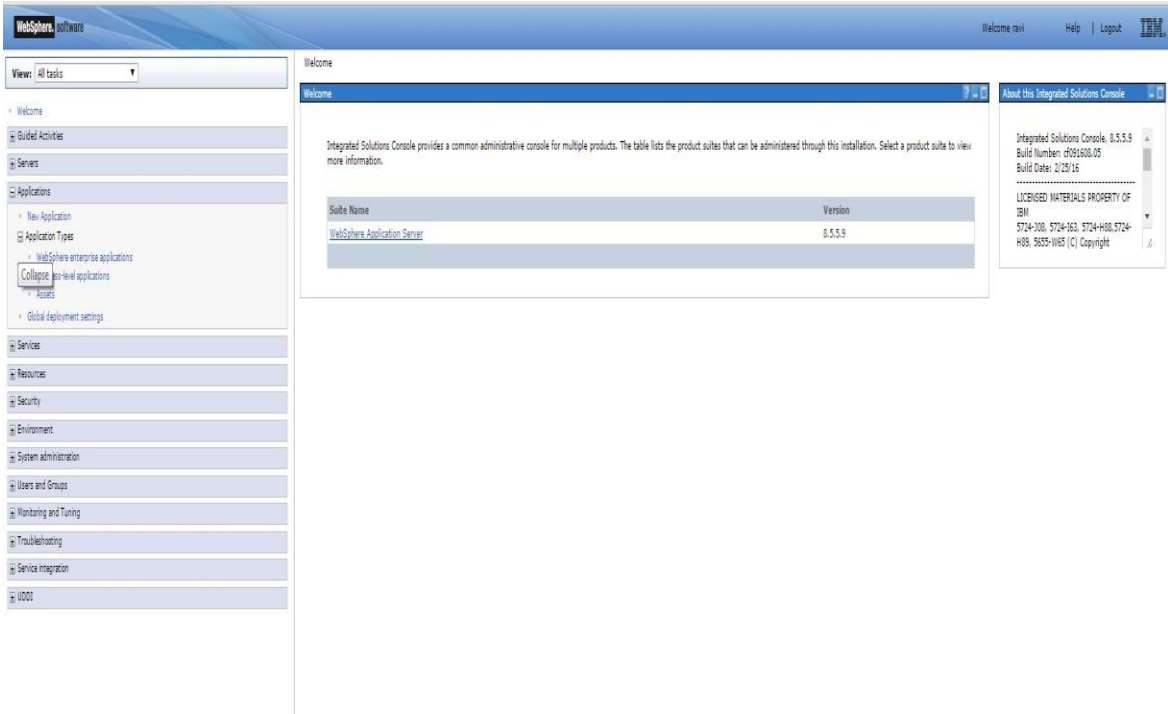
4. Click on 'Log in' and the following screen is displayed:



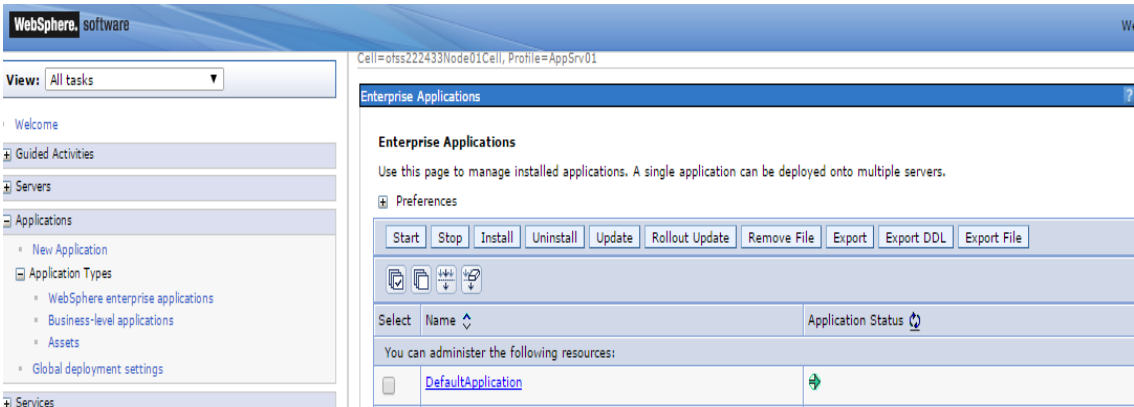
5. Expand Applications from the left panel and the following screen will be displayed.



6. Expand Application Types from the left panel and the following screen will be displayed.



7. Select WebSphere enterprise allocations and the following screen will be displayed.



8. Click on Install and the following screen will be displayed.

Enterprise Applications

Preparing for the application installation

Specify the EAR, WAR, JAR, or SAR module to upload and install.

Path to the new application

Local file system

Full path

Choose File FCLiteAPIEAR.ear

Remote file system

Full path

Browse...

Next Cancel

Choose File

Browse and select the EAR file.

9. Click Next and the following screen will be displayed.

Enterprise Applications

Preparing for the application installation

How do you want to install the application?

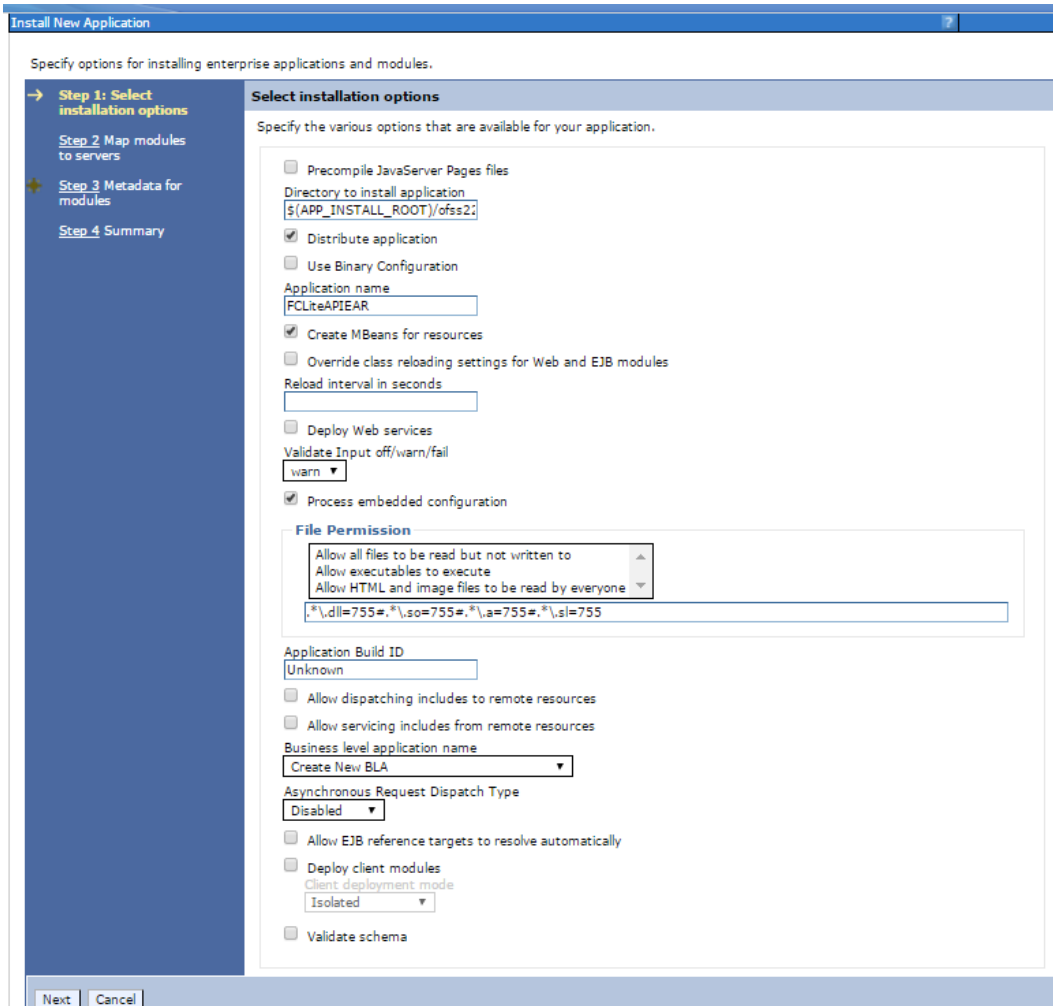
Fast Path - Prompt only when additional information is required.

Detailed - Show all installation options and parameters.

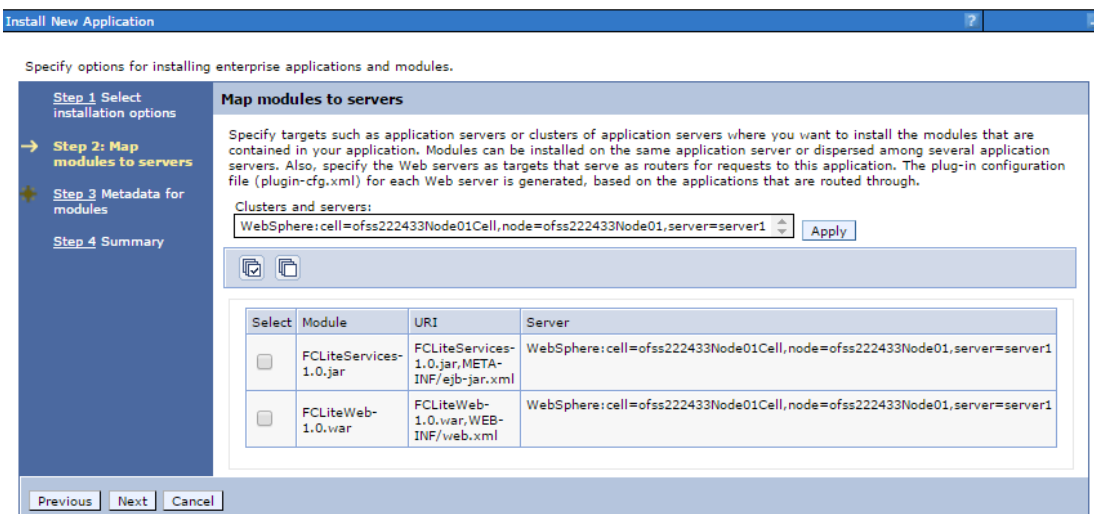
Choose to generate default bindings and mappings

Previous Next Cancel

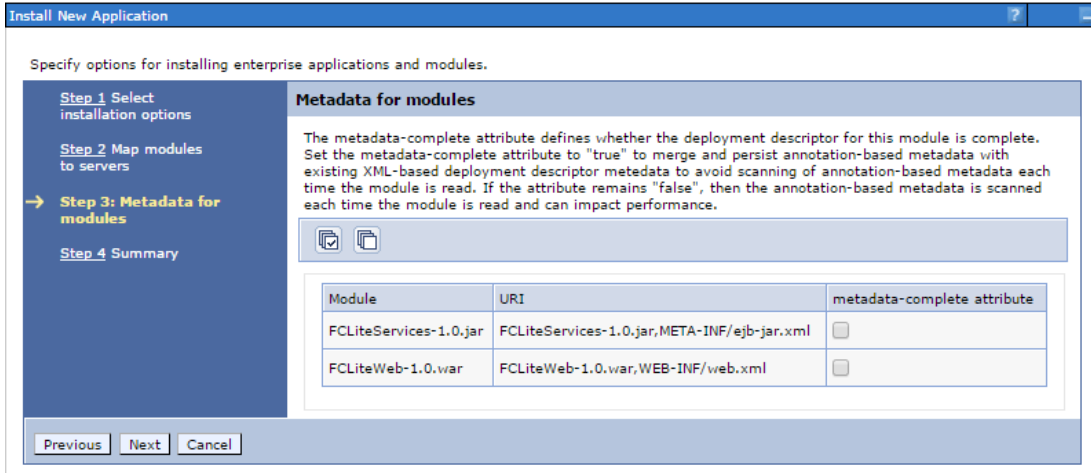
10. Click Next and the following screen will be displayed.



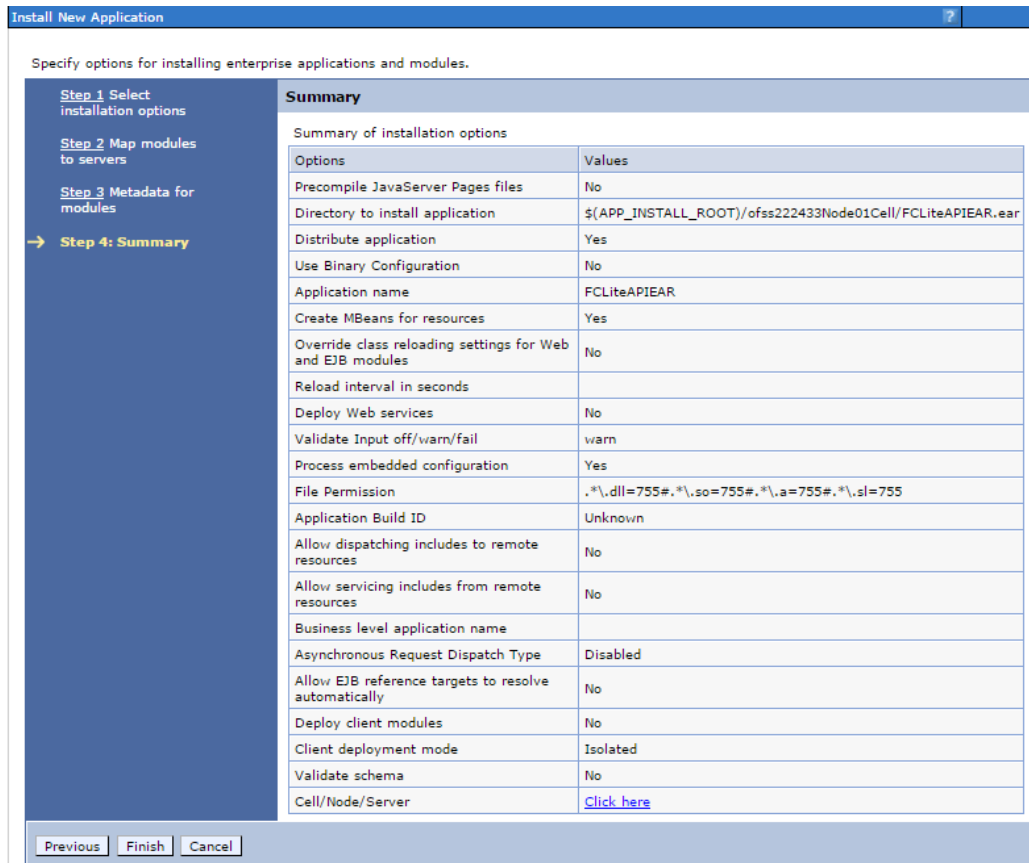
11. Click Next and the following screen will be displayed.



12. Click Next and the following screen will be displayed.



13. Click Next and the following screen will be displayed.



14. Click Finish and the following screen will be displayed and Save the EAR deployed.

If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.

Check the SystemOut.log on the deployment manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.

ADMA5016: Installation of FCLiteAPIEAR started.

ADMA5067: Resource validation for application FCLiteAPIEAR completed successfully.

ADMA5058: Application and module versions are validated with versions of deployment targets.

ADMA5005: The application FCLiteAPIEAR is configured in the WebSphere Application Server repository.

ADMA5005: The application FCLiteAPIEAR is configured in the WebSphere Application Server repository.

ADMA5081: The bootstrap address for client module is configured in the WebSphere Application Server repository.

ADMA5053: The library references for the installed optional package are created.

ADMA5005: The application FCLiteAPIEAR is configured in the WebSphere Application Server repository.

ADMA5001: The application binaries are saved in /scratch/programs/IBM/WebSphere/AppServer/profiles/AppSrv01/wstemp/D/workspace/cells/ofss222433Node01Cell/applications/FCLiteAPIEAR.ear/FCLiteAPIEAR.ear

ADMA5005: The application FCLiteAPIEAR is configured in the WebSphere Application Server repository.

SECJ0400: Successfully updated the application FCLiteAPIEAR with the appContextIDForSecurity information.

ADMA5005: The application FCLiteAPIEAR is configured in the WebSphere Application Server repository.

ADMA5005: The application FCLiteAPIEAR is configured in the WebSphere Application Server repository.

ADMA5113: Activation plan created successfully.

ADMA5011: The cleanup of the temp directory for application FCLiteAPIEAR is complete.

ADMA5013: Application FCLiteAPIEAR installed successfully.

Application FCLiteAPIEAR installed successfully.

To start the application, first save changes to the master configuration.

Changes have been made to your local configuration. You can:

- [Save](#) directly to the master configuration.
- [Review](#) changes before saving or discarding.

To work with installed applications, click the "Manage Applications" link.

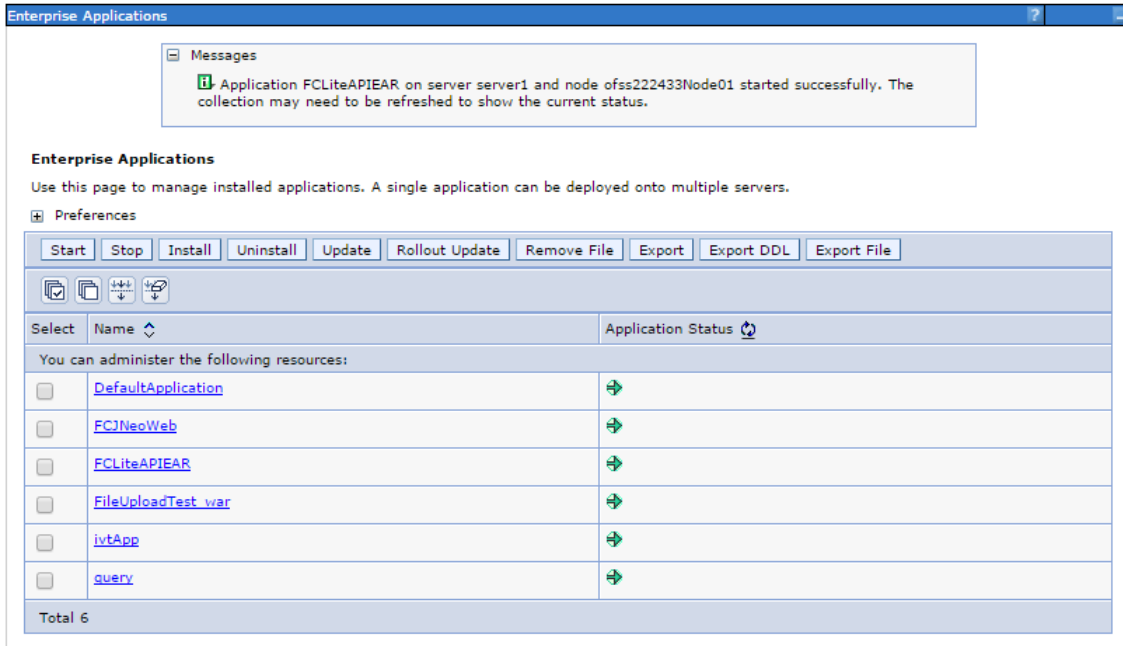
[Manage Applications](#)

15. Once the EAR is deployed click on WebSphere enterprise applications following screen will be displayed where the deployed EAR can be found in resources column.

Select	Name	Application Status
<input type="checkbox"/>	DefaultApplication	➔
<input type="checkbox"/>	FCJNeoWeb	➔
<input type="checkbox"/>	FCLiteAPIEAR	✘
<input type="checkbox"/>	FileUploadTest_war	➔
<input type="checkbox"/>	ivtApp	➔
<input type="checkbox"/>	query	➔

Total 6

16. Check the application/EAR and click on Start the following screen will be displayed and your application will be in running.



Note: Before deploying the EAR, please create an XA Datasource **jdbc/fcliteAPIDS** that will be referring to the API DB. More details of creating the data source can be found in the Resource Creation document.

1.2 Enabling logs for REST Application

1. Launch WebSphere console following screen will be displayed.



UserId: Enter user name

2. Click on 'Log in' and the following screen is displayed:

WebSphere software

Welcome ravi Help Logout

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
- Services
- Resources
- Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

Welcome

Integrated Solutions Console provides a common administrative console for multiple products. The table lists the product suites that can be administered through this installation. Select a product suite to view more information.

Suite Name	Version
WebSphere Application Server	8.5.5.9

About this Integrated Solutions Console

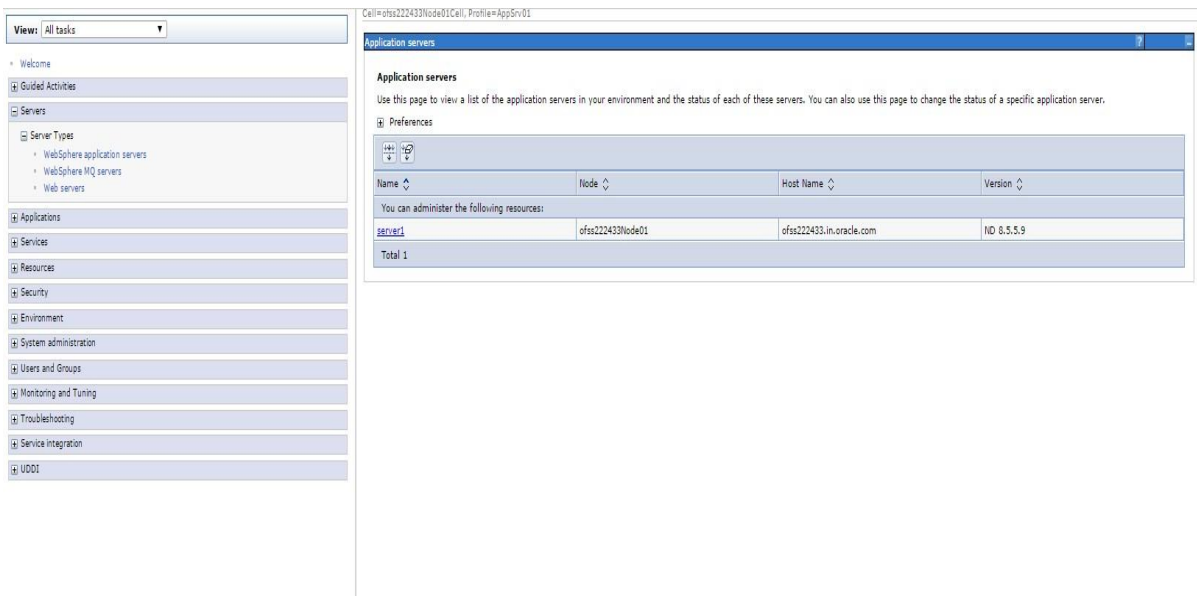
Integrated Solutions Console: 8.5.5.9
Build Number: c091600.05
Build Date: 2/25/16

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3. Expand 'Servers' from the left panel and the following screen is displayed:



- Expand 'Server Type' and Click WebSphere application servers and the following screen is displayed:



- Click server1 and the following screen is displayed:

General Properties

Name: server1

Node name: ofss222433Node01

Run in development mode

Parallel start

Start components as needed

Access to internal server classes: Allow

Server-specific Application Settings

ClassLoader policy: Multiple

Class loading mode: Classes loaded with parent class loader first

Apply OK Reset Cancel

Container Settings

- Session management
- SIP Container Settings
- Web Container Settings
- Portlet Container Settings
- EJB Container Settings
- Container Services
- Business Process Services

Applications

- Installed applications

Server messaging

- Messaging engines
- Messaging engine inbound transports
- WebSphere MQ link inbound transports
- SIB service

Server Infrastructure

- Java and Process Management
- Administration
- Java SDKs

Communications

- Ports
- Messaging
- Communications Enabled Applications (CEA)

Performance

- Performance Monitoring Infrastructure (PMI)
- Performance and Diagnostic Advisor Configuration

Security

- Security domain
- Default policy set bindings
- JAX-WS and JAX-RPC security runtime

Troubleshooting

- NGSA access and HTTP error logging
- Diagnostic trace service
- Logging and tracing
- Change log detail levels [Use this page to view and modify the properties for the diagnosti](#)

Additional Properties

- Class loader viewer service
- Endpoint listeners
- Debugging service
- Thread pools
- Reliable messaging state
- Web server plug-in properties

6. Click Diagnostic trace service and the following screen is displayed:

Application servers

Application servers > server1 > Diagnostic trace service

Use this page to view and modify the properties of the diagnostic trace service. Diagnostic trace provides detailed information about how the application server components run within this managed process. Changes on the Configuration panel apply when the server is restarted. Changes on the Runtime panel apply immediately.

Configuration Runtime

General Properties

Trace Output

None

Memory Buffer

Maximum Buffer Size: 8 thousand entries

File

Maximum File Size: 20 MB

Maximum Number of Historical Files: 5

File Name: \${SERVER_LOG_ROOT}trace.log

Trace Output Format: Basic (Compatible)

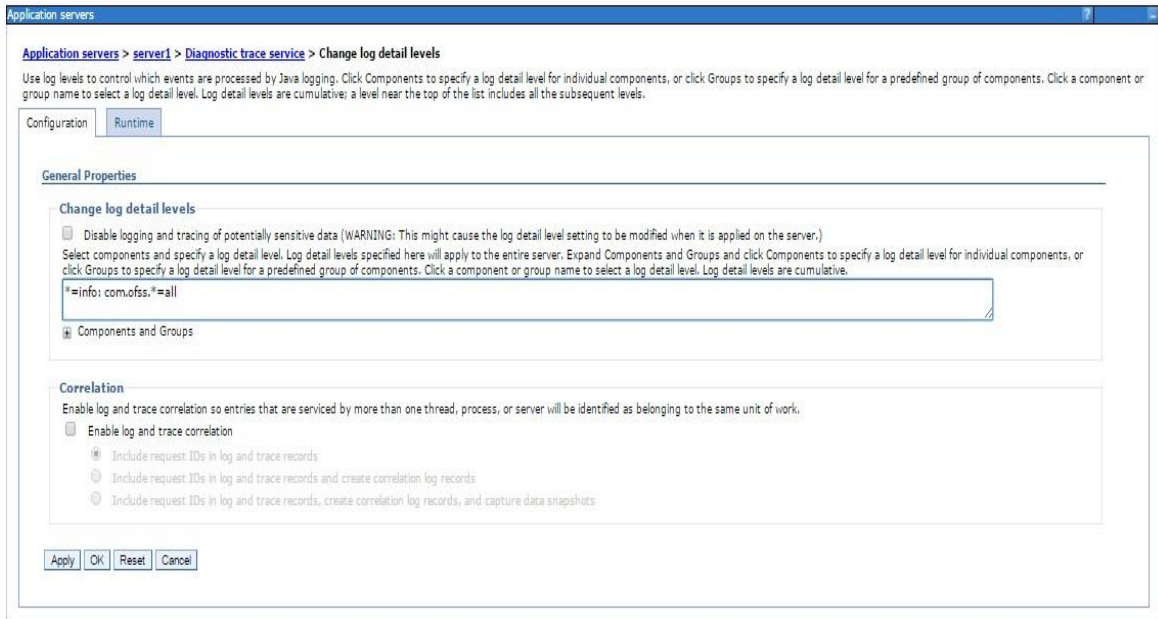
Apply OK Reset Cancel

Additional Properties

- Change log detail levels

Change log detail levels

7. Click Change log detail levels and the following screen is displayed:



Change log detail levels

Add the entry com.off.*=all to the existing entry (i.e., now it will be *=info: com.ofss.*=all)

8. Restart the server post the change
9. The logs will now be written into the log area that is specified in the configuration **Application servers > server1 > Diagnostic trace service**.



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