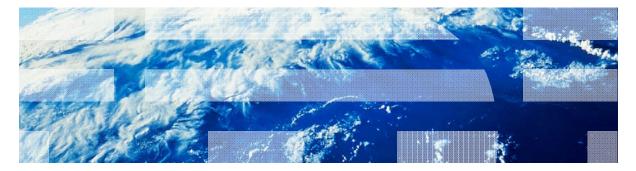


IBM Worklight V6.0.0 Getting Started

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 user documentation.



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- Introduction
- Installation of Worklight Pattern Type
- Installation of Worklight Database Workload Standards
- Create and Manage Worklight Virtual Application Pattern
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- Deploy Application Center



Prerequisites

 Before you start the installation, get the IBM Mobile Application Platform Pattern Type tgz file from the installation of IBM Mobile Application Platform Pattern.



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.

IBM PureApplication System Wor	kload Console	System Co	sole
		- Cloud -	System •
Pattern Types	8	*	
Search		1	Click the + button.
Application Pattern Type for Java 1.0	G	-	ener the Foutern.
Application Pattern Type for Java 1.0.0.4	G		
BPM Pattern Type 2.0	ਕ	1	Instali a pattern type
BPM Pattern Type 3.0.0.0	œ		Install a pattern type
BPM Pattern Type 2.0.0.170	3		Local Remote
BPN Pattern Type 2.0.0.172	8		Select the local .tgz file to import. If the file is larger than 2GB, use remote url or command-line to upload it.
BPM Pattern Type 2.0.0,174	3		Contraction and an and the following statistics of the
Database Performance Monitoring Pattern 1.0	8	Sele	nd c
Database Performance Monitoring Pattern 1.0.0.3			em.
Foundation Pattern Type 2.0	8		2. Specify the IBM Mobile Applicatior
Foundation Pattern Type 2.0.0.6	œ		Pattern Type tgz file.
IBM Business Intelligence Pattern 1.0	a		



Accept the license (1 of 2)

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

Pattern Types	🍫 🕂	IBM Mobile Application Platfo	orm Pattern Type
Search		Description:	IBM Mobile Application Platform Pattern Type
BM Messaging Extension for Web Application Pattern 2.0	*	License Agreement:	Re Not Accepted [License]
IBM Messaging Extension for Web Application	Ì	Status:	🖁 Not Accepted [Enable All]
Pattern 2.0.0.1	_	Required:	Web Application Pattern Type (2.0.0.5 or above)
BM Mobile Application Platform Pattern Type 5.0	2	System Plug-ins:	Show me all plug-ins in this pattern type
IBM Mobile Application Platform Pattern Type 5.0.6.0		Dependency	
IBM Transact IBM Tran I Notice that the after the Installat		n Type is not en	abled rerequisites that need to be enabled first. In ord in sequence. Press "Enable All" to enable the pai

2. View the license and accept it.



Accept the license (2 of 2)

Accept the license.

License This is the license agreement for IBM Mobile Application Platform Pattern Type 5.0.						
International Program License Agreement						
Part 1 - General Terms						
BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTION, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,						
* DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND						
* PROMPTLY RETURN THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE AMOUNT PAID. IF THE PROGRAM WAS DOWNLOADED, DESTROY ALL						
3. Click Accept to Accept Cancel						



Installation complete

• After the installation completes, the pattern is enabled.

IBM Mobile Application Platform Pa	ttern Type
Description:	IBM Mobile Application Platform Pattern Type
License Agreement:	
Status:	Unavailable [Enable:] 5. Enable it.
Required:	Web Application Pattern Type (2.0.0.3 or above)
System Plug-ins:	Show me all plug-ins in this pattern type
Dependency	
	more prerequisites that need to be enabled first. In order to ch nabled in sequence. Press "Enable All" to enable the pattern ty;



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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 Mobile Application Platform Pattern.



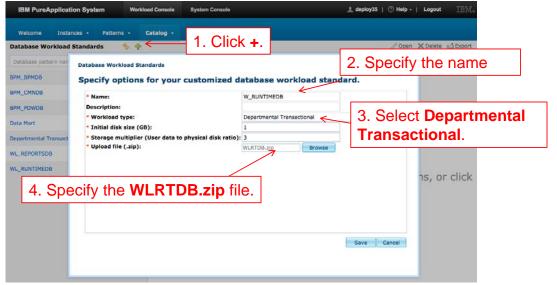
Create Worklight database workload standards (1 of 2)

- 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.





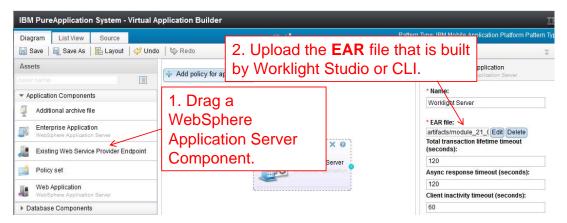
Agenda

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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).





Create Worklight database

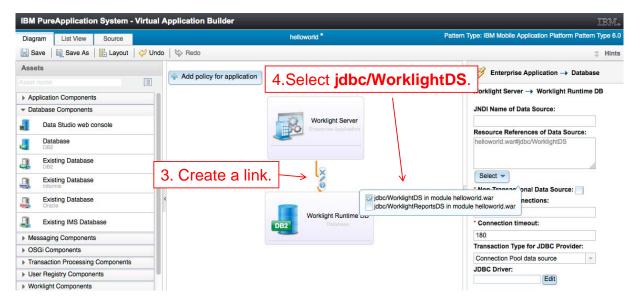
- Drag a DB2® component and then apply a database workload standard for Worklight runtime database
 - Ensure that you select the database workload standard that you created in previous steps.

Ass	ts	Add policy for application	Database		
► Ap	plication Components	10	* Name:		
▼ Da	tabase Components		Worklight Runtime D	В	
	Data Studio web console	Worklight Server	* Database name:		
	Database		WLRTIME		
-	DB2		Database descriptio	n:	
4	Existing Database		Dimension		1
	Existing Database	1. Drag a	Purpose: Production		-
	Existing Database	DB2 component.	> - Source		
and a second	Oracle	Worklight Runtime DB	Apply a database wo	rkload standard	-
1	Existing IMS Database		Name	Descriptio	n
► Me	ssaging Components		WL_REPORTSDE		
► OS	Gi Components				
	nsaction Processing Compo		BPM_BPMDB	Using for B Patterns	PM v85
1. 647	er Registry Components	2. Apply a database workload standard.	OBPM_PDWDB	Using for B Patterns	PM v85
	~	2	BPM_CMNDB	Using for B	PM v85



Configure database connection

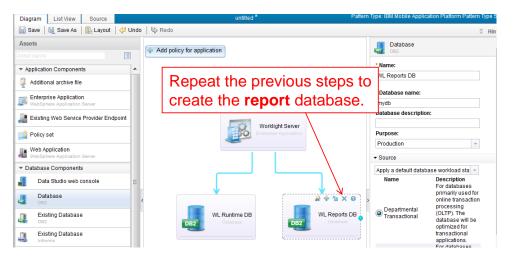
- Link Worklight server and DB2.
- Specify the resource that is referenced as jdbc/WorklightDS.





Configure Report database

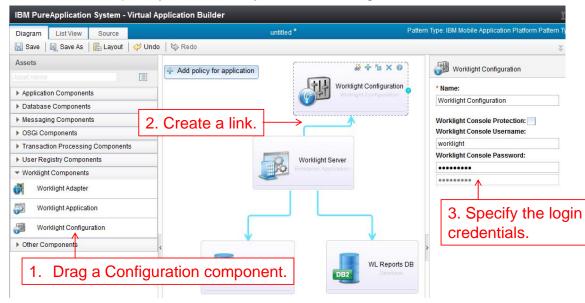
- Create and connect the report database by following the same steps as in the previous slide with the following changes:
 - Select the database workload standard for reports database.
 - Select the resource reference as jdbc/WorklightReportsDS.





Configure Worklight Server

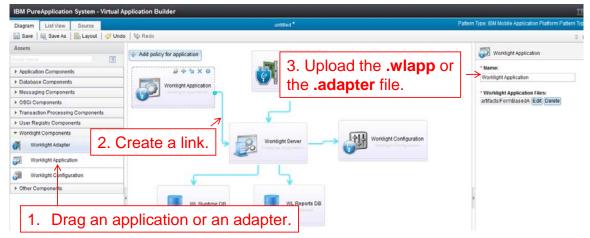
 Finally, drag a Worklight Configuration component, link it to Worklight Server, and specify the security of the Worklight Console.





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.

IBM PureApplication System Workto	ad Console	System Console		± deploy35 ⑦ Help - Logout IIB洲,
Welcome Instances - Patterns -	Catalog -	Cloud - System -		
Virtual Application Instances	* *	module_21_0_FormBasedAutho	entication 🧶 Stop	🖟 Start 🚺 Manage 🔄 Upgrade 🔢 Maintain 🔛 Resume 🗙 Delete
Search	14 -	Name:	module_21_0_FormBasedAuthentication	1
IBM Mobile Application Platform Pattern Type 5.0		Created by:	deploy35	
module_03_0_HelloWorklightProject	0	Started on:	Feb 27, 2013 2:34:43 PM	2. Click Manage.
module_21_0_FormBasedAuthentication	0	Access granted to:		2. Click Manage.
•		Access granted to.	Add more	
		ID:	d-557f957b-f33c-4929-b7b0-9ec2ea4de970	
1. Select the in	etanc	tus:	Launching 😝 Step 4 of 4	80% (Preparing middleware)
1. Select the li	Istanc	g 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 🔵 O	1 deploy3
	Monitoring - Logging Op	verations Links Ma	in Console		
	Operations	7 \$			
	Onerstiens	AGENT	✓ Fundamental		
T. CIICK	Operations.	MAINTENANCE	Worklight Application/Adapter	3. Configu	ire the
	MONITORING			-	
	SSH	SSH	▼ Security	login cred	entials
	Worklight_Reports_DB-db2.DB2	DB2	- Worklight Security		
	Worklight_Runtime_DB-db2.DB2	D82	Worklight Security Configuration		
	Worklight_Server- was.ElbServicePlaceholder	ElbServicePlacehold	ServicePlaceholde Worklight Console Protection: Verklight Console Username:		
	Worklight_Server-was.WAS	WAS	Worklight Console Password:		
	Worklight_Server-was.WORKLIGHT	WORKLIGHT	•		
2. Select	WORKLIGHT.		<u>c.dum∂</u> ← 4.	Click Subm	nit 🔄
	Operation Execution Results			save.	
	Name S	Status Created Time	 Result 		Valu



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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 PureApplication System.
- 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.

type filter text	IBM Worklight for PureApplicat	ion System	
type more tool Perroral Part Part	IBN Workspin for Pareppinat IBN Parekopication System Host * User name * Password * Virtual Host Name Fette kovicement Profiles Profile * Cloud Group * Profile * SSH Keys	In System I72.16.32.32 deploy35 ******* envProfile35 Shared IP35-172.17.36.60-89 (1gh.	
		Revert	Apply



Deploy the Worklight project to PureApplication System

1

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

New Go Into	•		
Show In	C₩W ►	1. Right-click your projec	t.
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Paste	жv		
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Build Path	Þ		
Refactor	сжт ►		
🚵 Import			
🛃 Export			
8 Refresh	F5		
Close Project		2. Select Run As >	
Close Unrelated Projects		2. Select Run AS >	
Validate		Deploy project to	
Show in Remote Systems view	/	Depidy project to	
Open Worklight Console		roperties # S PureApplication Sy	cton
() Change Worklight Target S	erver	ruie Application Sy	SIGI
Run As		📙 1 Run on Server 企業R	
Debug As	•	💫 2 Deploy project to PureApplication System	
Profile As		📨 3 Java Applet て第X A	
Team	•	丁 4 Java Application て第X J	
Compare With	•		
Restore from Local History		Run Configurations	



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.

$\Theta \cap \Theta$	Edit Configu	ration	
Edit configuration	and launch.		
Name: testt			
Worklight Project Co			
Adapters and Ap			
✓ ▼ ∰ Adapte ✓ ∰ Dur ✓ ♥ ✓ ♥ ✓ ♥ ✓ ♥ ↓ ↓ ✓ ♥ ↓ ↓	ımyAdapter		Select All
IPAS Tivoli Direct	ory Server Setting		
O Connect to a r	ew TDS Select LDIF file	Select	
• Connect to exi	sting TDS		
		Apply	Revert
?		Close	Run



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 IBM PureApplication System > Display Worklight Console URL.
- A window displays the URL.

New		•	
Go Into			
Show In	W#J	•	
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Copy Qualified Name			
Paste		۴V	
💢 Delete			
Remove from Context	公子	£↓	
Build Path		•	
Refactor	THT	►	
🔤 Import			
A Export			
			-
Refresh		F5	
Close Project			
Close Unrelated Projects			-
Validate			
Show in Remote Systems v			
Open Worklight Console			Properties 👭 Servers 🛗 Data Source Ex
Ochange Worklight Targe	et Server		sole
Run As		•	Sole
Debug As		•	
Profile As		•	
Team		•	
Compare With		•	
Restore from Local History			
IBM PureApplication System	item	Þ	Build Worklight EAR file
IBM Application Center		1	🗞 Display Worklight Console URL
Configure Source		-	
Source			
Properties		¥I	



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Prerequisites

 Get the Ant task JAR file from the installation of IBM Mobile Application Platform Pattern .



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
worklightWar	Required. This file is the Worklight Console WAR file – make sure to include the full file path.
destinationFolder	Optional. The destination folder. Default value: \${projectfolder}/bin
artifactsFolder	Optional. This folder is where adapters and apps are stored by Worklight Studio or CLI.
elbHost	Optional. Host name for elastic load balancer.
createVAPFlag	Optional. If defined and set to true , the Virtual Application Pattern compressed file is generated. Default value: true
isConnectNewTDS	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
ldifFile	Optional. Set this attribute if <i>isConnectNewTDS</i> is true to define the LDIF file.
ipasModel	Optional. Possible values are the following ones: •W1500: when PureApplication System runs on Intel •W1700: when PureApplication System runs on Power system. If not specified, the default value is W1500.
ipasHost	Optional. The URL of PureApplication System – required if <i>createVAPFlag</i> is true .
username	Optional. The user name to access the PureApplication System console – required when <i>createVAPFlag</i> is true.
password	Optional. The password to access the PureApplication System console – required when <i>createVAPFlag</i> 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
vapZipFile	Required. The path to the *.zip file that the vap-builder built
ipasHost	Required. The URL of PureApplication System
username	Required. The user name that is required to access the PureApplication System console
password	Required. The password that is required to access the PureApplication System console
profileName	Required. The profile name that is used to deploy VAP
cloudGroupName	Required. The cloud group name that is used to deploy VAP
ipGroupName	Required. The IP group name that is used to deploy VAP
priority	Required. The priority that is used to deploy VAP



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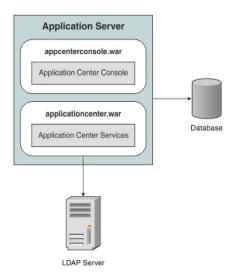
Introduction to Application Center

- 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 user documentation.



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 user documentation.
 - 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 user documentation.



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 +.

					_		2. Click + to ad	d.
	IBM PureA	pplication Syst	em	Workload Console		/_		
	Welcome	Instances 🔸	Patterns	• Catalog	-			
	Virtual Appli	cation Instan	ces	<i>e</i> y	÷			
	Search				↑↓ 🕶			
	Web Applicatio	on Pattern Type	2.0		-			
Select	Web Ap	plicatio	n Pat	tern Ty	pe 2.0) .		



Create Virtual Application Pattern (2 of 2)

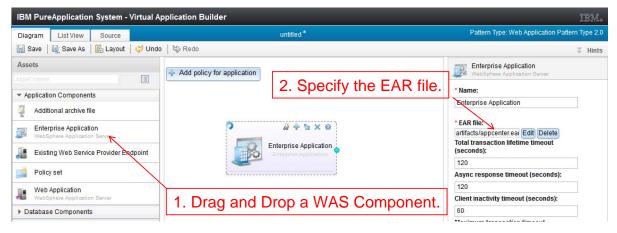
- In the dialog, select a template to start from, then click Start Building.
 - Select the template that is convenient for you.
 - You must create one web application component, one database component, and one user registry component.
 - For this module, select the **Blank Application** template.

	Start building your virtual application. Choose one template of selected patterr	n type to start build	ing your virtual application.	
	Pattern type Web Application Pattern Type 2.0 ¥ Blank application ¥ Blank Java EE Web poplication ¥	Description: Blank application Preview:		More information •
1. Se	elect Blank applic	ation.		
			2. Click Star	t Building.
			Start Buildi	ng Cancel



Add an Enterprise Application Component

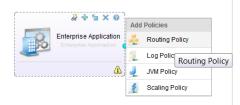
- On the Diagram pane on the left, expand **Application Components**.
- Drag an Enterprise Application component.
- On the property pane on the right, select the component, and specify the EAR file for the application center.





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.



Customized Routing	*
HTTP: 🗾	
ITTPS:	
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.





Connect the application and the database

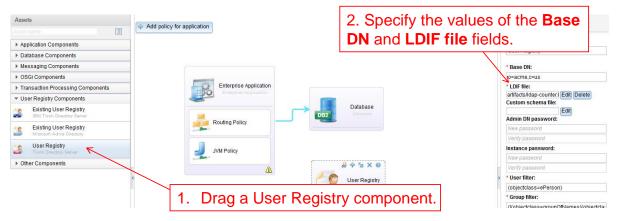
- From the Enterprise Application component, click and hold the solid circle on the right edge, move the mouse to the database component, and then release.
 - You created a connection (link) between the web application and the database.
- Click the connection line, and specify the data source as jdbc/AppCenterDS.





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.





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.

	Enterprise Application -> User Registry	Enterprise Application -> User Registry
Enterprise Application Enterprise Application	Enterprise Application → User Registry	Enterprise Application → User Registry
	* Role name:	* Role name:
Routing Policy	appcenteruser	appcenteradmin 🗸
	User role mapping:	User role mapping:
JVM Policy		
Sector States	Group role mapping:	Group role mapping:
	* Manning encoded authington	
User Registry	* Mapping special subjects:	* Mapping special subjects: None
	AllAuthenticatedUsers	AllAuthenticatedUsers
	Everyone	Everyone
1. Create 2 links.	2 Specify t	he Role name.



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:	
Worklight Application Center	
Description:	
Blank application	

Welcome Instances - Patterns -	Catalog -	Cloud + System +		
Virtual Application Patterns	令 凶 令	Worklight Application Cente	r -	🟝 Deploy 🥒 Open 🔬 Export 🗙 Delete 🗊 Clone
Search		Application ID:	a-577d7e1c-c71f-4d72-9aa6-df0057bdef05	<u></u>
Web Application Pattern Type 2.0		Description:	Blank application	
Sample Java EE Web application		Created by:	deploy35	
ample Secured Java EE Web application		Updated by:	deploy35	
iample WAR EAR Web Services		Created on:		
Sample Web application only			Feb 28, 2013 6:22:04 PM	
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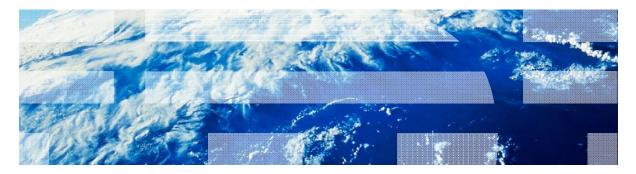
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