

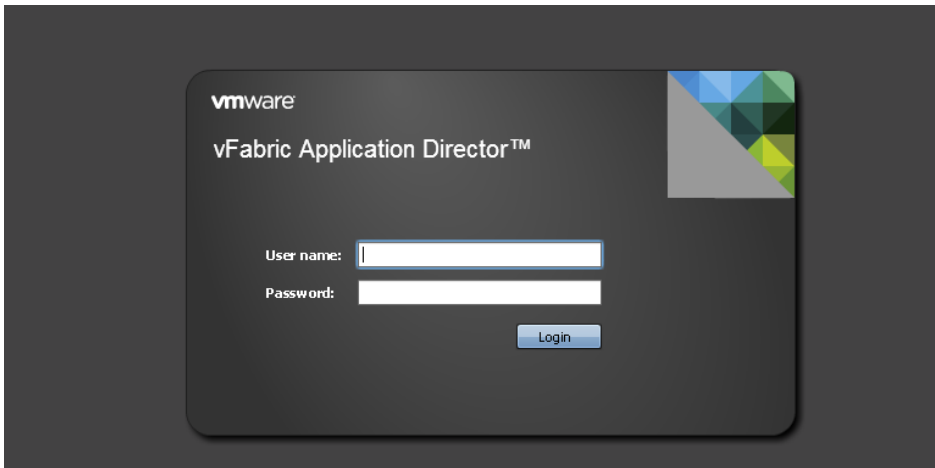
Create Piwik application using LAMP

Prerequisites

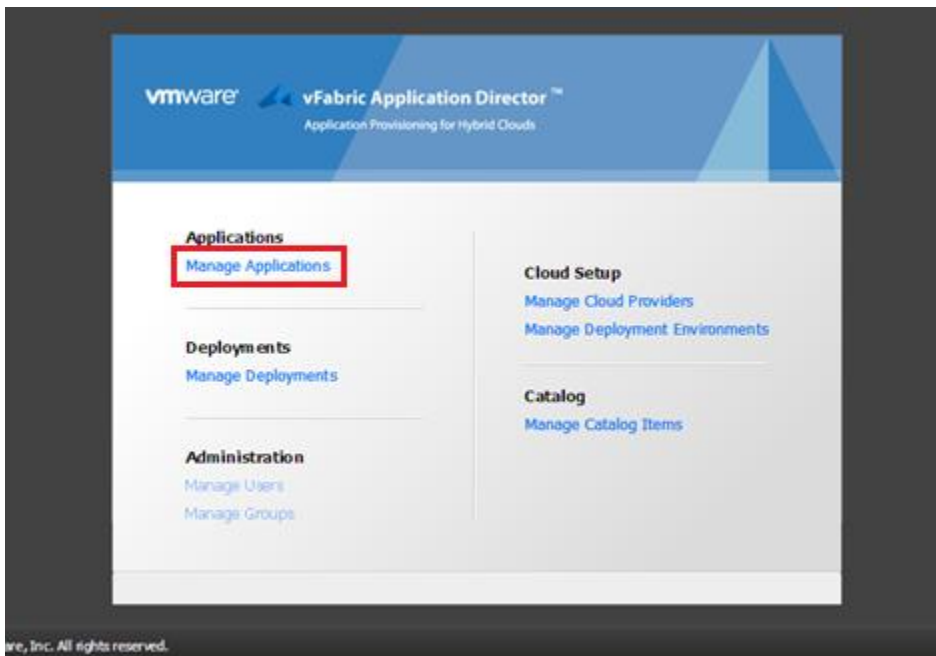
1. Install and configure VMware vFabric Application Director with vCloud Director.
2. Add LAMP as a service in the Application Director Catalog.


Steps

1. Login to the Application Director with a user that has application architect rights.



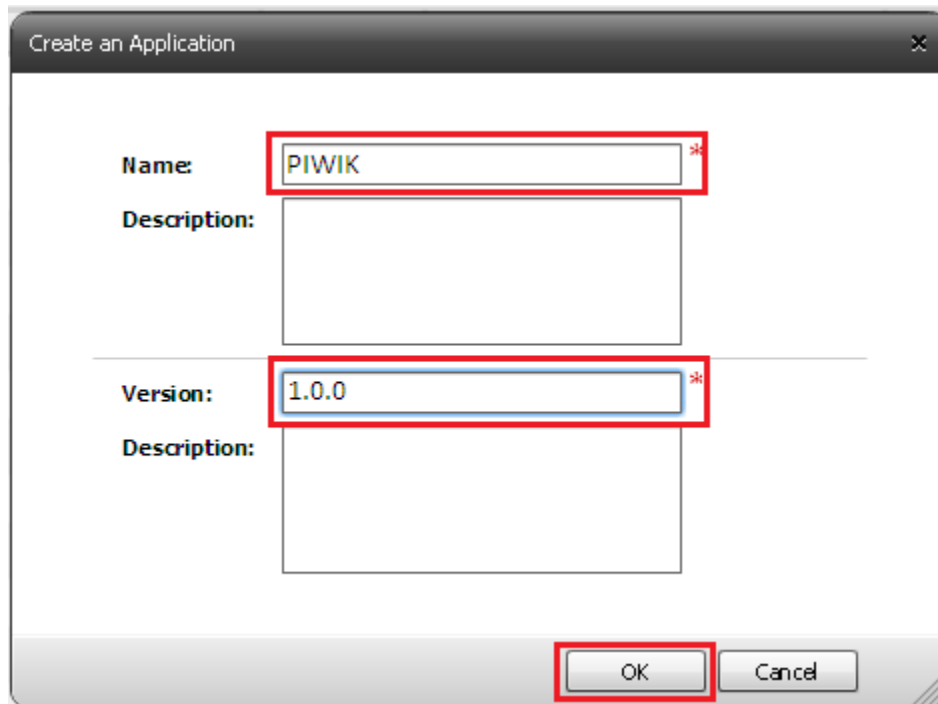
2. Click on **Manage Applications**. This will take you to the list view of all applications.



3. Click on  to add a new application.

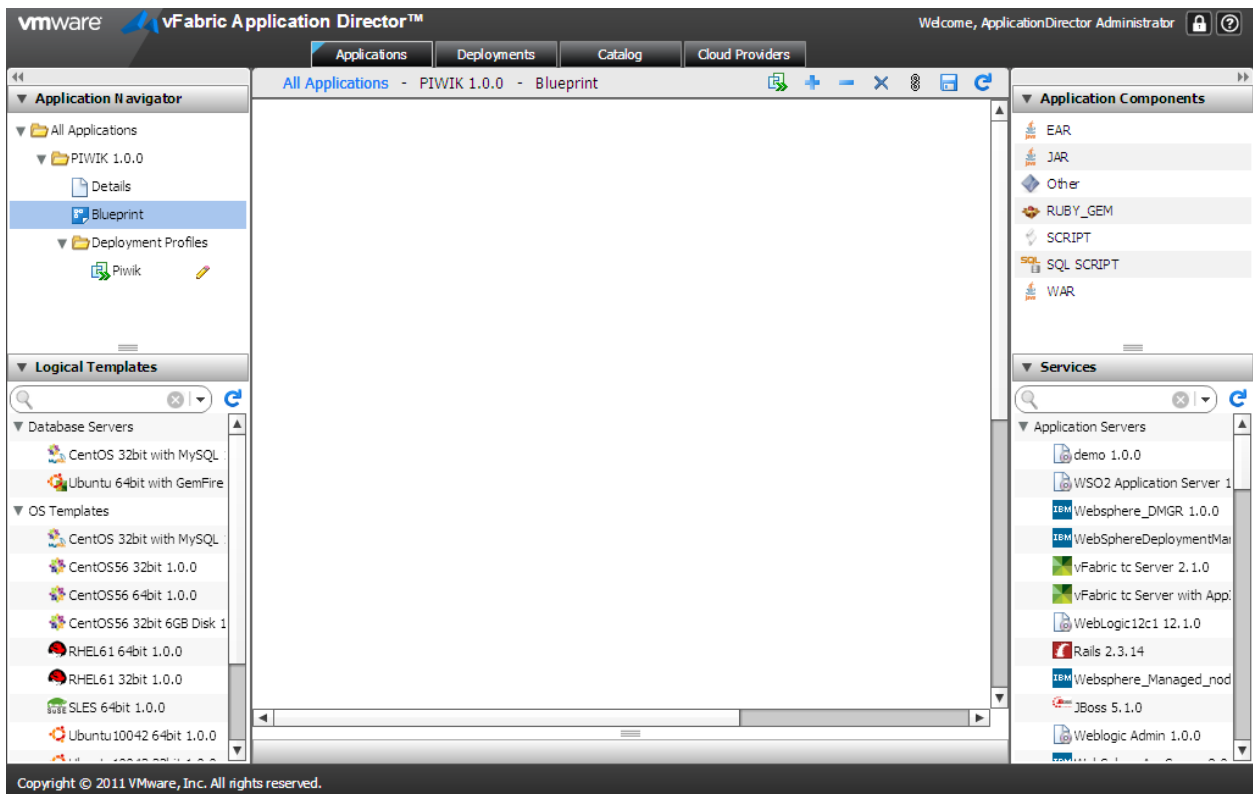


4. Provide the following required details
Name: PIWIK
Version: 1.0.0
Click **OK**

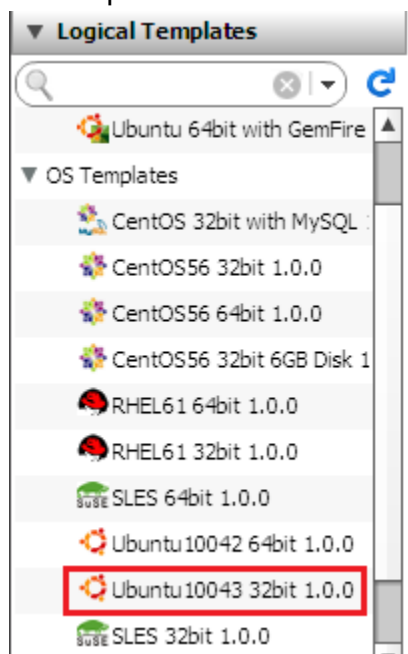


The screenshot shows a "Create an Application" dialog box. It has two sections for application details. The first section has a "Name:" label and a text input field containing "PIWIK". The second section has a "Version:" label and a text input field containing "1.0.0". Both input fields are highlighted with red rectangles. Below each input field is a larger "Description:" text area. At the bottom of the dialog, there are "OK" and "Cancel" buttons, with the "OK" button highlighted by a red rectangle.

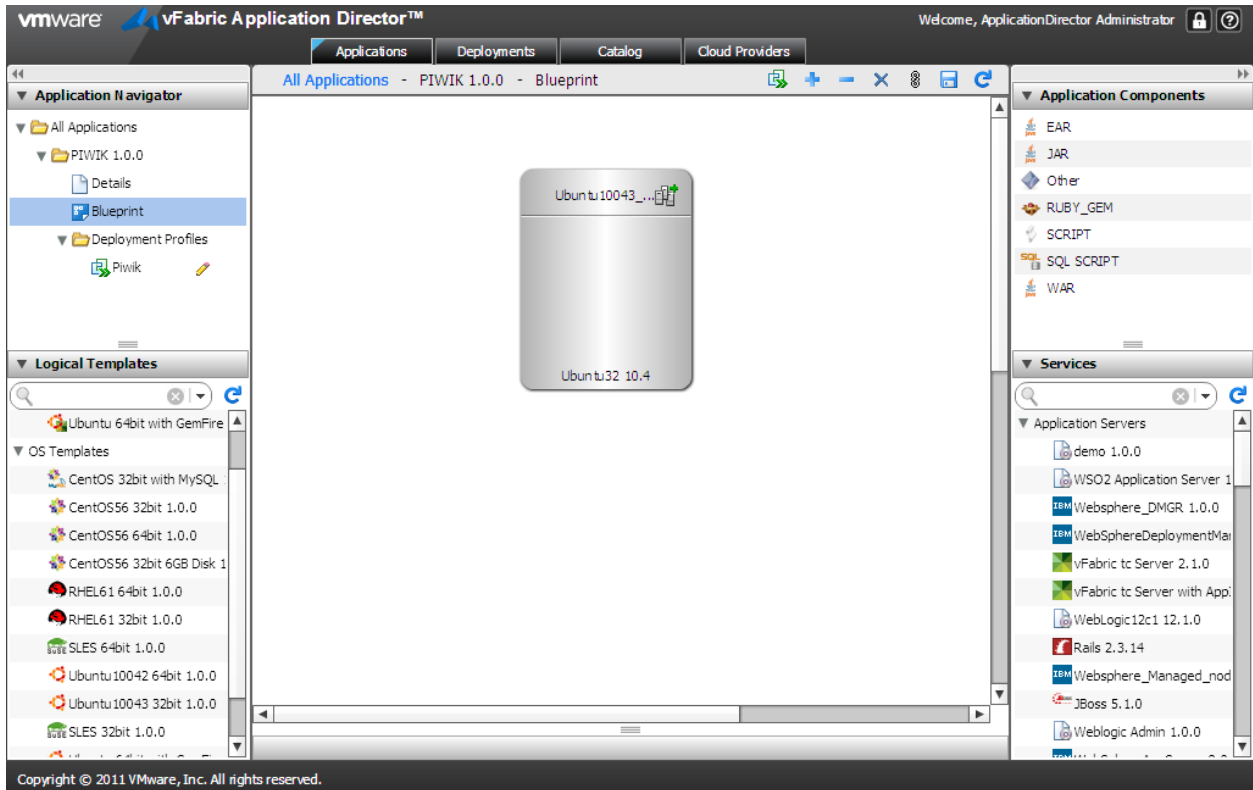
5. On successful application creation, the user will be re-directed to the blueprint editor page.



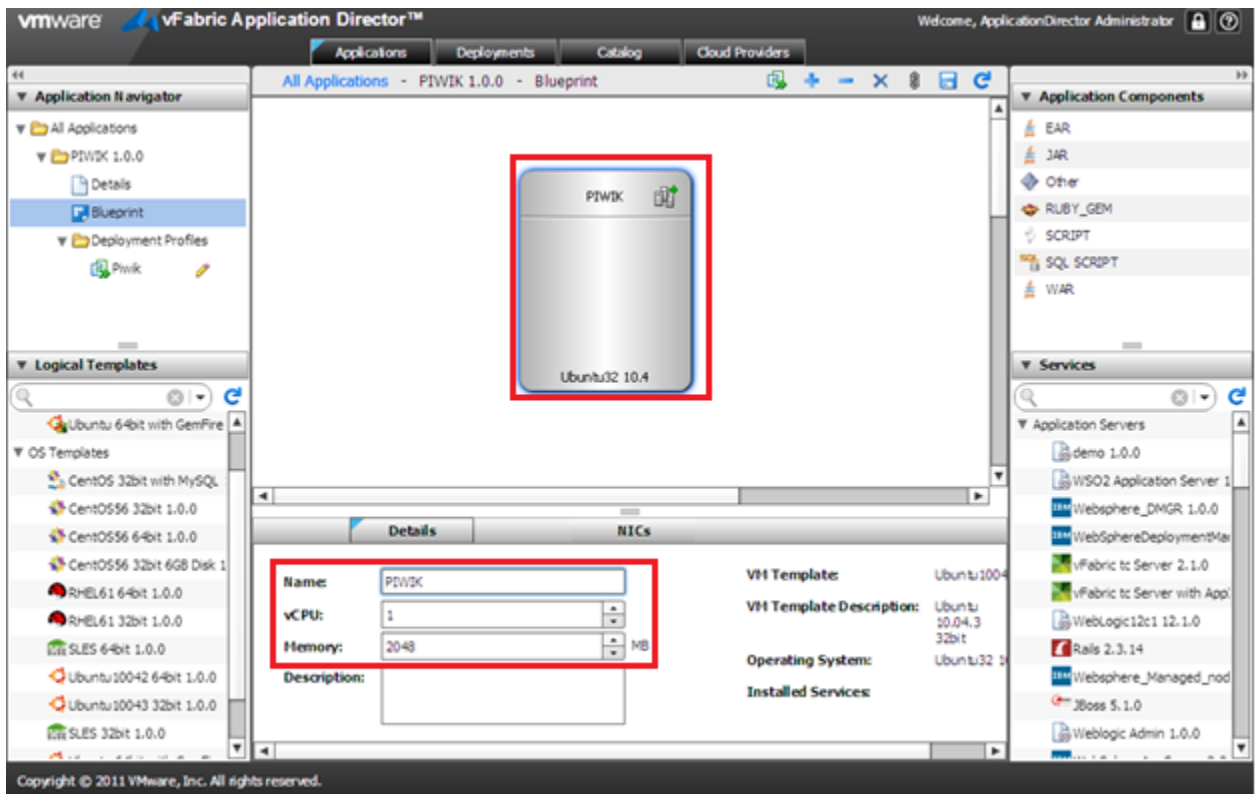
6. You will see **Logical Templates** on the bottom left.
7. Drag & drop any template of Linux flavor for example Ubuntu10043_32bit_1.0 in the central white canvas area. This template needs to have been uploaded and registered in the cloud provider.



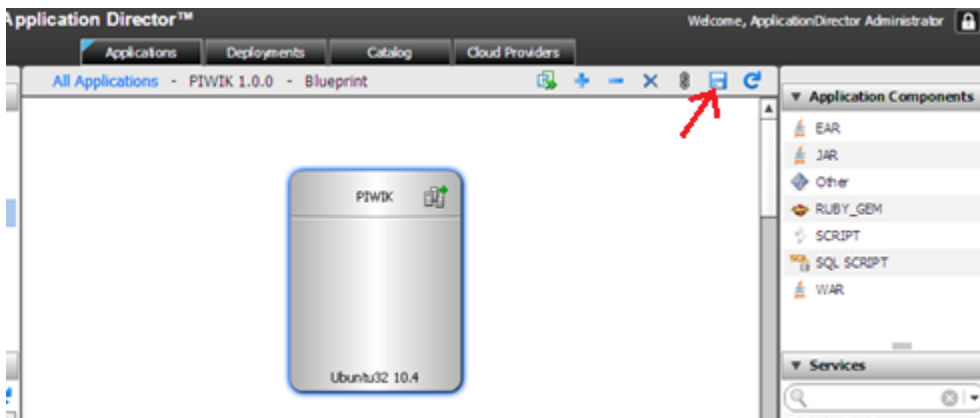
8. Now we will have a node in the canvas.



9. Select the dragged node. In the **Details** pane, type **PIWIK** in the name field, this will be the hostname for this node. Keep the vCPU and Memory to their default values which is **1** and **2048** respectively.

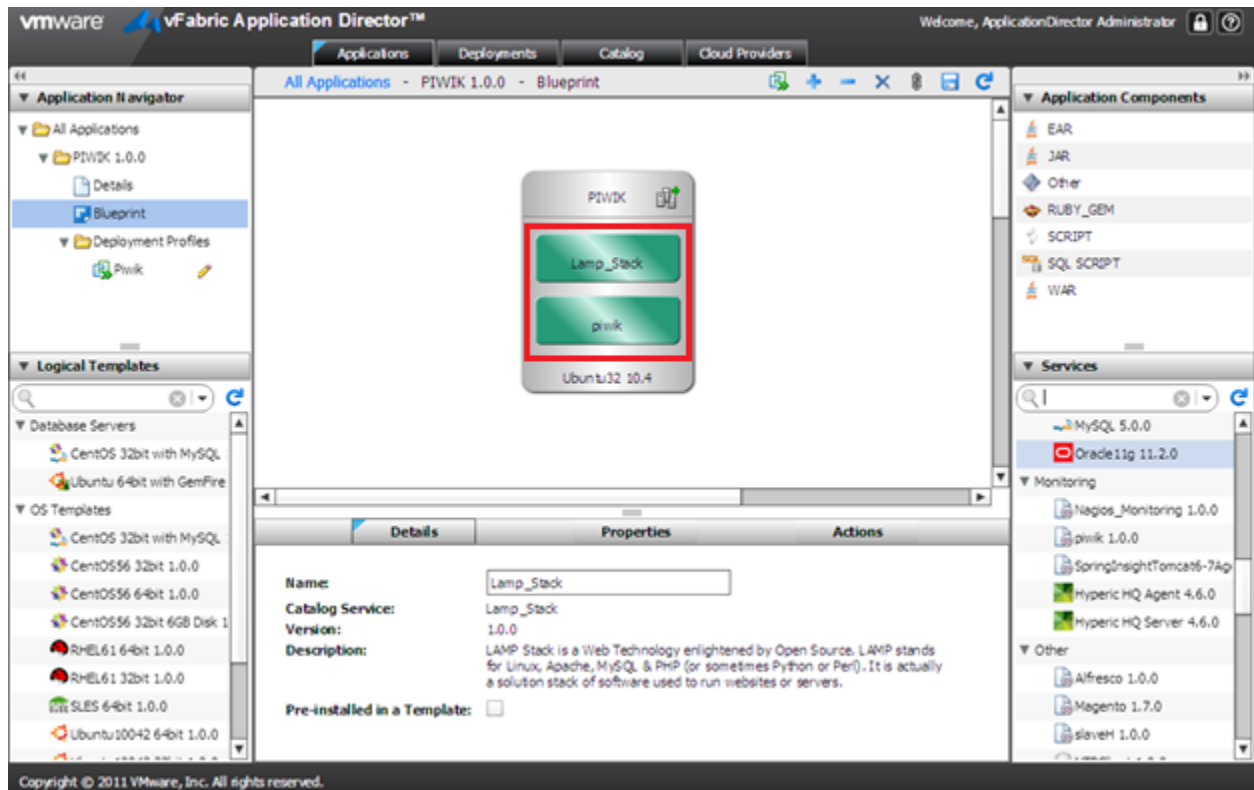



10. Save the application.



Configuring

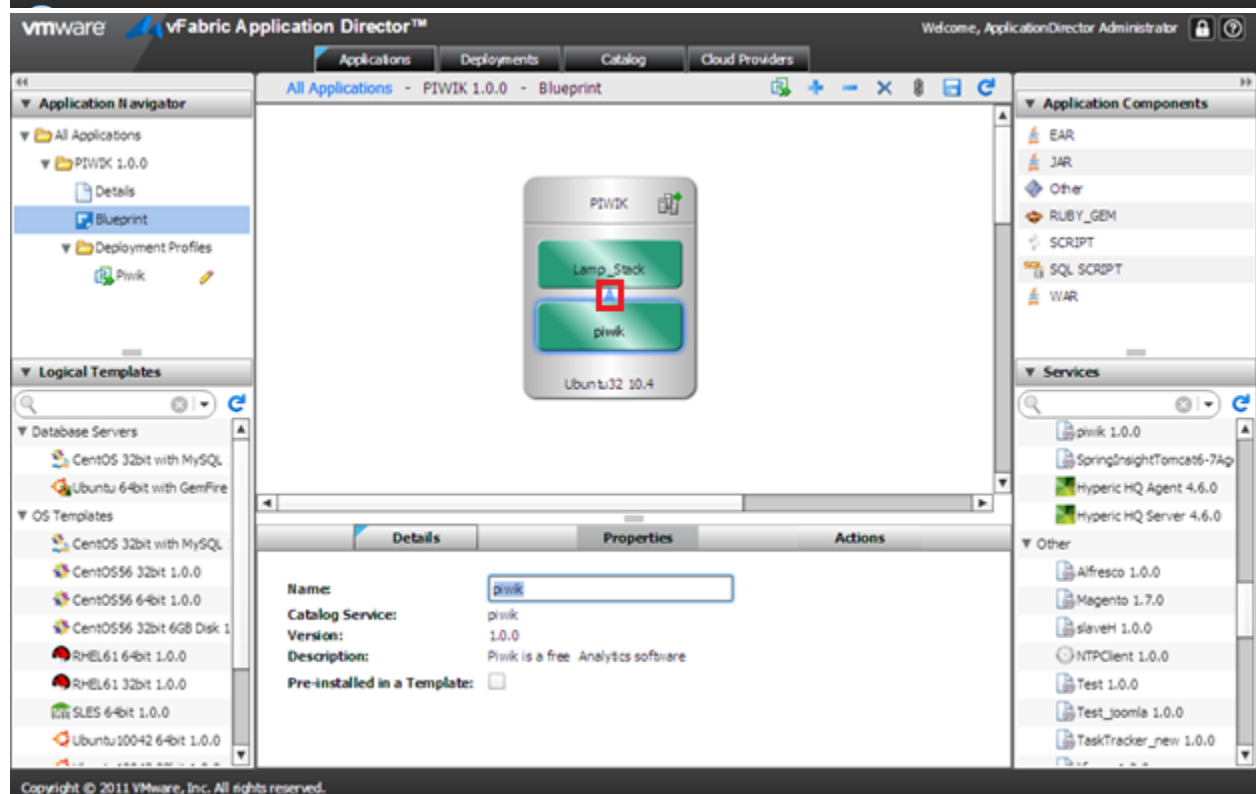
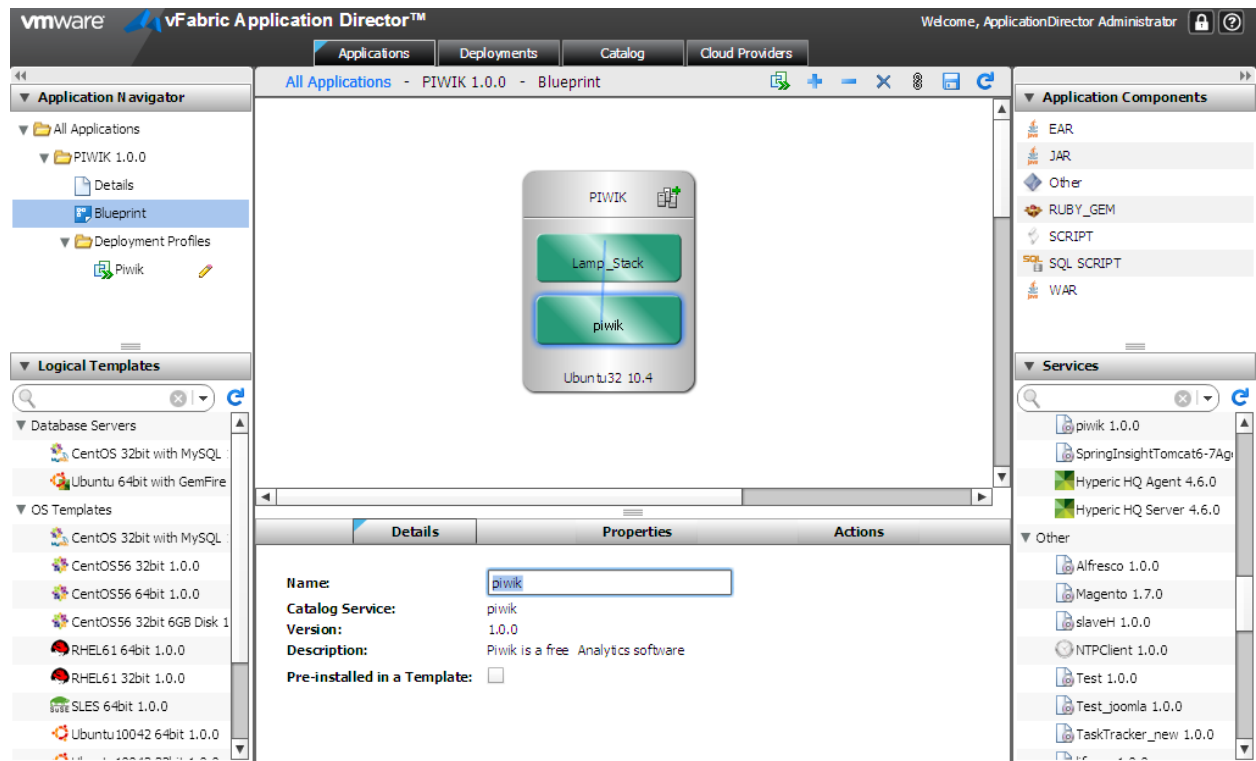
1. From the Services panel on the bottom right, drag and drop the services labeled LAMP_Stack and piwik on the PIWIK Node.



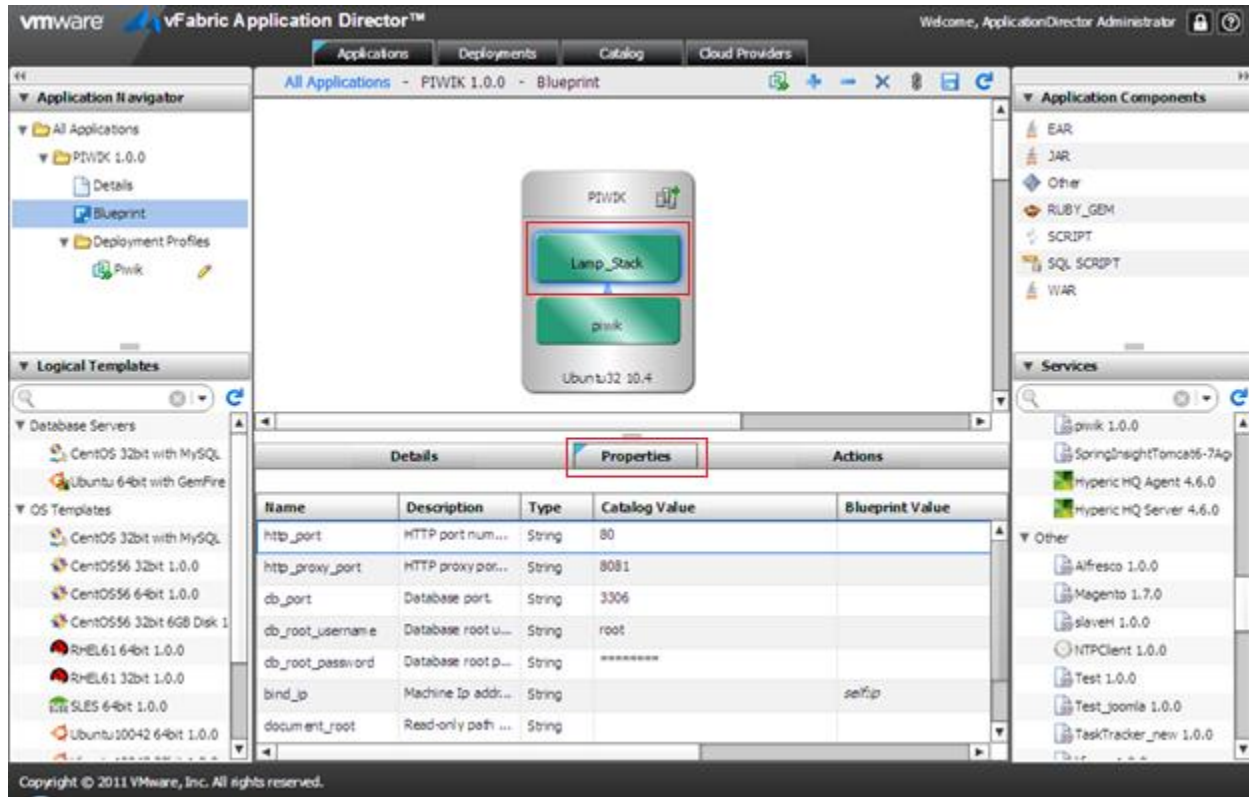
2. Now Click on the relationship icon  to establish relation between these two services



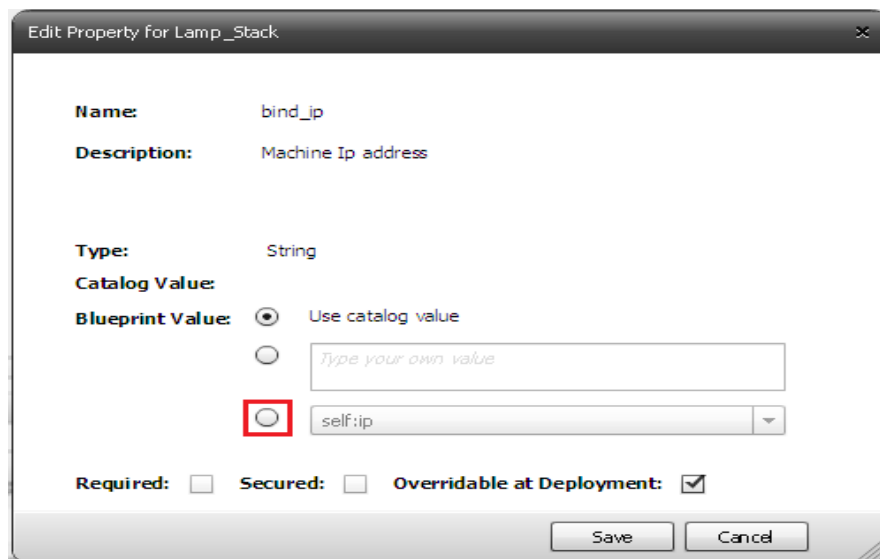
3. For Piwik service to be installed, first Lamp_Stack service must be installed prior to piwik service. So to add this relation we have to click on the relationship icon as told above and click from piwik service towards Lamp_Stack service as shown



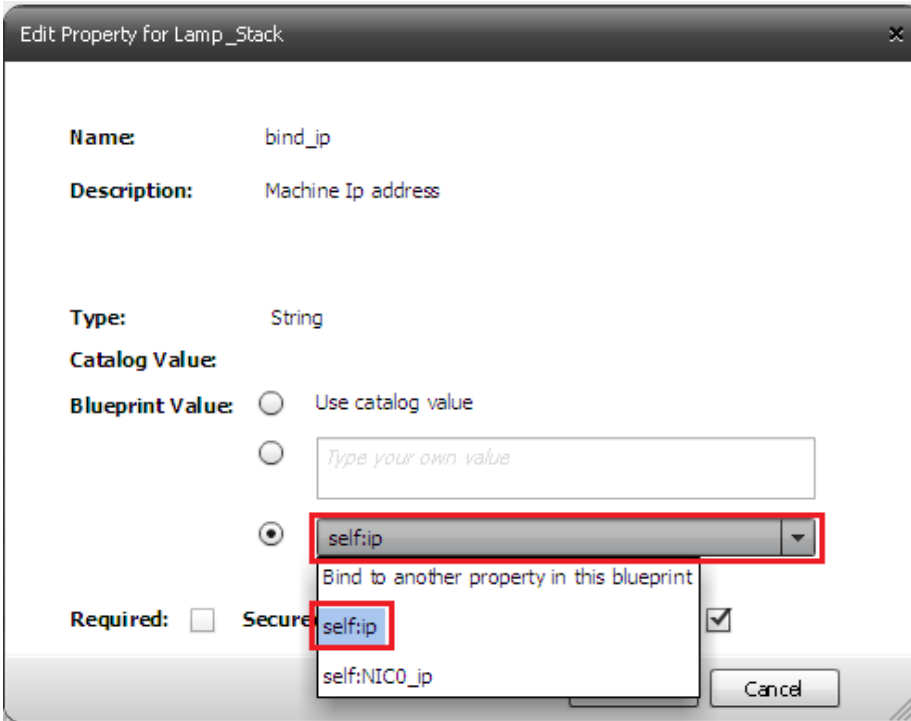
4. Click on the LAMP_Stack service and go to **properties** tab in the lower pane.



5. Scroll down until you see **bind_ip** property. Double Click this value then click on the third radio button for using bind value as shown.



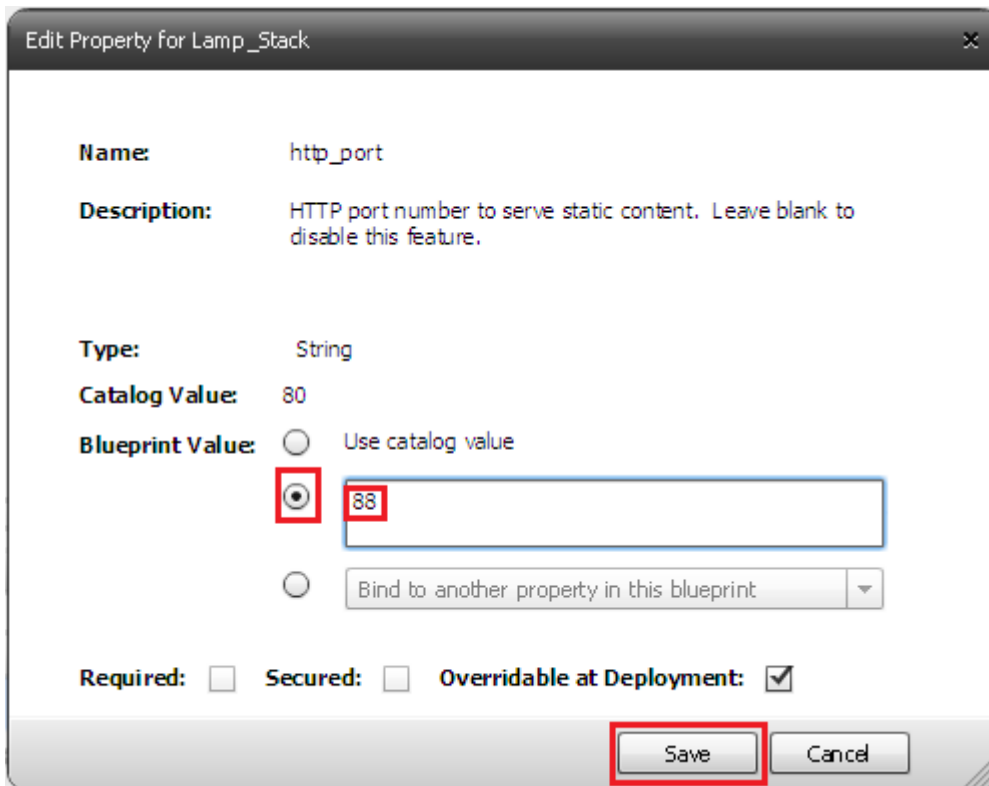
6. Click on the Drop Down list and select **self:ip** and Click on **Save** button.



- To change other default value, click on the respective properties and change the value. For example to change the **http_port** property to 88, click on it

Details		Properties		Actions	
Name	Description	Type	Catalog Value	Blueprint Value	
http_port	HTTP port num...	String	80		
http_proxy_port	HTTP proxy por...	String	8081		
db_port	Database port.	String	3306		
db_root_username	Database root u...	String	root		

Then Click on the second radio button to set our own value and finally click on **Save** button as shown



Dialog box titled "Edit Property for Lamp_Stack".

Name: http_port

Description: HTTP port number to serve static content. Leave blank to disable this feature.

Type: String

Catalog Value: 80

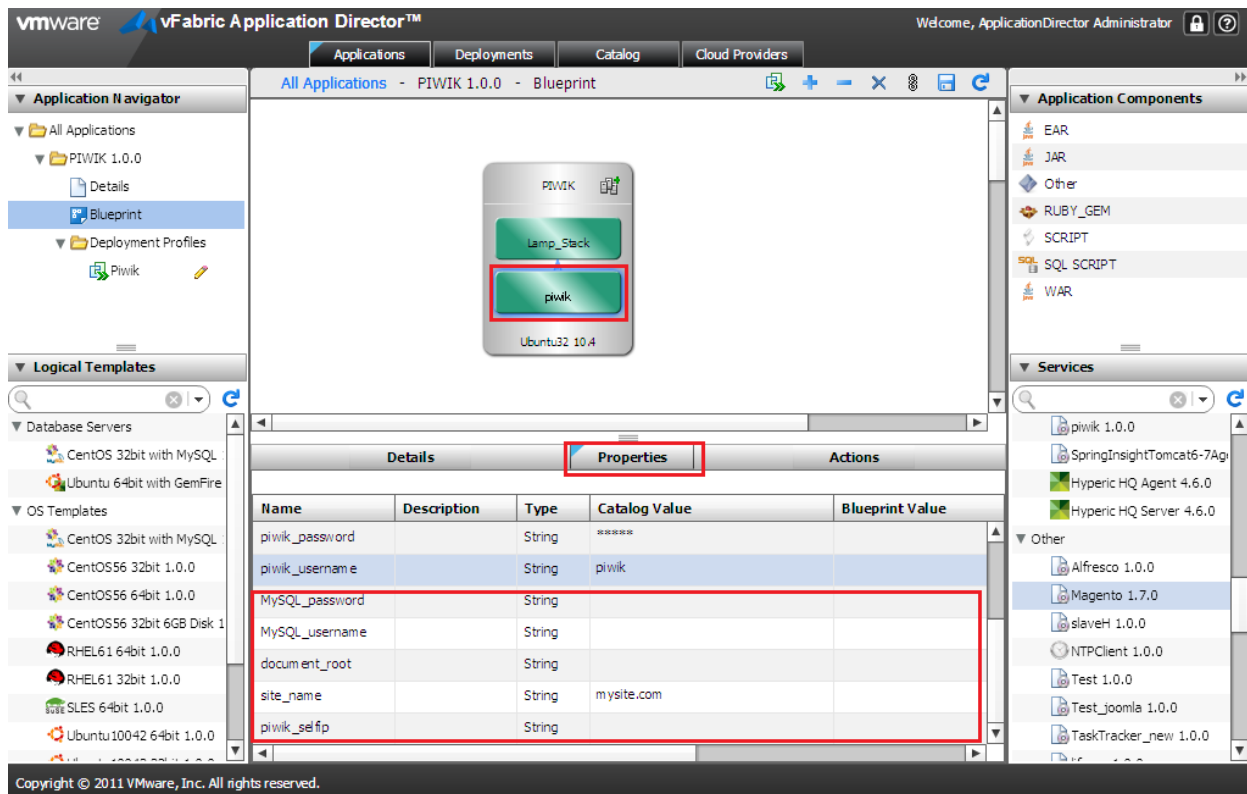
Blueprint Value:

- ☐ Use catalog value
- ☒
- ☐ Bind to another property in this blueprint

Required: ☐ **Secured:** ☐ **Overridable at Deployment:** ☒

Buttons: Save, Cancel

- Click on the piwik service and go to **properties** tab in the lower pane. Scroll down until you see **MySQL_password, MySQL_username etc.** property



vmware vFabric Application Director™

Welcome, ApplicationDirector Administrator

Applications Deployments Catalog Cloud Providers

All Applications - PIWIK 1.0.0 - Blueprint

Application Navigator

- All Applications
 - PIWIK 1.0.0
 - Details
 - Blueprint
 - Deployment Profiles
 - Piwik

Logical Templates

- Database Servers
 - CentOS 32bit with MySQL
 - Ubuntu 64bit with GemFire
- OS Templates
 - CentOS 32bit with MySQL
 - CentOS56 32bit 1.0.0
 - CentOS56 64bit 1.0.0
 - CentOS56 32bit 6GB Disk 1
 - RHEL61 64bit 1.0.0
 - RHEL61 32bit 1.0.0
 - SLES 64bit 1.0.0
 - Ubuntu10042 64bit 1.0.0

Application Components

- EAR
- JAR
- Other
- RUBY_GEM
- SCRIPT
- SQL SCRIPT
- WAR

Services

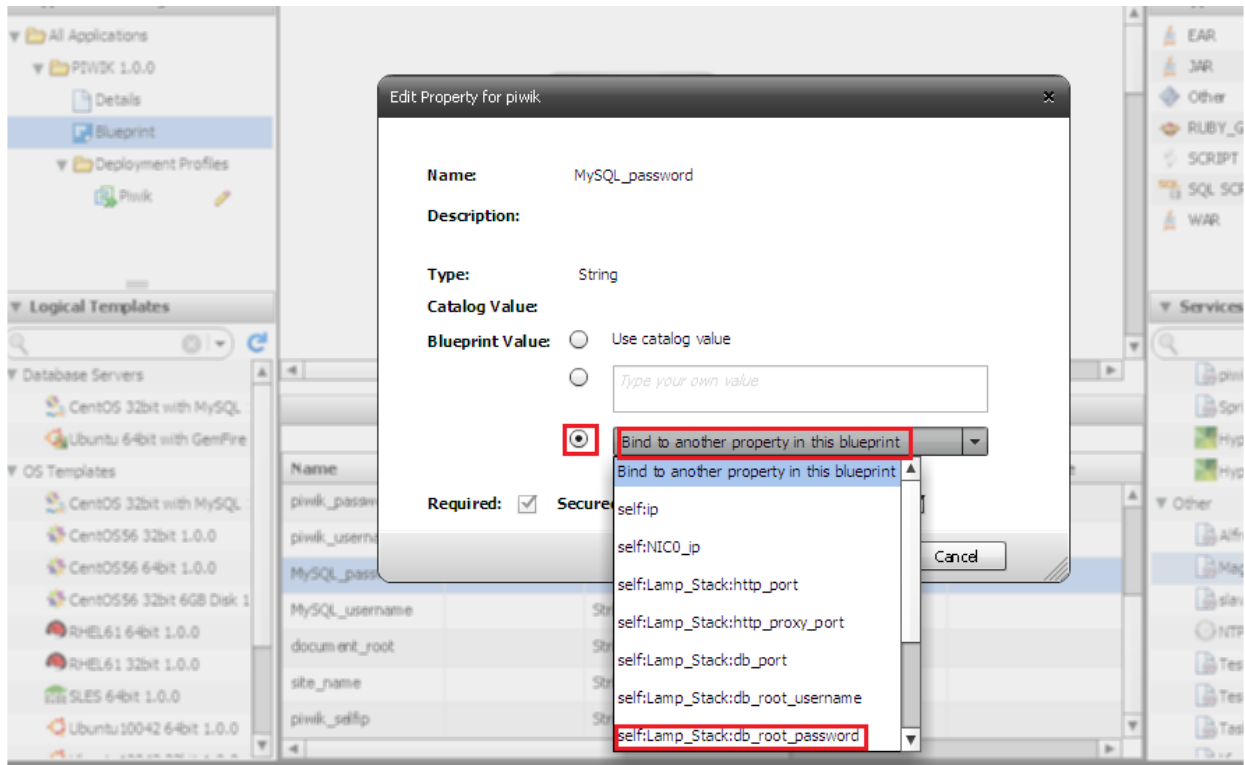
- piwik 1.0.0
- SpringInsightTomcat6-7Ag
- Hyperic HQ Agent 4.6.0
- Hyperic HQ Server 4.6.0
- Other
 - Alfresco 1.0.0
 - Magento 1.7.0
 - slaveH 1.0.0
 - NTPClient 1.0.0
 - Test 1.0.0
 - Test_joomla 1.0.0
 - TaskTracker_new 1.0.0

Details Properties Actions

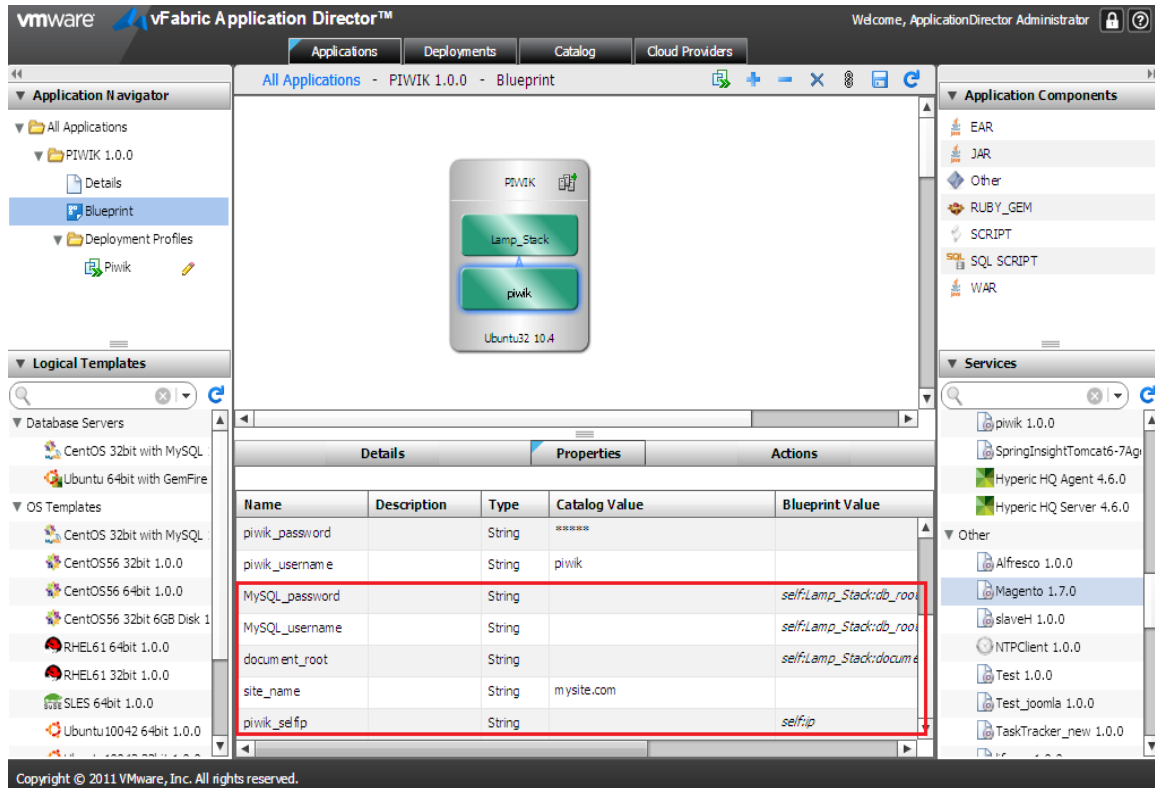
Name	Description	Type	Catalog Value	Blueprint Value
piwik_password		String	*****	
piwik_username		String	piwik	
MySQL_password		String		
MySQL_username		String		
document_root		String		
site_name		String	mysite.com	
piwik_selfip		String		

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- Double Click this value one by one then click on the third radio button for using bind value as shown. For example to set **MySQL_password**, click on it, and then click on the third radio button. After that click on the drop down list and select **self:Lamp_Stack:db_root_password** as shown below.



10. Follow the same step(step-9) to set following properties
- MySQL_username** to **self:Lamp_Stack:db_root_username**
 - document_root** to **self:Lamp_Stack:document_root**
 - piwik_selfip** to **self:ip**



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 - RHEL61 32bit 1.0.0
 - SLES 64bit 1.0.0
 - Ubuntu10042 64bit 1.0.0

Application Components

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- JAR
- Other
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- SCRIPT
- SQL SCRIPT
- WAR

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- piwik 1.0.0
- SpringInsightTomcat6-7Ag
- Hyperic HQ Agent 4.6.0
- Hyperic HQ Server 4.6.0
- Other
 - Alfresco 1.0.0
 - Magento 1.7.0
 - slaveH 1.0.0
 - NTPClient 1.0.0
 - Test 1.0.0
 - Test_joomla 1.0.0
 - TaskTracker_new 1.0.0

Details Properties Actions

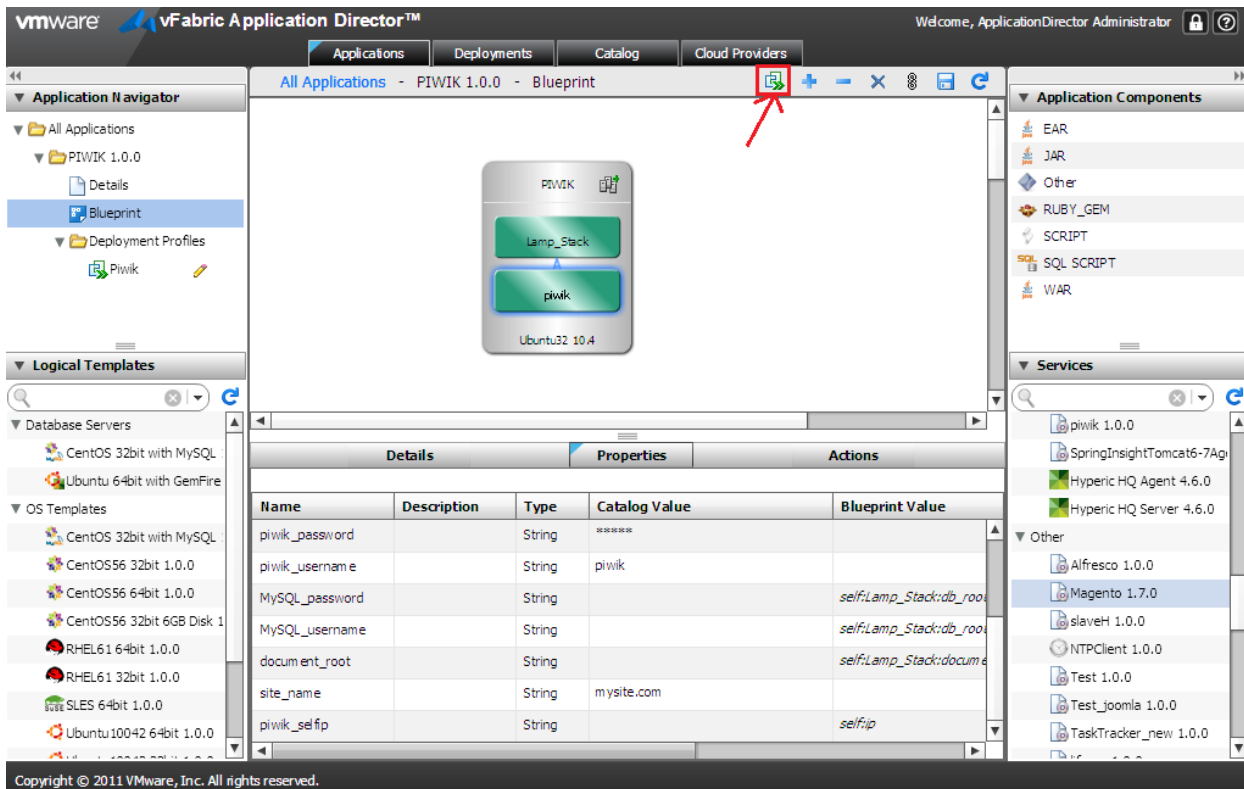
Name	Description	Type	Catalog Value	Blueprint Value
piwik_password		String	*****	
piwik_username		String	piwik	
MySQL_password		String		self:Lamp_Stack::db_root
MySQL_username		String		self:Lamp_Stack::db_root
document_root		String		self:Lamp_Stack::docume
site_name		String	mysite.com	
piwik_selfip		String		self:ip

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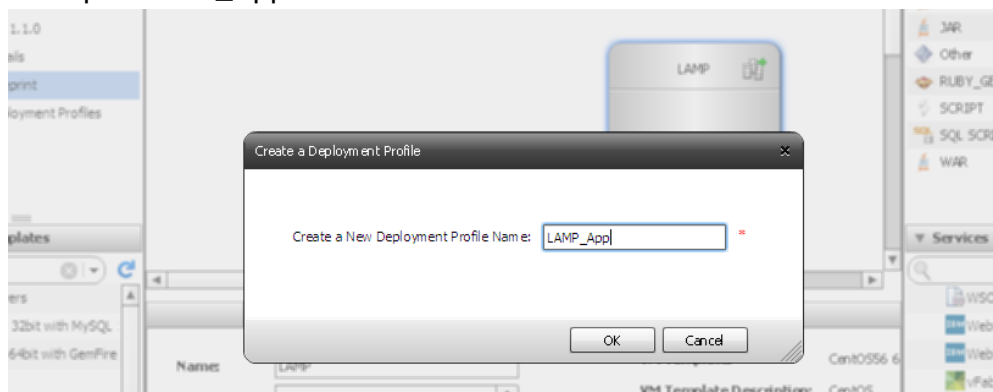
11. If you want to customize piwik properties the follow step-7 of Lamp_Stack above
12. Save the Blueprint.

Deploying the LAMP application

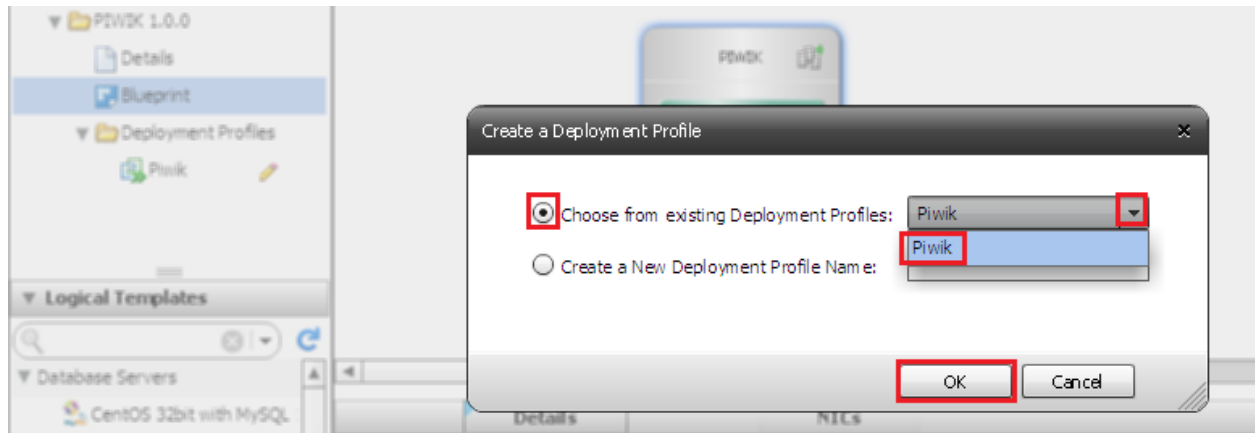
1. Login to the Application Director UI with the user which has the deployment rights.
2. Click on the PIWIK Application in the Application List page.
3. Click on the Deploy icon on the Blueprint page.



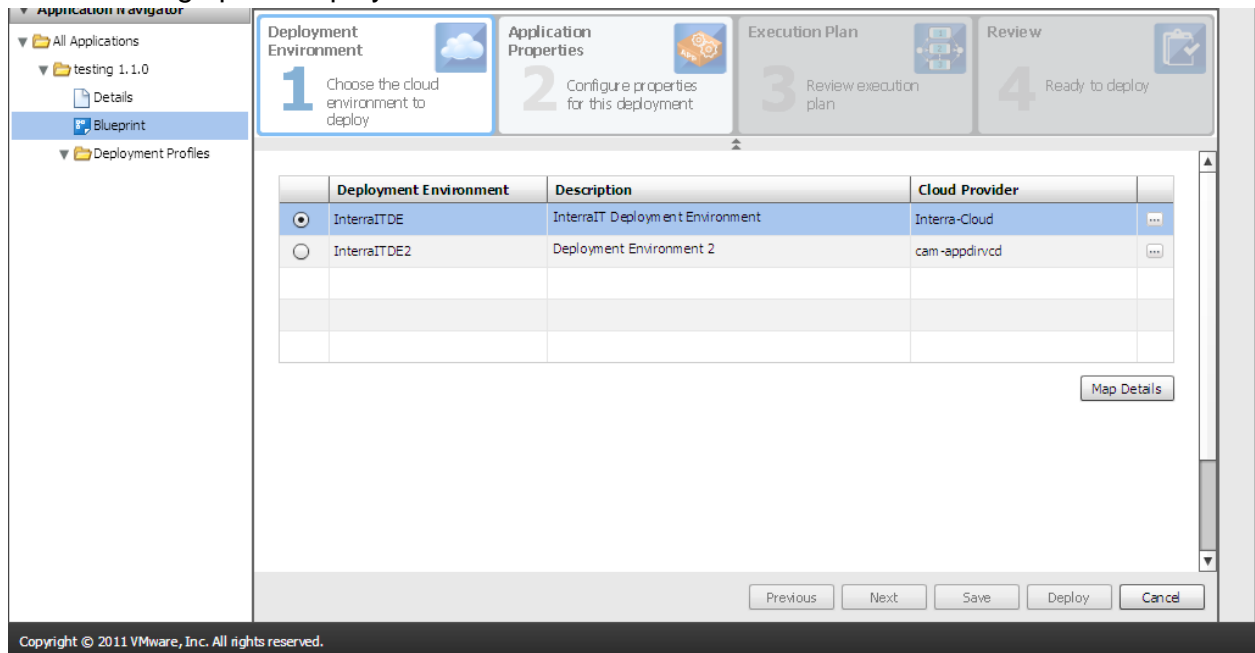
4. It will bring up the deployment profile window. If no Deployment profile was created earlier user will be redirected into a tab where he/she has to enter a deployment profile name for example LAMP_App. Click **OK** same like shown below.



Otherwise user will be redirected into a tab where he/she has to select the created deployment profile or can create new deployment profile as shown below



5. This will bring up the deploy wizard.



6. Select the Radio Button for the appropriate Deployment Environment and Click on the **Map Details** button. Click **Next** to view the **Application Properties**.

Application Navigator

- All Applications
 - PIWIK 1.0.0
 - Details
 - Blueprint
 - Deployment Profiles
 - PIWIK

All Applications - PIWIK 1.0.0 - Piwik

1 Choose the cloud environment to deploy

2 Configure properties for this deployment

3 Review execution plan

4 Ready to deploy

Deployment Environment	Description	Cloud Provider
<input type="radio"/> InterraITDE	InterraIT Deployment Environment	Interra-Cloud
<input checked="" type="radio"/> InterraITDE2	Deployment Environment 2	cam-appdirvcd

Map Details

VM Templates

Node Name	Logical Template	Cloud Template
PIWIK	Ubuntu10043 32bit 1.0.0	U10043x32_v6

Networking

Logical Network Name	Nodes using this network	Cloud Network Name
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Previous **Next** Save Deploy Cancel

7. Click **Next** again to view the **Execution Plan**.

1 Choose the cloud environment to deploy

2 Configure properties for this deployment

3 Review execution plan

4 Ready to deploy

Properties: Service Lamp_Stack

Property Name	Type	Description	Required	Blueprint Value	New Value
bind_ip	String	Machine Ip address	<input type="checkbox"/>	selfip	Use Blueprint value.
db_port	String	Database port	<input type="checkbox"/>	3333	Use Blueprint value.
db_root_password	String	Database root password	<input type="checkbox"/>	*****	Use Blueprint value.
db_root_username	String	Database root user name.	<input type="checkbox"/>	root	Use Blueprint value.
document_root	String	Read-only path for Apac...	<input type="checkbox"/>		Use Blueprint value.
http_port	String	HTTP port number to se...	<input type="checkbox"/>	88	Use Blueprint value.
http_proxy_port	String	HTTP proxy port number	<input type="checkbox"/>	8888	Use Blueprint value.
mysql_service	String	Read-only command str...	<input type="checkbox"/>		Use Blueprint value.
php_ini_file	String	Read-only path to PHP ...	<input type="checkbox"/>		Use Blueprint value.

Previous **Next** Save Deploy Cancel

8. Click **Next** again and then click the **Deploy** button on the bottom button panel of the wizard.

All Applications - PIWIK 1.0.0 - Piwik

Deployment Environment
1 Choose the cloud environment to deploy

Application Properties
2 Configure properties for this deployment

Execution Plan
3 Review execution plan

Review
4 Ready to deploy

START Build

PIWIK

Lamp_Stack-INSTALL
Lamp_Stack 1.0.0

Lamp_Stack-CONFIGURE
Lamp_Stack 1.0.0

Lamp_Stack-START
Lamp_Stack 1.0.0

piwik-INSTALL
piwik 1.0.0

piwik

Previous Next Save Deploy Cancel

Applications Deployments Catalog Cloud Providers

All Applications - PIWIK 1.0.0 - Piwik

Deployment Environment
1 Choose the cloud environment to deploy

Application Properties
2 Configure properties for this deployment

Execution Plan
3 Review execution plan

Review
4 Ready to deploy

Application Name: PIWIK

Application Description:

Application Version: 1.0.0

Version Description:

Blueprint: [View Blueprint](#)

Execution Plan: [View Execution Plan](#)

Networking:

Logical Network Name	Nodes using this n...	Cloud NetworkName
Default Logical Network	PIWIK	Interra Direct Network 2

VM Templates:

Node Name	Logical Template	Cloud Template	vCPU	Memory (...)	Cluste...
PIWIK	Ubuntu10043 32bit	U10043x32_v6	1	2048	

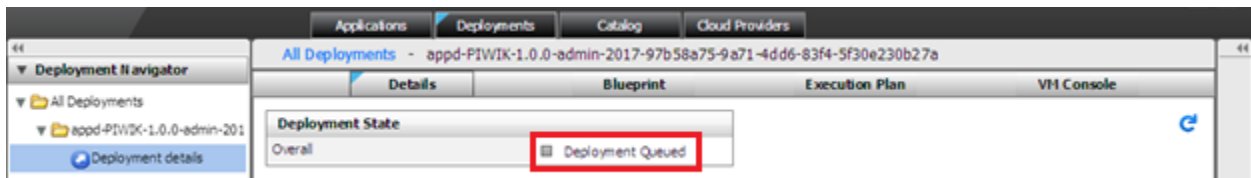
Application Properties:

Lamp_Stack

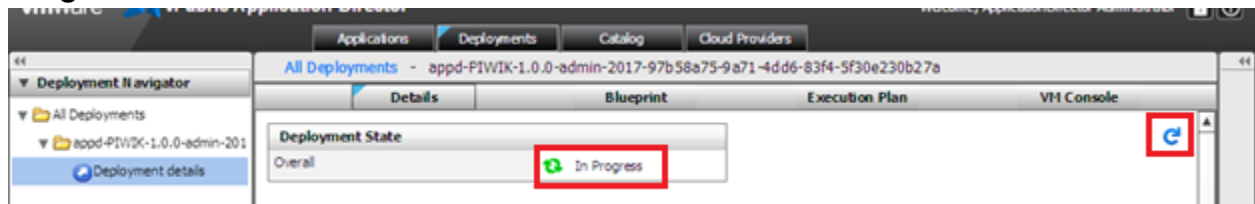
Name	Value
bind ip	selfip

Previous Next Save Deploy Cancel

- Wait for deployment details screen to come up. This will take a minute or so. At this time, the system is preparing to initiate the deployment.

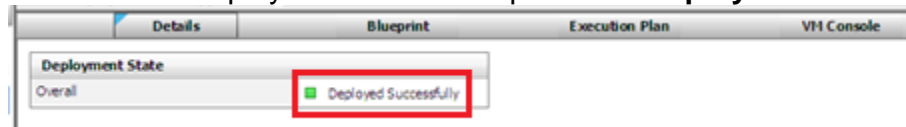


- Click on the *refresh icon* and check the deployment status. Note that it says **"In Progress"**.

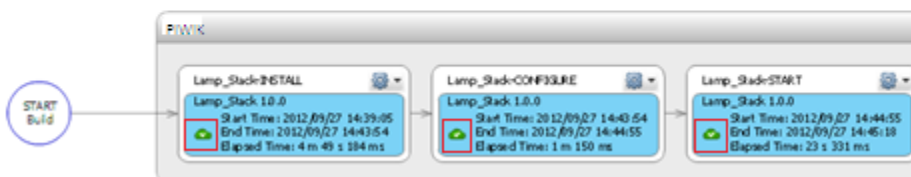


Verify Smoke test passed

- Wait until the deployment status is reported as **Deployed Successfully**.

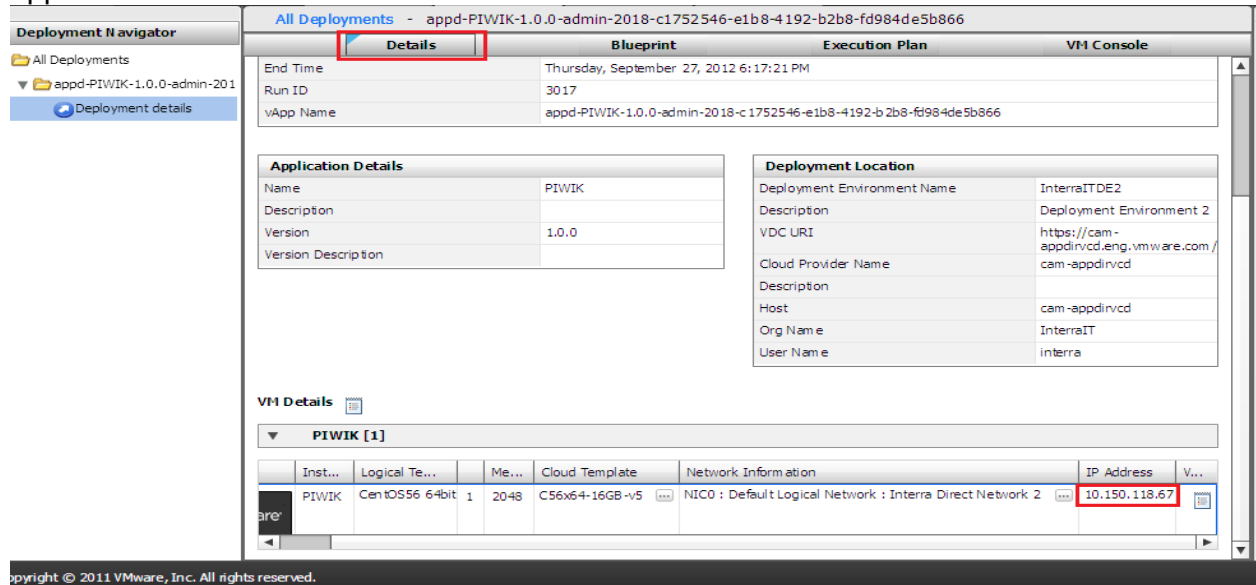


- Click on the **Execution plan** to see *green* status marks on each task.



Launching the Application

1. Click on the **Details** tab to get the IP of the machine. You will need this IP to launch the application.



Deployment Navigator

- All Deployments
- appd-PIWIK-1.0.0-admin-201
- Deployment details

All Deployments - appd-PIWIK-1.0.0-admin-2018-c1752546-e1b8-4192-b2b8-fd984de5b866

Details | Blueprint | Execution Plan | VM Console

End Time	Thursday, September 27, 2012 6:17:21 PM
Run ID	3017
vApp Name	appd-PIWIK-1.0.0-admin-2018-c1752546-e1b8-4192-b2b8-fd984de5b866

Application Details

Name	PIWIK
Description	
Version	1.0.0
Version Description	

Deployment Location

Deployment Environment Name	InterraITDE2
Description	Deployment Environment 2
VDC URI	https://cam-appdirvcd.eng.vmware.com/cam-appdirvcd
Cloud Provider Name	
Description	
Host	cam-appdirvcd
Org Name	InterraIT
User Name	interra

VM Details

PIWIK [1]

Inst...	Logical Te...	Me...	Cloud Template	Network Information	IP Address	V...
PIWIK	CentOS56 64bit	1	2048	C56x64-16GB-v5	NIC0 : Default Logical Network : Interra Direct Network 2	10.150.118.67

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2. Open your Browser and type <http://ip:port/piwik>. User will be redirected to the Login page of piwik. Type the super user credential and Click sign in.



Username:

Password:

☐ Remember Me

[Lost your password?](#)

3. After clicking sign in button following page appears

