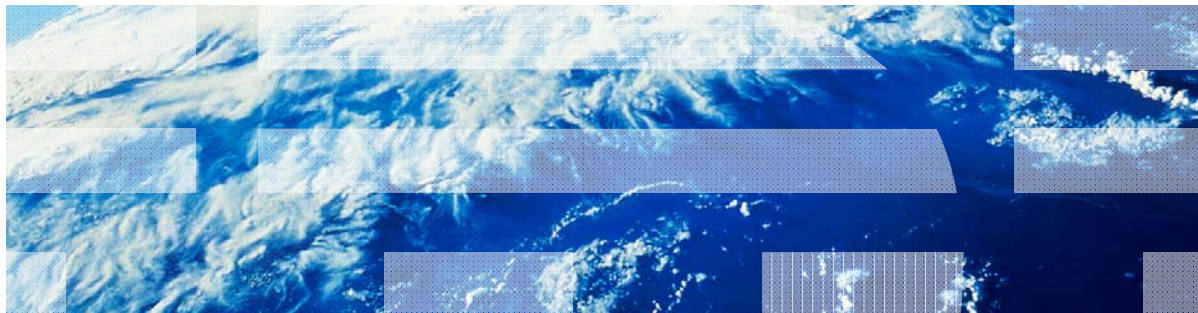


IBM Worklight V6.0.0 Getting Started

**Introducing Worklight Server and Application
Center on IBM PureApplication System**



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Agenda

- Introduction
- Installation of Worklight Pattern Type
- Installation of Worklight Database Workload Standards
- Create and deploy Worklight Virtual Application Pattern
- Work with PureApplication System in Worklight Studio
- Build and deploy by using Command Line Interface
- Deploy Application Center

Overview

- IBM® Worklight® provides the capability to deploy and manage Worklight Server and applications on IBM PureApplication™ System.
- This cloud solution eases the efforts for developers and administrators throughout the whole lifecycle of mobile applications.
- In this module, you learn the basic scenarios of using IBM Worklight on PureApplication System.
- In this module, you also learn how to deploy Application Center onto PureApplication System
 - For information about integrating Tivoli Directory Server, see module *Integrating Tivoli Directory Server on IBM PureApplication System* and the IBM Worklight Information Center.

Agenda

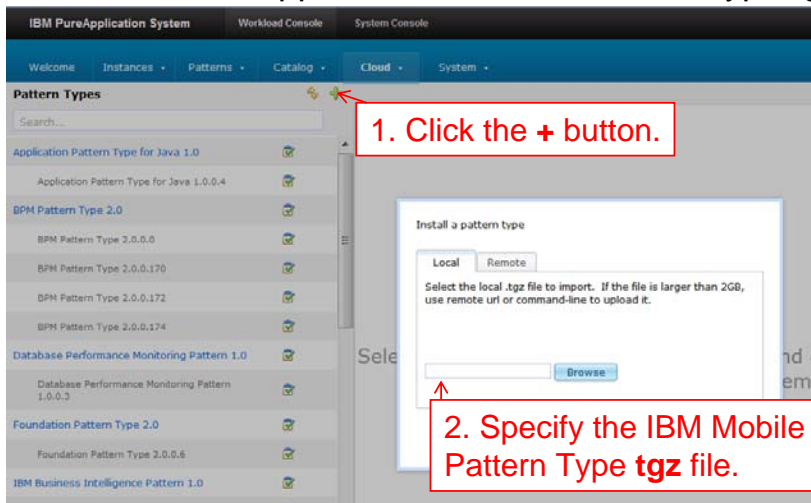
- Introduction
- Installation of Worklight Pattern Type
- Installation of Worklight Database Workload Standards
- Create and Manage Worklight Virtual Application Pattern
- Work with PureApplication System in Worklight Studio
- Build and deploy by using Command Line Interface
- Deploy Application Center

Prerequisites

- Before you start the installation, get the IBM Mobile Application Platform Pattern Type **tgz** file from the installation of IBM Worklight for IBM PureApplication System.

Upload the Pattern Type file

- Log in to PureApplication System, and ensure that your account has the right to upload a new pattern type.
- Go to **Workload Console > Cloud > Pattern Types**.
- Upload the IBM Mobile Application Platform Pattern Type **tgz** file.



Accept the license (1 of 2)

- After the upload process completes, go to the uploaded pattern type, and enable it.

2. View the license and accept it.

Pattern Types

Search...

IBM Messaging Extension for Web Application Pattern 2.0

IBM Messaging Extension for Web Application Pattern 2.0.0.1

IBM Mobile Application Platform Pattern Type 5.0

IBM Mobile Application Platform Pattern Type 5.0.6.0

IBM Transactional Pattern Type 5.0

IBM Transactional Pattern Type 5.0.6.0

IBM Mobile Application Platform Pattern Type

Description: IBM Mobile Application Platform Pattern Type

License Agreement: Not Accepted [[License...](#)]

Status: Not Accepted [[Enable All...](#)]

Required: Web Application Pattern Type (2.0.0.5 or above)

System Plug-ins: [Show me all plug-ins in this pattern type](#)

Dependency

1. Notice that the Pattern Type is not enabled after the Installation.

2. View the license and accept it.

Accept the license (2 of 2)



- Accept the license.





Installation complete

- After the installation completes, the pattern is enabled.

IBM Mobile Application Platform Pattern Type

Description:	IBM Mobile Application Platform Pattern Type
License Agreement:	 Accepted [View...]
Status:	 Unavailable [Enable...]
Required:	Web Application Pattern Type (2.0.0.5 or above)
System Plug-ins:	Show me all plug-ins in this pattern type

 **Dependency**

 This pattern type has one or more prerequisites that need to be enabled first. In order to ch pattern type(s) need to be enabled in sequence. Press "Enable All" to enable the pattern ty

4. The Pattern Type is accepted.

5. Enable it.

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- Introduction
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Prerequisites

- Before you start the installation, get the **WLRTDB.zip** file and the **WLRPTDB.zip** file from the installation of IBM Worklight for IBM PureApplication System.

Create Worklight database workload standards (1 of 2)

- Log in to PureApplication System, and ensure that your account has the right to create custom database workload standards.
- Go to **Workload Console > Catalog > Database Workload Standards**.
- You must create Worklight database workload standard for:
 - Worklight runtime database
 - Worklight reports database

Create Worklight database workload standards (2 of 2)

- Follow the steps indicated here to upload the **WLRTDB.zip** file.
- By using similar steps, upload the **WLRPTDB.zip** file for Worklight reports database.

IBM PureApplication System Workload Console System Console deploy25 | Help | Logout IBM

Welcome Instances Patterns Catalog

Database Workload Standards

Database pattern name

Database Workload Standards

Specify options for your customized database workload standard.

Name: W_RUNTIMEDB

Description:

Workload type: Departmental Transactional

Initial disk size (GB): 1

Storage multiplier (User data to physical disk ratio): 3

Upload file (.zip): WLRTDB.zip

Browse

Save Cancel

ns, or click

1. Click +.

2. Specify the name

3. Select Departmental Transactional.

4. Specify the WLRTDB.zip file.

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- Introduction
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Create Worklight Server

- Create a Virtual Application Pattern.
- Drag an Enterprise Application component.
- Upload the **Worklight.ear** file onto it.
 - You can generate this **EAR** file from Worklight Studio or by using the command line interface (CLI).

The screenshot displays the IBM PureApplication System - Virtual Application Builder interface. The left sidebar shows the 'Assets' panel with 'Application Components' expanded. A red arrow points to the 'Enterprise Application' component, which is labeled 'WebSphere Application Server'. A red box with the text '1. Drag a WebSphere Application Server Component.' is overlaid on this area. The main workspace shows a diagram of the 'Worklight Server' component. A red box with the text '2. Upload the EAR file that is built by Worklight Studio or CLI.' is overlaid on the diagram. The right sidebar shows the configuration for the 'Worklight Server' component, including fields for 'Name' (Worklight Server), 'EAR file' (artifacts/module_21_1), and various timeout settings.

IBM PureApplication System - Virtual Application Builder

Diagram | List View | Source

Save | Save As | Layout | Undo | Redo

Assets

Asset name

Application Components

- Additional archive file
- Enterprise Application
WebSphere Application Server
- Existing Web Service Provider Endpoint
- Policy set
- Web Application
WebSphere Application Server
- Database Components

2. Upload the **EAR** file that is built by Worklight Studio or CLI.

1. Drag a WebSphere Application Server Component.

Name: Worklight Server

EAR file: artifacts/module_21_1 [Edit] [Delete]

Total transaction lifetime timeout (seconds): 120

Async response timeout (seconds): 120

Client inactivity timeout (seconds): 60

Create Worklight database

- Drag a DB2® component and then apply a database workload standard for Worklight runtime database
 - Ensure that you select the database workload standard that you created in previous steps.

Assets

4asset name

Application Components

Database Components

Data Studio web console

Database DB2

Existing Database DB2

Existing Database Informix

Existing Database Oracle

Existing IMS Database

Messaging Components

OSGi Components

Transaction Processing Components

User Registry Components

Worklight Components

Add policy for application

Worklight Server Enterprise Application

Worklight Runtime DB Database

Database DB2

Name: Worklight Runtime DB

Database name: WLRTIME

Database description:

Purpose: Production

Source

Apply a database workload standard

Name	Description
<input type="radio"/> WL_REPORTSDB	
<input checked="" type="radio"/> WL_RUNTIMEADB	
<input type="radio"/> BPM_BPMDDB	Using for BPM v85 Patterns
<input type="radio"/> BPM_PDWDDB	Using for BPM v85 Patterns
<input type="radio"/> BPM_CMNDB	Using for BPM v85 Patterns

Configure database connection

- Link Worklight server and DB2.
- Specify the resource that is referenced as **jdbc/WorklightDS**.

IBM PureApplication System - Virtual Application Builder

Diagram | List View | Source | helloworld* | Pattern Type: IBM Mobile Application Platform Pattern Type 6.0

Save | Save As | Layout | Undo | Redo | Hints

Assets

Asset name

- Application Components
- Database Components
 - Data Studio web console
 - Database DB2
 - Existing Database DB2
 - Existing Database Informatica
 - Existing Database Oracle
 - Existing IMS Database
- Messaging Components
- OSGi Components
- Transaction Processing Components
- User Registry Components
- Worklight Components

4. Select jdbc/WorklightDS.

3. Create a link.

Enterprise Application → Database

Worklight Server → Worklight Runtime DB

JNDI Name of Data Source:

Resource References of Data Source:

helloworld.war#jdbc/WorklightDS

Select

Non-Transactional Data Source:

Connections:

Connection timeout:

180

Transaction Type for JDBC Provider:

Connection Pool data source

JDBC Driver:

Edit

Worklight Server

Enterprise Application

Worklight Runtime DB

Database

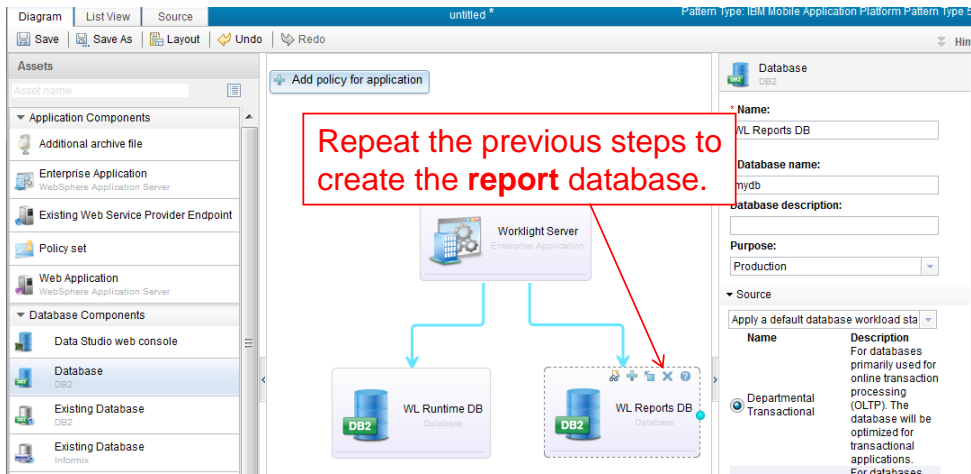
DB2

jdbc/WorklightDS in module helloworld.war

jdbc/WorklightReportsDS in module helloworld.war

Configure Report database

- Create and connect the report database by following the same steps as in the previous slide with the following changes:
 - Select the database workload standard for reports database.
 - Select the resource reference as **jdbc/WorklightReportsDS**.



Configure Worklight Server

- Finally, drag a Worklight Configuration component, link it to Worklight Server, and specify the security of the Worklight Console.

IBM PureApplication System - Virtual Application Builder

Diagram | List View | Source | untitled * | Pattern Type: IBM Mobile Application Platform Pattern Type

Save | Save As | Layout | Undo | Redo

Assets

Asset name

- Application Components
- Database Components
- Messaging Components
- OSGi Components
- Transaction Processing Components
- User Registry Components
- Worklight Components
 - Worklight Adapter
 - Worklight Application
 - Worklight Configuration
- Other Components

2. Create a link.

Worklight Configuration

Worklight Server

WL Reports DB

1. Drag a Configuration component.

3. Specify the login credentials.

Worklight Configuration

* Name:
Worklight Configuration

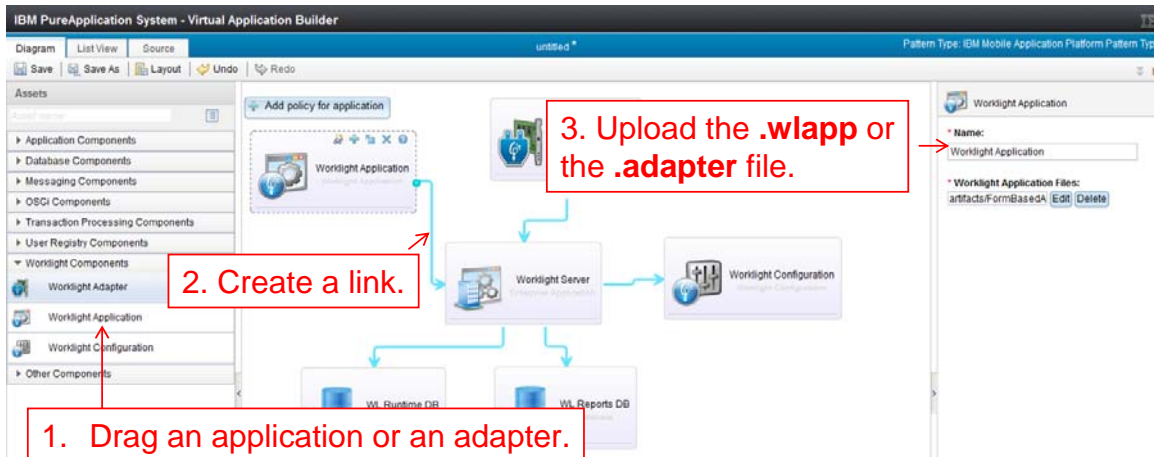
Worklight Console Protection: ☐

Worklight Console Username:
worklight

Worklight Console Password:
.....
.....

Create application and adapter

- Now you can create Worklight applications and adapters by dragging the corresponding components, and link them to Worklight Server.
 - For applications, upload the **.wlapp** file.
 - For adapters, upload the **.adapter** file.



Manage Worklight VAP instance (1 of 2)

- After you create an IBM Worklight VAP, you can deploy it like any other VAP.
- You can manage the running instances by going to **Workload Console > Instances**.
- Select **IBM Mobile Application Platform Pattern Type 5.0** to filter.
- Select your instance, and click **Manage**.

The screenshot shows the IBM PureApplication System Workload Console. The 'Instances' tab is active, displaying a list of Virtual Application (VAP) instances. The instance 'module_21_0_FormBasedAuthentication' is selected. A red arrow points to the 'Manage' button in the top right of the instance details panel. Another red arrow points to the selected instance in the list. A red box with the text '1. Select the instance.' is placed over the list, and another red box with the text '2. Click Manage.' is placed over the 'Manage' button.

Virtual Application Instances	module_21_0_FormBasedAuthentication
Name:	module_21_0_FormBasedAuthentication
Created by:	deploy25
Started on:	Feb 27, 2013 2:34:43 PM
Access granted to:	<input type="text" value="Add more..."/>
ID:	d-557f957b-f33c-4929-b7b0-9ec2ea4de970
Status:	Launching Step 4 of 4 80% (Preparing middleware)
Environment profile:	envprofile35
Priority:	High

Manage Worklight VAP instance (2 of 2)

- Click **Operations**, and select **Worklight**.
- On the right panel, you can do the following operations:
 - Install or update applications and adapters.
 - Set security protection of the Worklight Console.

Virtual Application Console

Maintenance mode ☐ deploy

Monitoring - Logging **Operations** Links Main Console

Operations

1. Click **Operations**.

2. Select **WORKLIGHT**.

3. Configure the login credentials.

4. Click **Submit** to save.

AGENT

MAINTENANCE

MONITORING

SSH

Worklight_Reports_DB-db2.DB2

DB2

Worklight_Runtime_DB-db2.DB2

DB2

Worklight_Server-was.ElbServicePlaceholder

ElbServicePlaceholder

Worklight_Server-was.WAS

WAS

Worklight_Server-was.WORKLIGHT

WORKLIGHT

Fundamental

Worklight Application/Adapter

Security

Worklight Security

Worklight Security Configuration

Worklight Console Protection: ☒

Worklight Console Username: worklight

Worklight Console Password: *****

Submit

Operation Execution Results

Name	Status	Created Time	Result	Value
No operation results				

Agenda

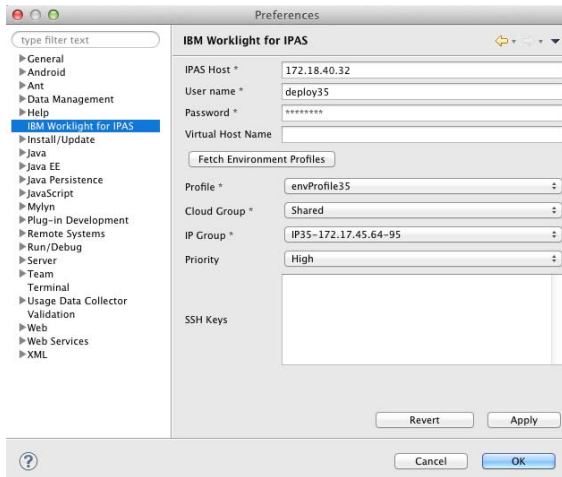
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Set up PureApplication System Preference in Worklight Studio

- The PureApplication System extension is integrated in Worklight Studio.
- Before using the PureApplication System capability, you must set up some preferences.
 - See next slide.

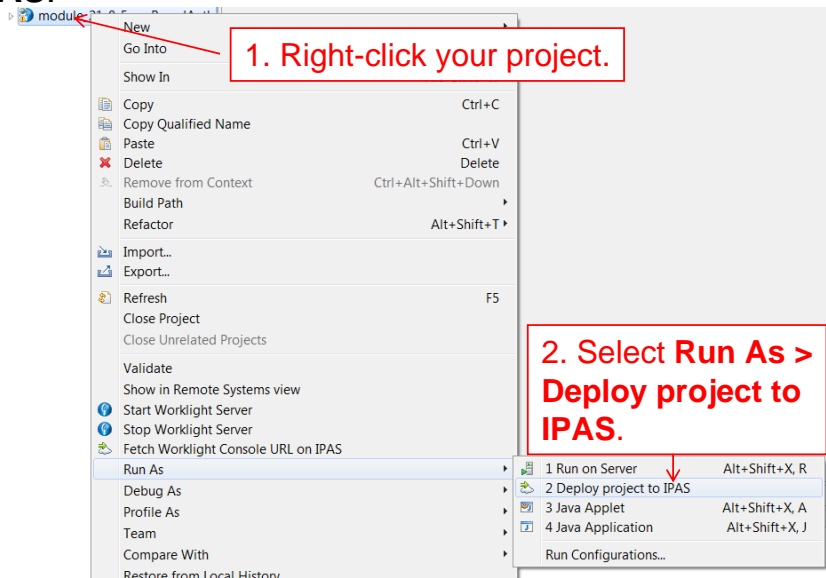
Specify the cloud environment

1. Open the **Preference** window of Eclipse.
2. Go to **IBM Worklight for IPAS**.
3. Enter the values of the following fields:
 - **IPAS Host**
 - **User name**
 - **Password**
4. Click **Fetch Environment Profiles**.
5. Select the target profile.
6. Click **Apply** to save the settings.



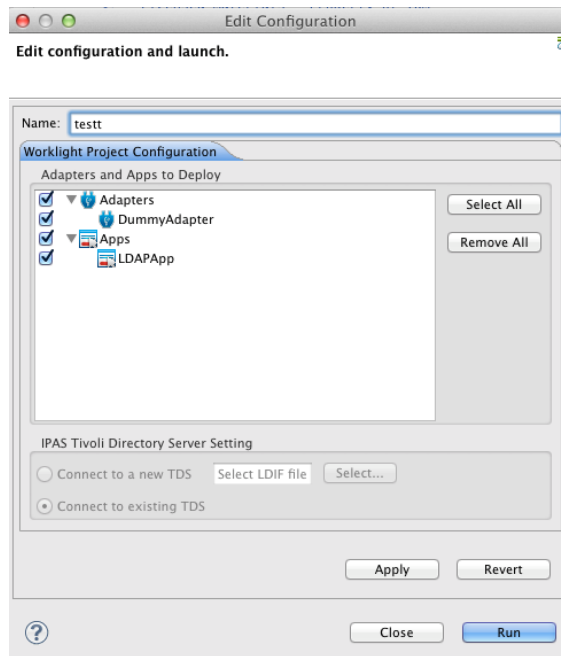
Deploy the Worklight project to PureApplication System

- To deploy your IBM Worklight project to PureApplication System, right-click the project, and then select **Run As > Deploy project to IPAS**.



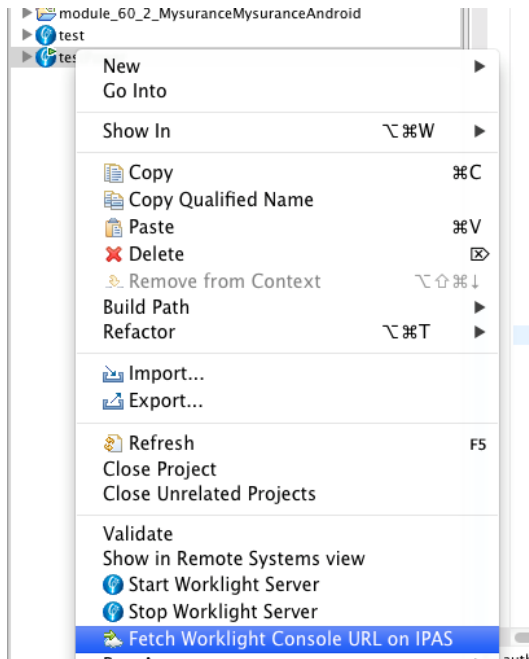
Select the assets to deploy

- In the **Edit Configuration** dialog, select the applications and adapters that you want to deploy.
- Check the status in the Worklight Console.
- A window opens when the deployment is complete.



Get the Worklight Console URL

- You can get the URL of the Worklight Console of the deployed project.
- Right-click your Worklight project, and select **Fetch Worklight Console URL on IPAS**.
- A window displays the URL.



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Prerequisites

- Get the Ant task JAR file from the installation of IBM Worklight for IBM PureApplication System.

Build VAP by Ant Script (1 of 3)

- Use the following Ant script as a template to build the VAP with Ant:

```
<taskdef resource="com/worklight/ant/defaults.properties"
  classpath="${taskdefClasspath}" />

<target

  name="buildIPAS_VAP"

  depends="buildAll" >

  <vap-builder

    worklightWar="${worklightWar}"

    destinationFolder="${wlProjectDestDir}"

    artifactsFolder="${artifactsFolder}"

    elbHost="${elbHost}" />

  </target>
```


Build VAP by ANT Script (2 of 3)

- Specify the following attributes:

Attributes	Description
<i>worklightWar</i>	Required. This file is the Worklight Console WAR file – make sure to include the full file path.
<i>destinationFolder</i>	Optional. The destination folder. Default value: <code>\${projectfolder}/bin</code>
<i>artifactsFolder</i>	Optional. This folder is where adapters and apps are stored by Worklight Studio or CLI.
<i>elbHost</i>	Optional. Host name for elastic load balancer.
<i>createVAPFlag</i>	Optional. If defined and set to true , the Virtual Application Pattern compressed file is generated. Default value: true
<i>isConnectNewTDS</i>	Optional. Use this attribute to define whether there is a need to connect a new Tivoli Directory Server.

- (continued on next slide)

Build VAP by ANT Script (3 of 3)

- Specify the following attributes
 - (continued from previous slide)

Attributes	Description
<i>ldifFile</i>	Optional. Set this attribute if isConnectNewTDS is true to define the LDIF file.
<i>ipasModel</i>	Optional. Possible values are the following ones: <ul style="list-style-type: none">• W1500: when PureApplication System runs on Intel• W1700: when PureApplication System runs on Power system. If not specified, the default value is W1500 .
<i>ipasHost</i>	Optional. The URL of PureApplication System – required if createVAPFlag is true .
<i>username</i>	Optional. The user name to access the PureApplication System console – required when createVAPFlag is true .
<i>password</i>	Optional. The password to access the PureApplication System console – required when createVAPFlag is true .

Deploy VAP by ANT Script (1 of 2)

- Use the following Ant script as a template to deploy the VAP with Ant:

```
<taskdef resource="com/worklight/ant/defaults.properties"
  classpath="${taskdefClasspath}"/>

<target name="deployVAP" depends="buildVap4IPAS">

  <ipas-deployer
    vapZipFile="${vapFile}"
    ipasHost="${ipasHost}"
    username="${username}"
    password="${password}"
    profileName="${profileName}"
    cloudGroupName="${cloudGroupName}"
    ipGroupName="${ipGroupName}"
    priority="${ipasPriority}" />

</target>
```

Deploy VAP by ANT Script (2 of 2)

- Specify the following attributes:

Attributes	Description
<i>vapZipFile</i>	Required. The path to the *.zip file that the vap-builder built
<i>ipasHost</i>	Required. The URL of PureApplication System
<i>username</i>	Required. The user name that is required to access the PureApplication System console
<i>password</i>	Required. The password that is required to access the PureApplication System console
<i>profileName</i>	Required. The profile name that is used to deploy VAP
<i>cloudGroupName</i>	Required. The cloud group name that is used to deploy VAP
<i>ipGroupName</i>	Required. The IP group name that is used to deploy VAP
<i>priority</i>	Required. The priority that is used to deploy VAP

Agenda

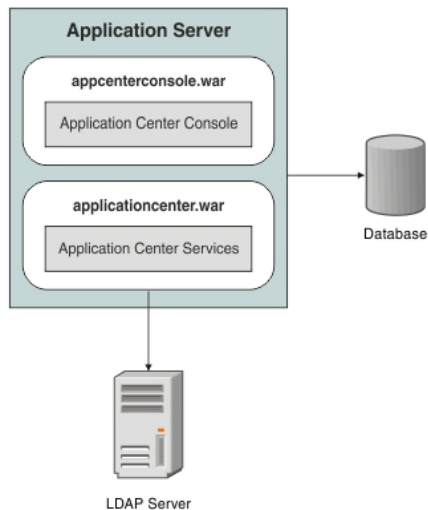
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Introduction to Application Center

- The Application Center is provided as an enterprise application store.
- It is similar to the Apple App Store or Google Play, except that it targets only private usage within a company.
- For more information, see the Application Center topic in the IBM Worklight Information Center.

Typical operation model

- Here is a typical operation model of Application Center:
 - The Application Server hosts the Application Center console and services.
 - The LDAP Server is responsible for authentication and user management.
 - The database is the repository for tracking information such as users, apps, or feedback.



Prerequisites

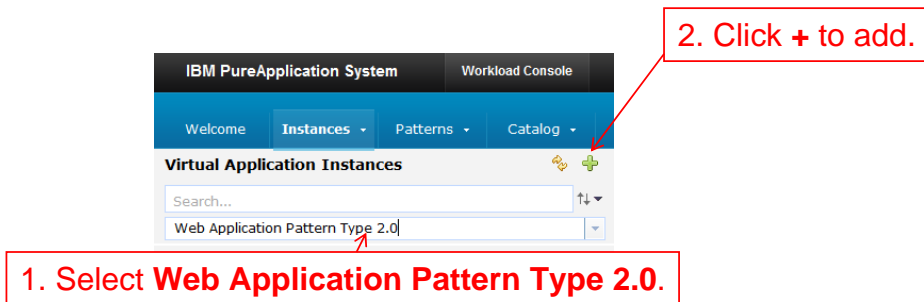
- Before you start to deploy Application Center to PureApplication System, ensure that it is installed.
- The Application Center is part of IBM Worklight Server. You can install it either through IBM Installation Manager or through manual installation. For more information, see the IBM Worklight Information Center.
 - Take note of the IBM Worklight installation folder **{worklight_install_folder}**.
 - When you install the Worklight Server with the Installation Manager, the Application Center artifacts are installed in the **{worklight_install_folder}/ApplicationCenter**.
- You must have an PureApplication System environment with privilege to create Virtual Application Pattern and run Virtual Application instances.

Get Application Center EAR file

- Since IBM Worklight V5.0.6, the App Center is divided into two WAR files: the Console and the Services.
- The pre-built EAR file is available in **{worklight_install_folder}/ApplicationCenter/console**.
- The paths of the WAR files in this EAR file are as follows:
 - Console: /applicationconsole
 - Services: /applicationcenter
- For information about how to build this EAR file yourself, see the IBM Worklight Information Center.

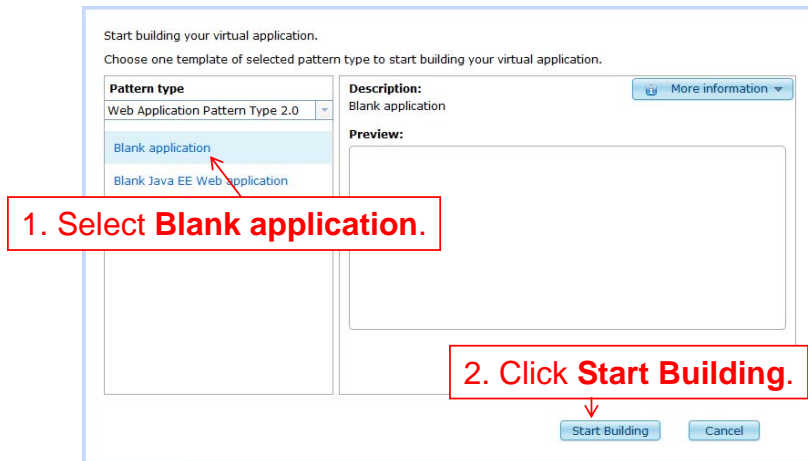
Create Virtual Application Pattern (1 of 2)

- Log in to PureApplication System
- Go to **Workload Console > Patterns > Virtual Applications**.
- In the list on the left, select **Web Application Pattern Type 2.0**, and then click **+**.



Create Virtual Application Pattern (2 of 2)

- In the dialog, select a template to start from, then click **Start Building**.
 - Select the template that is convenient for you.
 - You must create one web application component, one database component, and one user registry component.
 - For this module, select the **Blank Application** template.



Add an Enterprise Application Component

- On the Diagram pane on the left, expand **Application Components**.
- Drag an **Enterprise Application** component.
- On the property pane on the right, select the component, and specify the **EAR file** for the application center.

The screenshot displays the IBM PureApplication System - Virtual Application Builder interface. The top bar shows the title "IBM PureApplication System - Virtual Application Builder" and the IBM logo. Below the bar, there are tabs for "Diagram", "List View", and "Source", with "Diagram" selected. The main workspace is titled "untitled *". On the left, the "Assets" pane shows a tree structure with "Application Components" expanded, listing "Additional archive file", "Enterprise Application", "Existing Web Service Provider Endpoint", "Policy set", "Web Application", and "Database Components". A red arrow points from the "Enterprise Application" component in the Assets pane to the main workspace. In the center of the workspace, a dashed box contains a diagram of an "Enterprise Application" component. A red box with the text "2. Specify the EAR file." is overlaid on the workspace. On the right, the "Hints" pane shows the properties of the selected "Enterprise Application" component. It includes fields for "Name" (Enterprise Application), "EAR file" (artifacts/appcenter.ear), "Total transaction lifetime timeout (seconds)" (120), "Async response timeout (seconds)" (120), and "Client inactivity timeout (seconds)" (60). A red arrow points from the "EAR file" field to the "artifacts/appcenter.ear" text.

IBM PureApplication System - Virtual Application Builder

Diagram | List View | Source | untitled * | Pattern Type: Web Application Pattern Type 2.0

Save | Save As | Layout | Undo | Redo

Assets

Asset name

Application Components

Additional archive file

Enterprise Application
WebSphere Application Server

Existing Web Service Provider Endpoint

Policy set

Web Application
WebSphere Application Server

Database Components

Add policy for application

2. Specify the EAR file.

Enterprise Application
Enterprise Application

Enterprise Application
WebSphere Application Server

Name:
Enterprise Application

EAR file:
artifacts/appcenter.ear | Edit | Delete

Total transaction lifetime timeout (seconds):
120

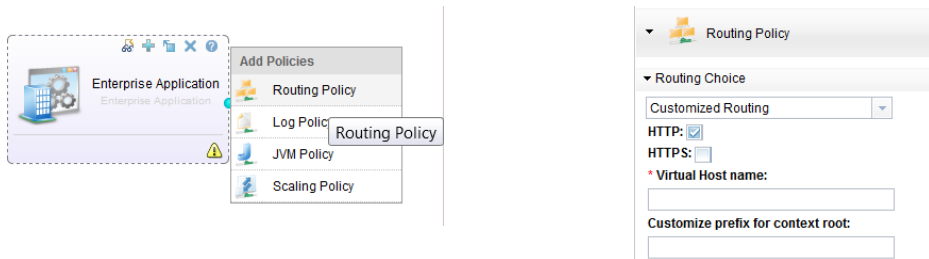
Async response timeout (seconds):
120

Client inactivity timeout (seconds):
60

1. Drag and Drop a WAS Component.

Add a Routing Policy

- From the menu of the Enterprise Application component, click the **+** (add) icon, and then select **Routing Policy**.
- In the property pane of the Routing Policy component, specify the **Virtual Host name**.



Add a database component

- On the left pane, expand **Database Components**.
- Drag a database (for this module, select **Database DB2**).
- Click the database and, on the property panel, specify the **Schema file**.
 - You can get the **create-appcenter-{db}.sql** in the **{worklight_install_folder}/ApplicationCenter/database** folder.

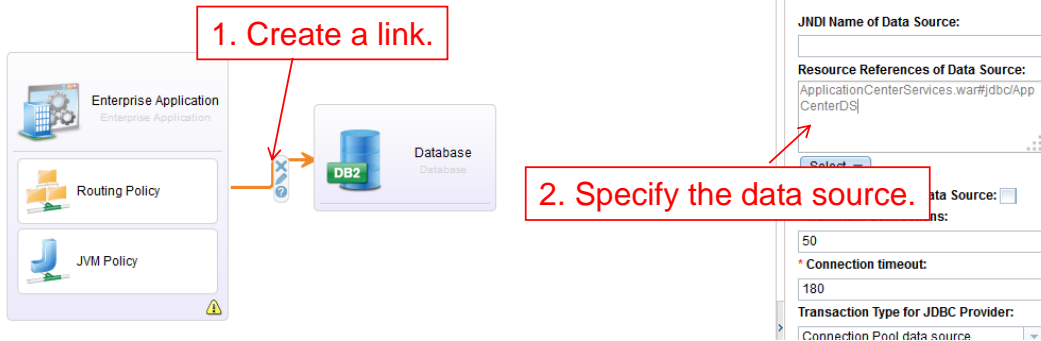
The screenshot displays the IBM Worklight console interface. On the left, the 'Assets' pane shows a tree view with 'Database Components' expanded, listing 'Data Studio web console', 'Database DB2', 'Existing Database DB2', 'Existing Database Informatica', 'Existing Database Oracle', and 'Existing IMS Database'. A red arrow points from the 'Database DB2' item to the main workspace. The main workspace shows a diagram with an 'Enterprise Application' component connected to a 'Database' component (labeled 'DB2'). A red box with the text '1. Drag a DB2 component.' points to the 'Database DB2' item in the left pane. On the right, the 'Properties' pane for the 'Database' component is shown. It includes a table with 'Name' and 'Description' for 'Departmental Transactional' and 'Data Mart'. Below this, the 'Database version:' is set to '10.5', 'Database size (GB):' is '30', and 'Database compatibility mode:' is 'DB2 (default)'. A red box with the text '2. Specify the Schema file.' points to the 'Schema file:' field, which contains the path 'artifacts/create-appce' and has 'Edit' and 'Delete' buttons next to it.

1. Drag a DB2 component.

2. Specify the Schema file.

Connect the application and the database

- From the Enterprise Application component, click and hold the solid circle on the right edge, move the mouse to the database component, and then release.
 - You created a connection (link) between the web application and the database.
- Click the connection line, and specify the data source as **jdbc/AppCenterDS**.



Add a user registry component

- On the left pane, expand **User Registry Components**.
- Drag a User Registry component.
- Select the User Registry component, and, on the property pane, specify the values of the **Base DN** and **LDIF file** fields.

Assets

Asset name

- Application Components
- Database Components
- Messaging Components
- OSGi Components
- Transaction Processing Components
- User Registry Components
 - Existing User Registry
 - IBM Tivoli Directory Server
 - Existing User Registry
 - Microsoft Active Directory
 - User Registry

 - Tivoli Directory Server**
- Other Components

Add policy for application

Enterprise Application

Routing Policy

JVM Policy

Database

User Registry

2. Specify the values of the **Base DN** and **LDIF file** fields.

Base DN:
o=acme.cus

LDIF file:
artifacts/ldap-counter Edit Delete

Custom schema file:
Edit

Admin DN password:
New password
Verify password

Instance password:
New password
Verify password

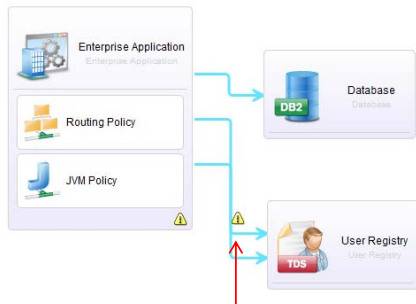
User filter:
(objectclass=Person)

Group filter:
/!(objectclass=group)cn=Names,unhiarta

1. Drag a User Registry component.

Connect the application and the user registry

- Create two links between the Enterprise Application and the User Registry component.
- Configure the user role mapping for these links:
 - For the first link, set the **Role name** to **appcenteradmin**, and set **Mapping special subjects** to **All AuthenticatedUsers**.
 - For the second link, set the **Role name** to **appcenteruser**, and set **Mapping special subjects** to **All AuthenticatedUsers**.



1. Create 2 links.

This screenshot shows the configuration page for the first link between the Enterprise Application and the User Registry. The page title is "Enterprise Application -> User Registry". The "Role name" is set to "appcenteruser". The "User role mapping" and "Group role mapping" fields are empty. The "Mapping special subjects" section has three radio buttons: "None" (selected), "AllAuthenticatedUsers", and "Everyone".

2. Specify the **Role name**.

This screenshot shows the configuration page for the second link between the Enterprise Application and the User Registry. The page title is "Enterprise Application -> User Registry". The "Role name" is set to "appcenteradmin". The "User role mapping" and "Group role mapping" fields are empty. The "Mapping special subjects" section has three radio buttons: "None" (selected), "AllAuthenticatedUsers", and "Everyone".

Save and deploy

- Save the virtual application. You can give it a name.
- Back to the **Virtual Application Patterns** page, you now see the pattern that you created.
- Click **Deploy**.

☐ Virtual Application

* Name:

Description:

Virtual Application Patterns

Search...

Web Application Pattern Type 2.0

Sample Java EE Web application

Sample Secured Java EE Web application

Sample WAR EAR Web Services

Sample Web application only

untitled

Worklight App Center

Worklight Application Center

Worklight Application Center

Deploy

Open

Export

Delete

Clone

Application ID: a-577d7e1c-c71f-4d72-9aa6-df0057bdef05

Description: Blank application

Created by: deploy35

Updated by: deploy35

Created on: Feb 28, 2013 6:22:04 PM

Updated on: Feb 28, 2013 6:31:16 PM

Preview: Fetching the thumbnail, please wait ...

Access granted to: admin [all] [remove]

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