

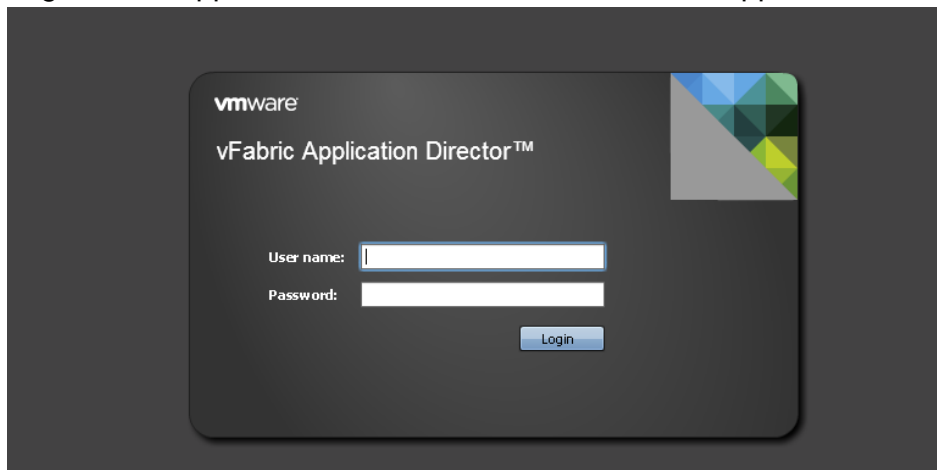
# Create LAMP application

## Prerequisites

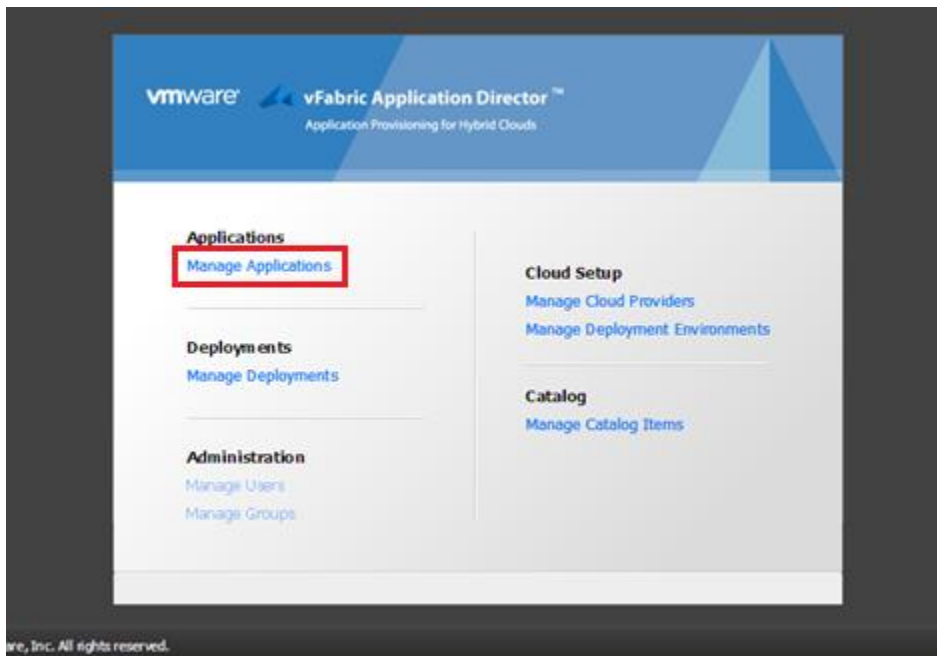
1. Install and configure VMware vFabric Application Director with vCloud Director.
2. Add LAMP as a service in the Application Director Catalog.


## 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.



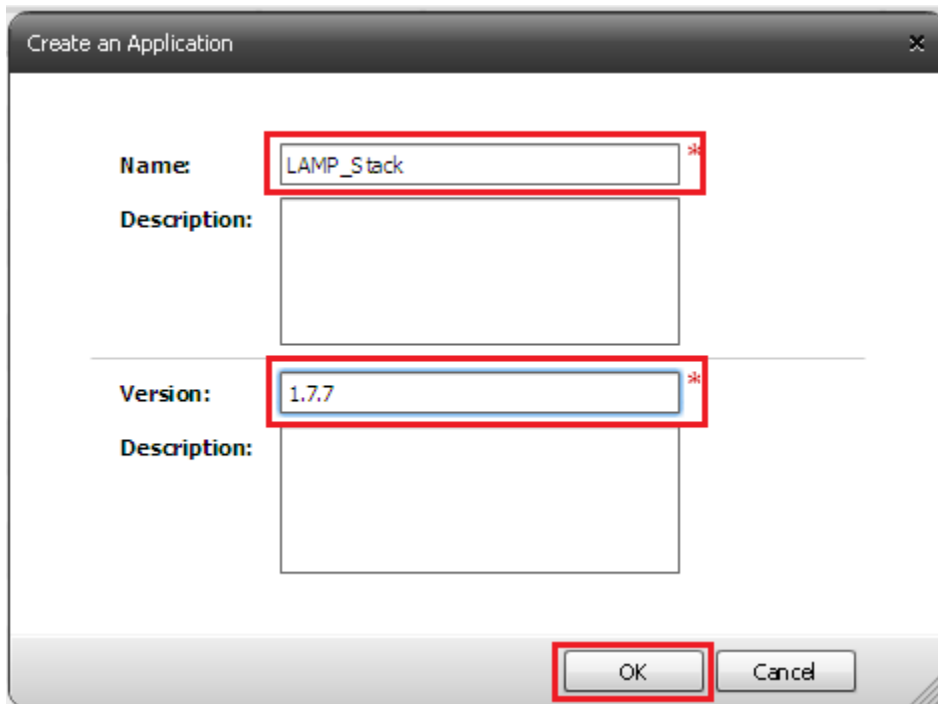
3. Click on  to add a new application.



The screenshot shows the VMware vFabric Application Director web interface. At the top, there's a navigation bar with tabs for Applications, Deployments, Catalog, and Cloud Providers. Below the navigation bar, a status bar indicates 'Total Number of Applications: 87 Applications'. A table lists existing applications with columns for Name, Description, Version, Created, Created By, Last Updated, and Last User. A red box highlights a green plus icon in the top left of the table area, indicating the 'Add Application' button.

Name	Description	Version	Created	Created By	Last Updated	Last User
Alfresco		1.0.0	2012-05-18	admin	2012-07-11	admin
apache http server		1.1.0	2012-04-26	admin	2012-06-20	admin
Cloud_Foundry_QA	Cloud_Foundry_QA	1.0.0	2012-02-20	admin	2012-02-21	admin

4. Provide the following required details  
Name: LAMP\_Stack  
Version: 1.7.7  
Click **OK**



The screenshot shows a 'Create an Application' dialog box. It has two sections. The first section has a 'Name' field with 'LAMP\_Stack' entered, a 'Description' text area, and a 'Version' field with '1.7.7' entered. The second section has a 'Description' text area. The 'OK' button at the bottom is highlighted with a red box.

**Create an Application**

**Name:** LAMP\_Stack \*

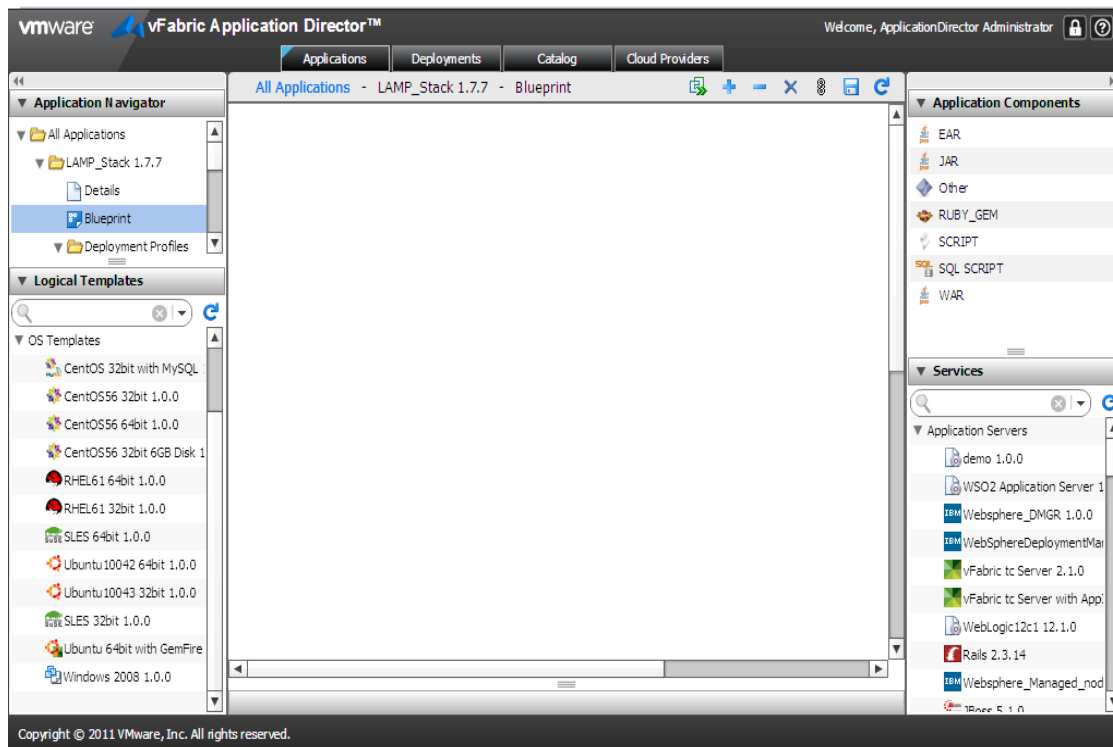
**Description:**

**Version:** 1.7.7 \*

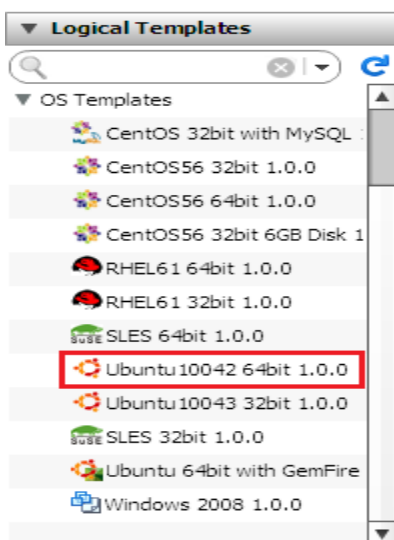
**Description:**

**OK** **Cancel**

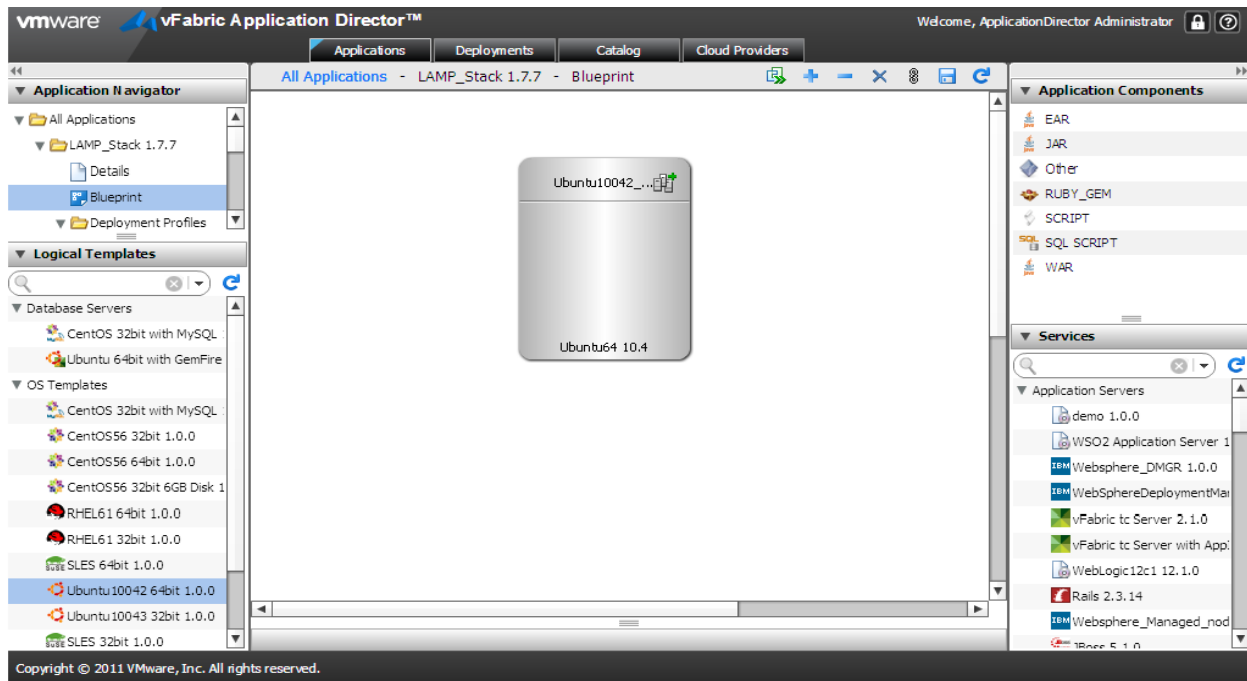
5. On successful application creation, the user will be re-directed to the blueprint editor page.



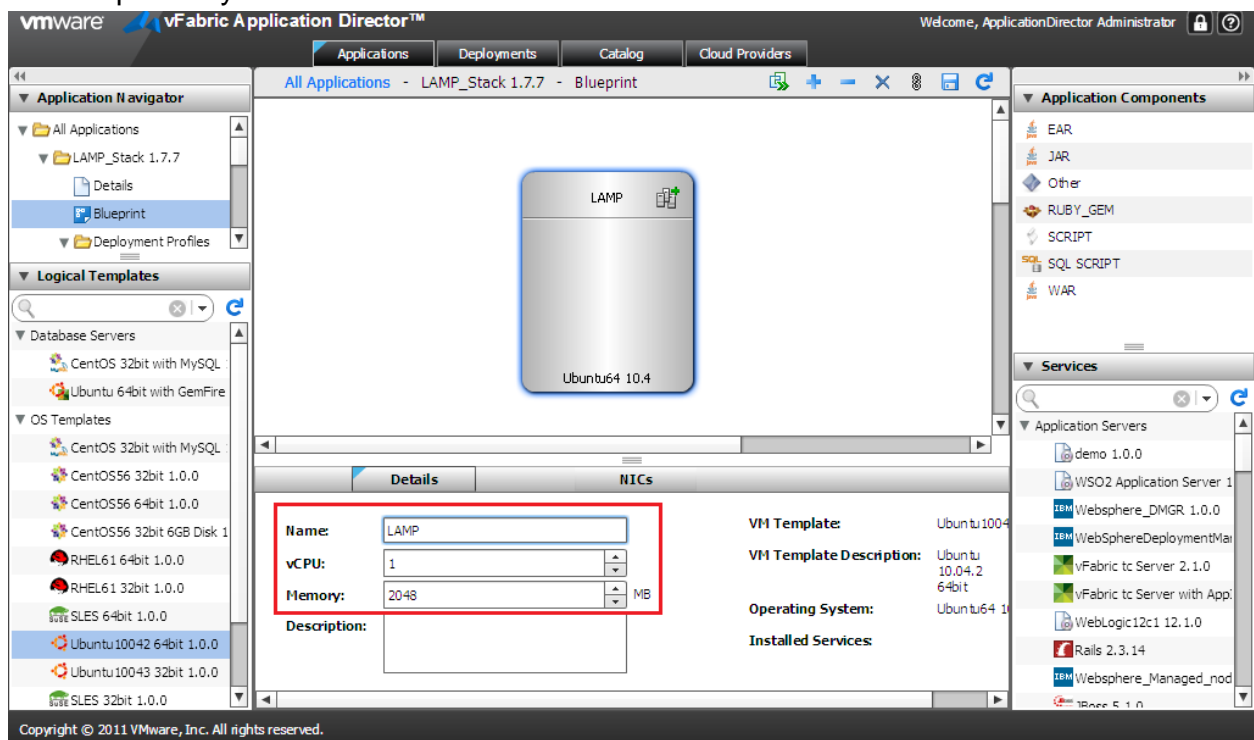
6. You will see **Logical Templates** on the bottom left.
7. Drag & drop any template of Linux flavor for example Ubuntu10042\_64bit\_1.0 in the central white canvas area. This template needs to have been uploaded and registered in the cloud provider.



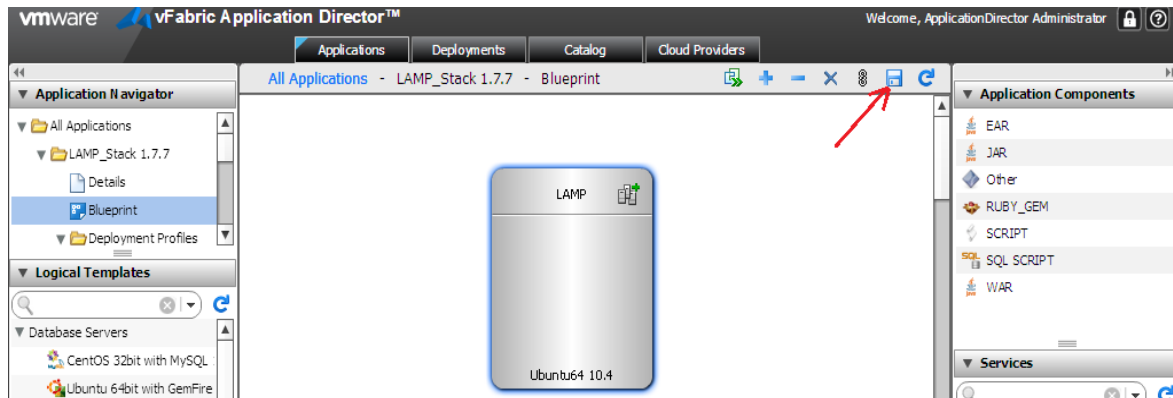
8. Now we will have a node in the canvas.



9. Select the dragged node. In the **Details** pane, type **LAMP** 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.

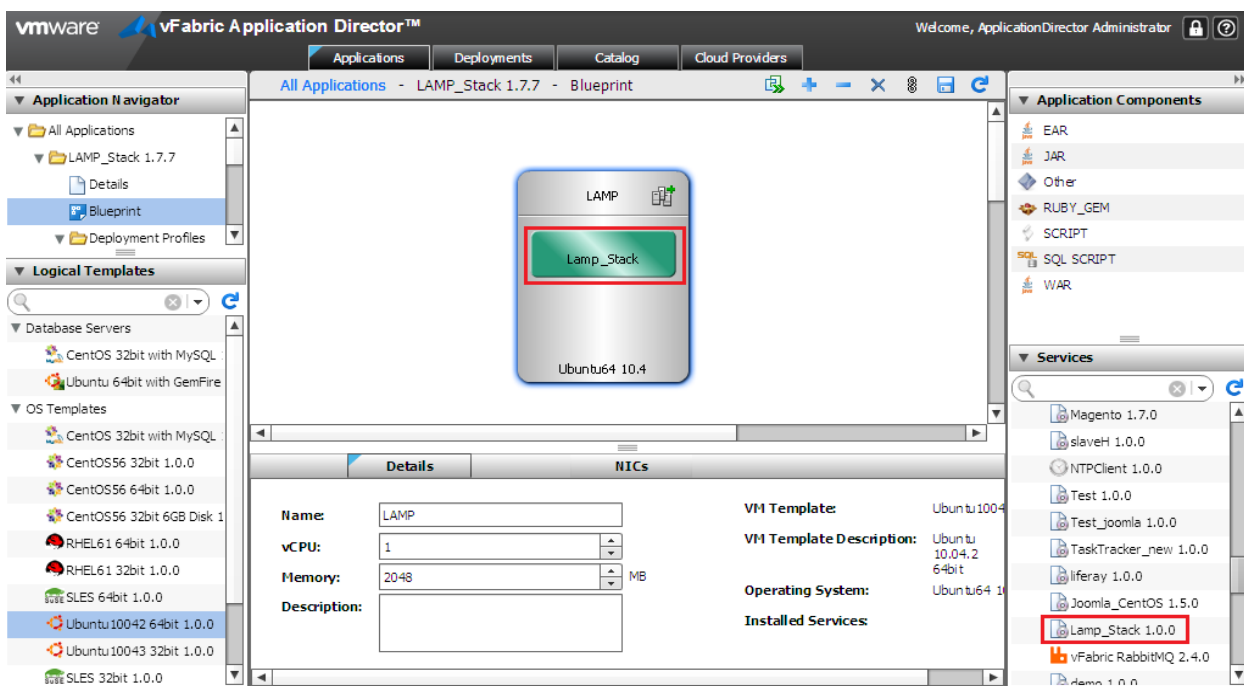


10. Save the application.

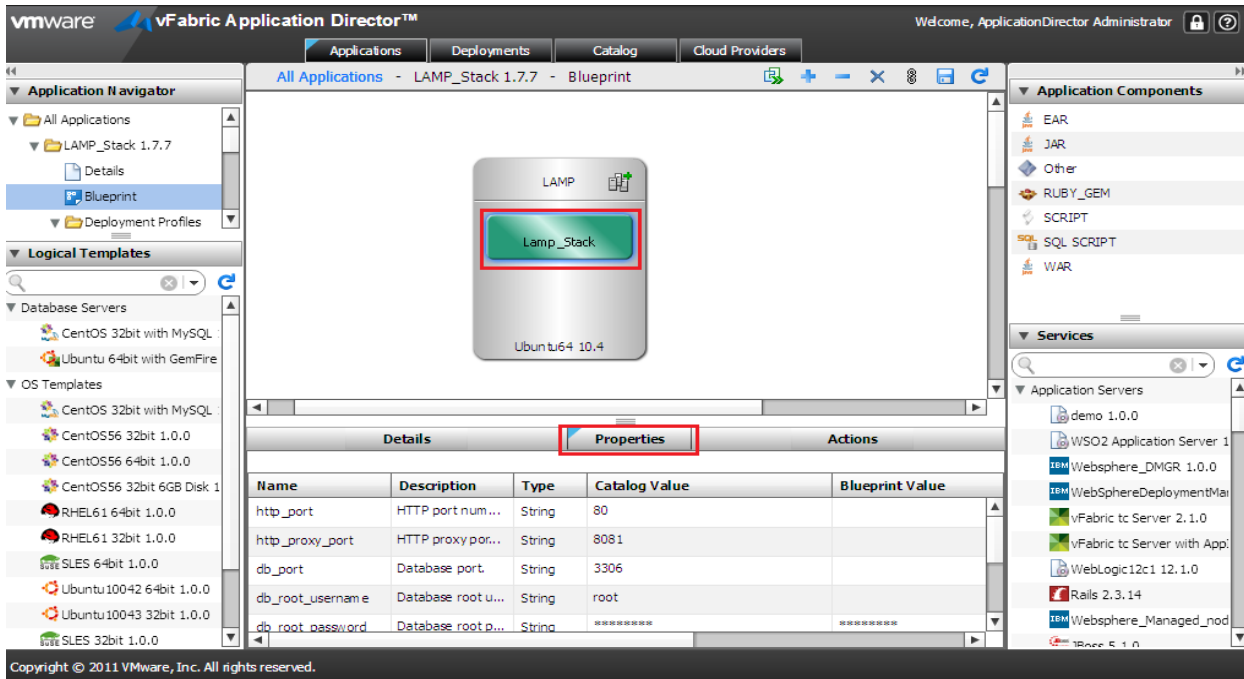


## Configuring

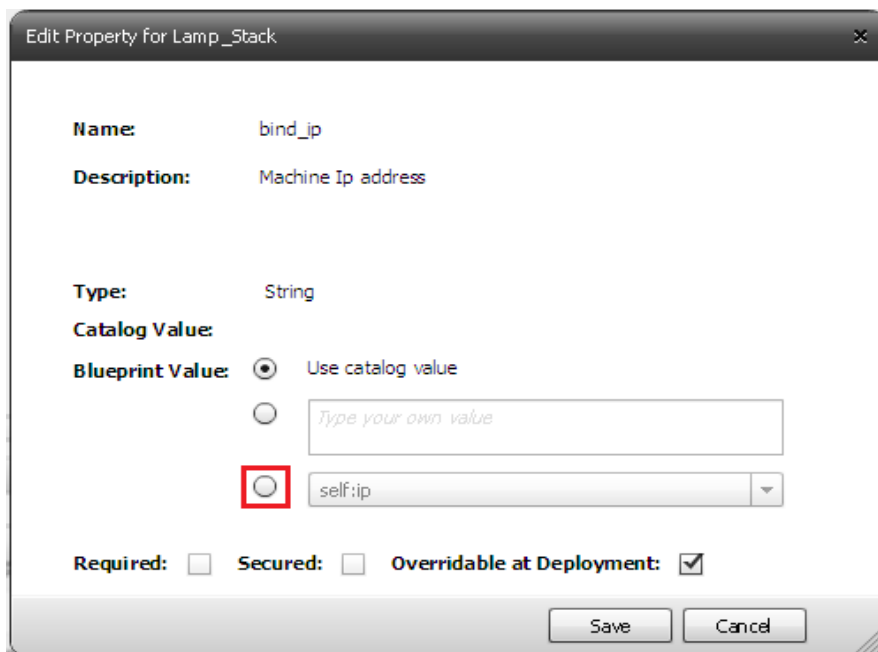
1. From the Services panel on the bottom right, drag and drop the service labeled LAMP\_Stack on the LAMP Node.



2. Click on the LAMP\_Stack service and go to **properties** tab in the lower pane.



3. 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.



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

Edit Property for Lamp\_Stack

**Name:** bind\_ip

**Description:** Machine Ip address

**Type:** String

**Catalog Value:**

**Blueprint Value:** ☐ Use catalog value  
☐ Type your own value  
☒ Bind to another property in this blueprint

**Required:** ☐ **Secure:** ☒

self:ip  
 self:NICO\_ip

Cancel

5. 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
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			

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

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

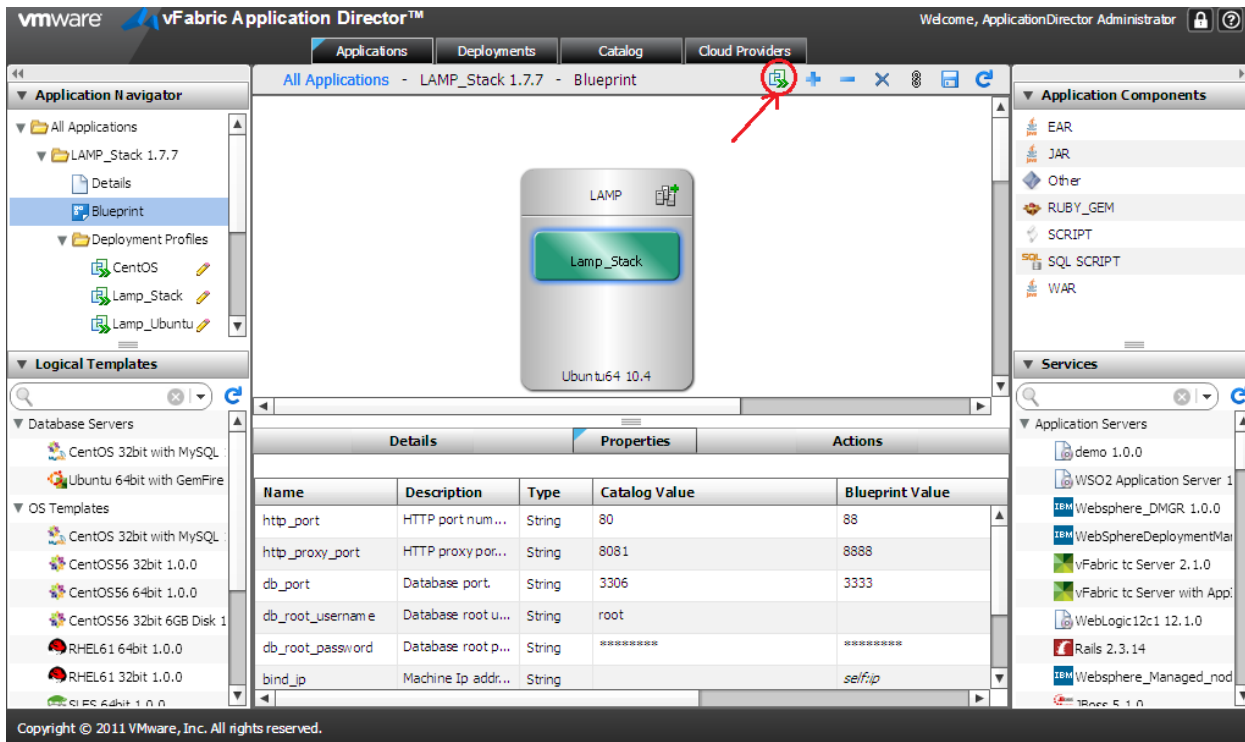
**Required:** ☐ **Secured:** ☐ **Overridable at Deployment:** ☒

6. Save the Blueprint.

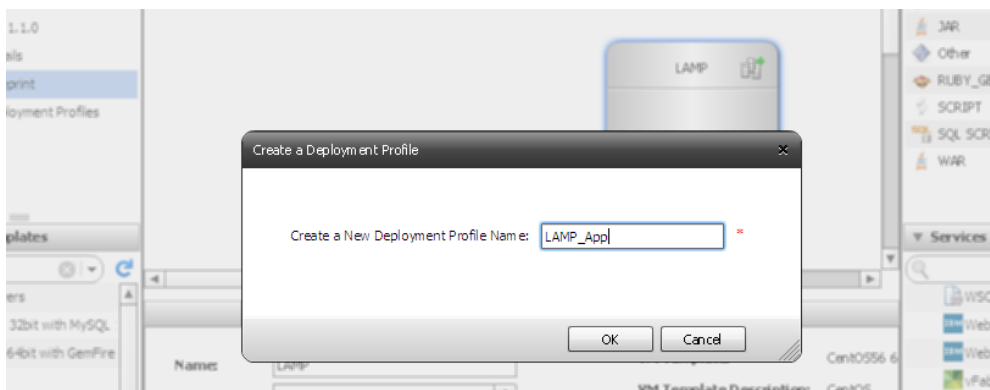


## Deploying the LAMP application

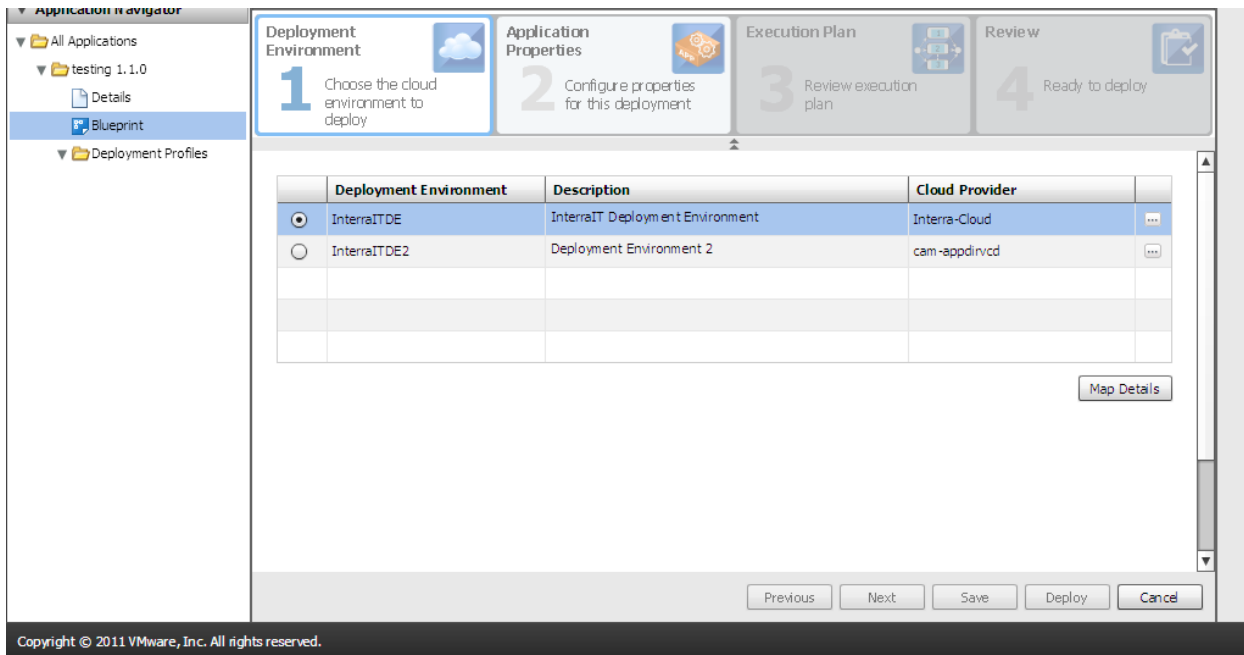
1. Login to the Application Director UI with the user which has the deployment rights.
2. Click on the LAMP Application in the Application List page.
3. Click on the Deploy Tab on the Blueprint page.



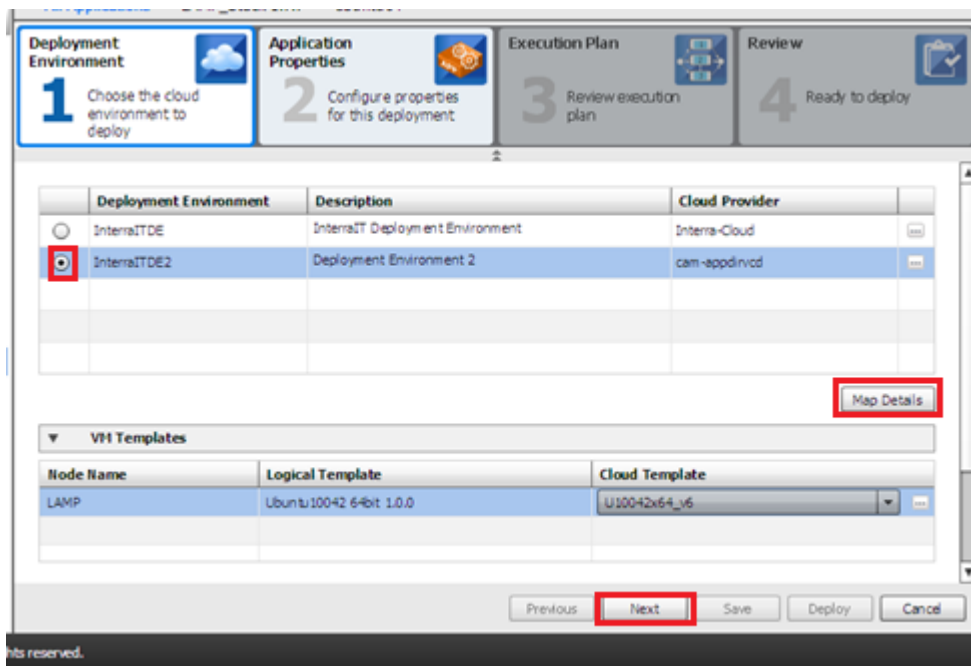
4. It will bring up the deployment profile window. Enter a deployment profile name for example LAMP\_App .Click **OK**



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**



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

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

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 stri...	<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.

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

LAMP

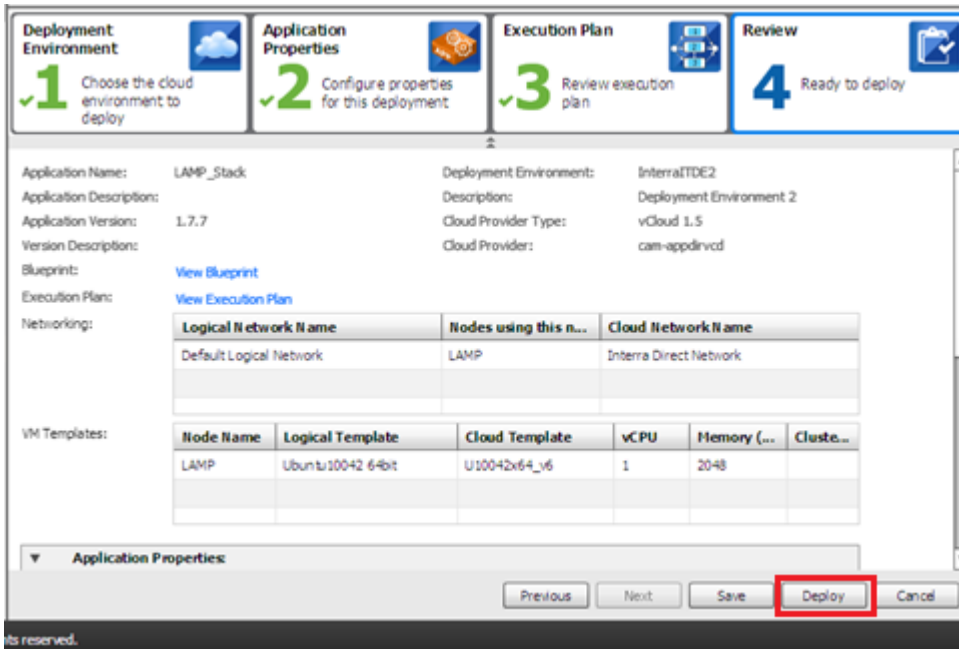
START Build

Lamp\_Stack-INSTALL  
Lamp\_Stack 1.0.0

Lamp\_Stack-CONFIGURE  
Lamp\_Stack 1.0.0

Lamp\_Stack-START  
Lamp\_Stack 1.0.0

Previous Next Save Deploy Cancel



**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: LAMP\_Stack  
 Application Description:  
 Application Version: 1.7.7  
 Version Description:  
 Blueprint: [View Blueprint](#)  
 Execution Plan: [View Execution Plan](#)

Deployment Environment: InterraTDE2  
 Description: Deployment Environment 2  
 Cloud Provider Type: vCloud 1.5  
 Cloud Provider: cam-appdirvcd

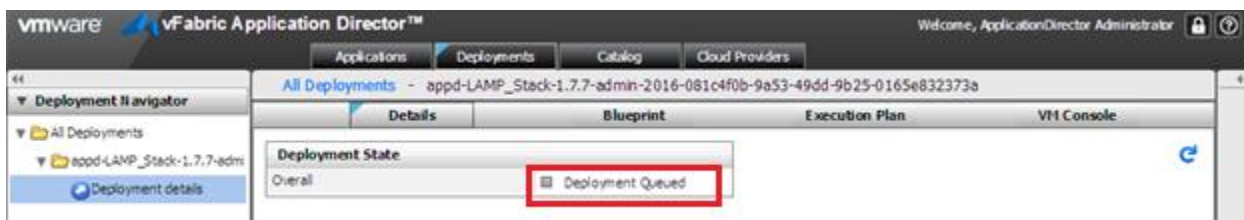
Logical Network Name	Nodes using this n...	Cloud Network Name
Default Logical Network	LAMP	Interra Direct Network

Node Name	Logical Template	Cloud Template	vCPU	Memory (...)	Cluste...
LAMP	Ubuntu10042 64-bit	U10042x64_v6	1	2048	

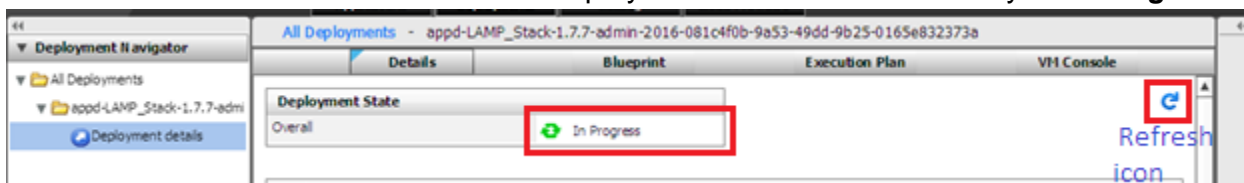
Application Properties:

Previous Next Save **Deploy** Cancel

9. 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.

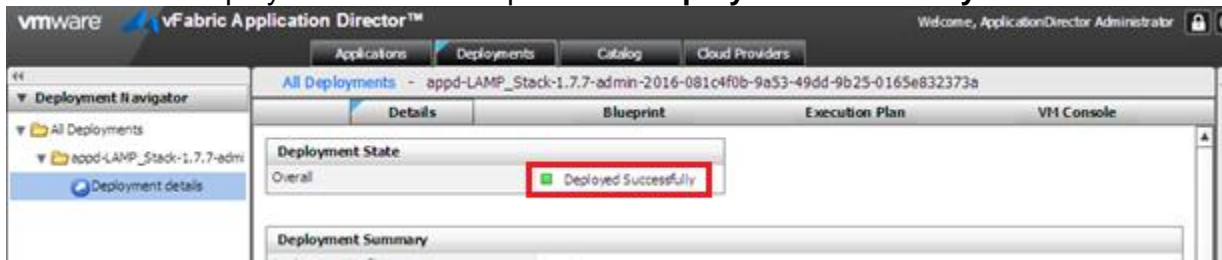


10. Click on the **refresh icon** and check the deployment status. Note that it says **"In Progress"**.

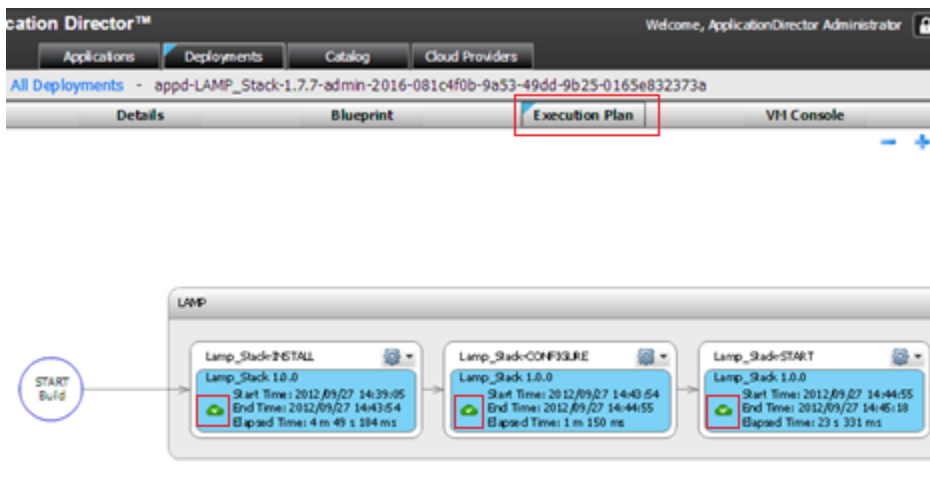


**Verify Smoke test passed**

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

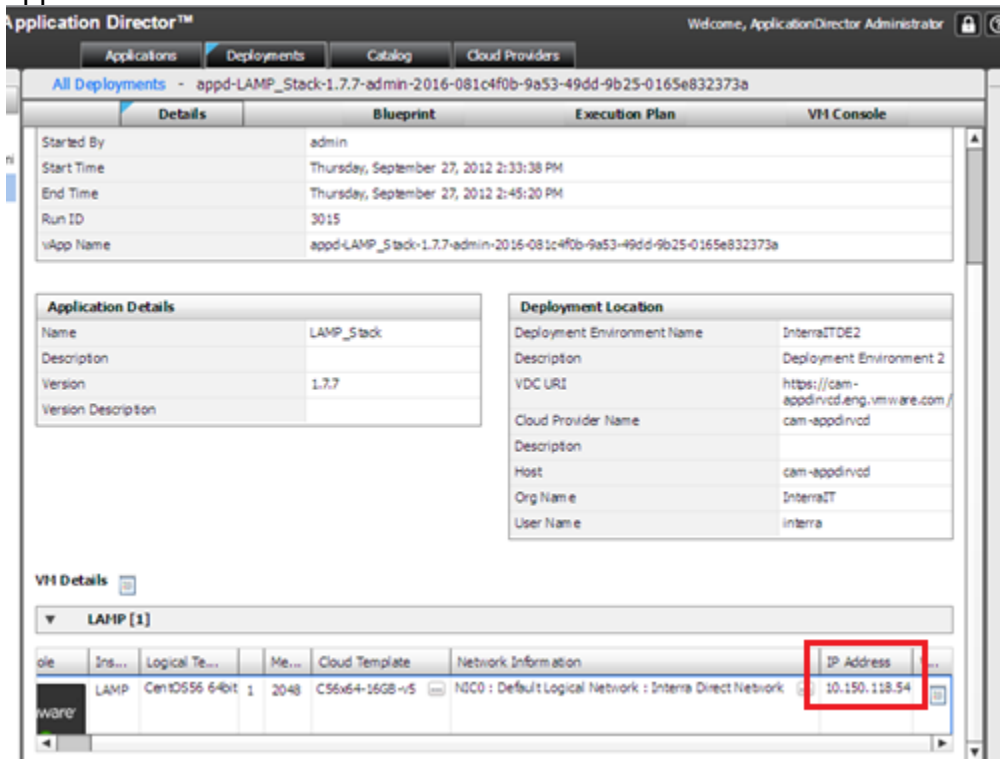


2. Click on the **Execution plan** to see **green** status marks on each task.



## Launching the Application

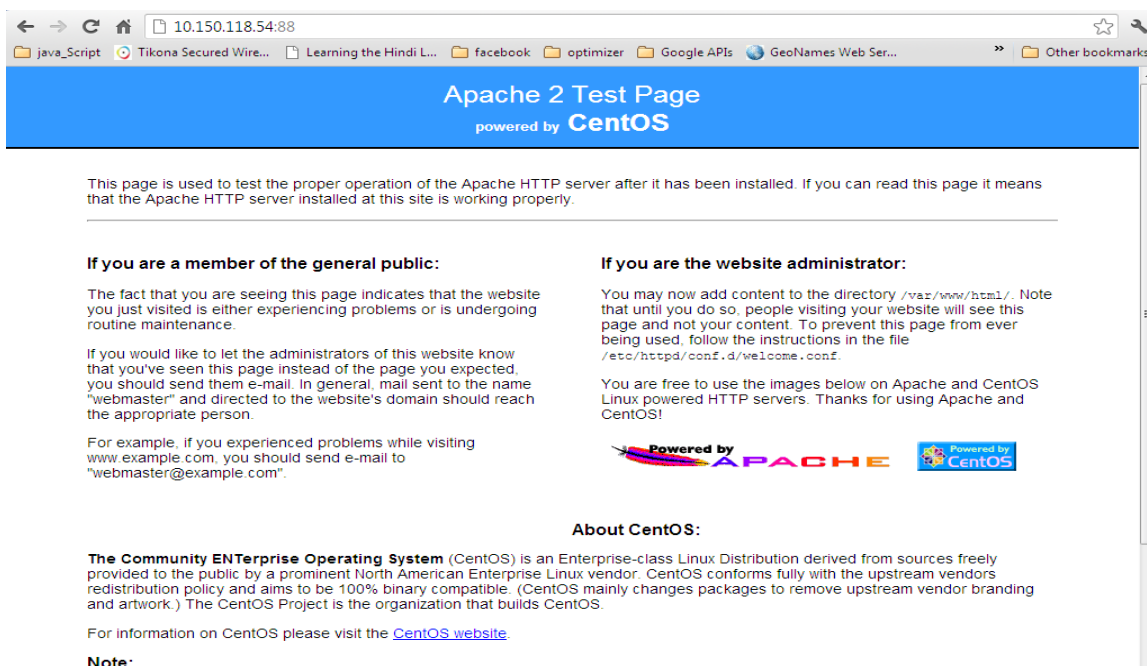
1. Click on the Details Page to get the IP of the machine. You will need this IP to launch the application.



The screenshot shows the 'Application Director' interface. The 'Details' tab is selected, displaying information for a deployment named 'appd-LAMP\_Stack-1.7.7-admin-2016-081c4f0b-9a53-49dd-9b25-0165e832373a'. The 'Application Details' section shows the name 'LAMP\_Stack', version '1.7.7', and a description. The 'Deployment Location' section shows the environment name 'InterraITDE2', VDC URI, cloud provider name, and host. The 'VM Details' section shows a table with columns for VM name, instance, logical template, memory, cloud template, and network information. The IP address '10.150.118.54' is highlighted in a red box.

VM Name	Instance	Logical Template	Memory	Cloud Template	Network Information	IP Address
LAMP	CentOS56 64bit	1	2048	C56x64-16GB-v5	NIC0 : Default Logical Network : Interra Direct Network	10.150.118.54

2. Open your Browser and type <http://10.150.118.54:88> to verify successful installation of Apache.



The screenshot shows a web browser displaying the 'Apache 2 Test Page' powered by CentOS. The page has a blue header with the title 'Apache 2 Test Page' and 'powered by CentOS'. The main content area is white and contains text about the Apache HTTP server. The browser's address bar shows the URL 'http://10.150.118.54:88'.

**Apache 2 Test Page**  
powered by CentOS

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page it means that the Apache HTTP server installed at this site is working properly.

**If you are a member of the general public:**

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems or is undergoing routine maintenance.



If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting [www.example.com](http://www.example.com), you should send e-mail to "webmaster@example.com".

**If you are the website administrator:**

You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

You are free to use the images below on Apache and CentOS Linux powered HTTP servers. Thanks for using Apache and CentOS!

**About CentOS:**

**The Community Enterprise Operating System** (CentOS) is an Enterprise-class Linux Distribution derived from sources freely provided to the public by a prominent North American Enterprise Linux vendor. CentOS conforms fully with the upstream vendors redistribution policy and aims to be 100% binary compatible. (CentOS mainly changes packages to remove upstream vendor branding and artwork.) The CentOS Project is the organization that builds CentOS.


For information on CentOS please visit the [CentOS website](http://www.centos.org).

**Note:**

### 3. Type [http://{lamp\\_ip:port}/phpinfo.php](http://{lamp_ip:port}/phpinfo.php) to verify successful installation of PHP

118.54:88/phpinfo.php

Wire... Learning the Hindi L... facebook optimizer Google APIs GeoNames Web Ser...

**PHP Version 5.3.17** 

<b>System</b>	Linux LAMP 2.6.18-238.el5 #1 SMP Thu Jan 13 15:51:15 EST 2011 x86_64
<b>Build Date</b>	Sep 13 2012 07:20:59
<b>Configure Command</b>	<pre> '/configure' '--build=x86_64-redhat-linux-gnu' '--host=x86_64-redhat-linux-gnu' '--target=x86_64-redhat-linux-gnu' '--program-prefix=' '--prefix=/usr' '--exec-prefix=/usr' '--bindir=/usr/bin' '--sbindir=/usr/sbin' '--sysconfdir=/etc' '--datadir=/usr/share' '--includedir=/usr/include' '--libdir=/usr/lib64' '--libexecdir=/usr/libexec' '--localstatedir=/var' '--sharedstatedir=/usr/com' '--mandir=/usr/share/man' '--infodir=/usr/share/info' '--cache-file=../config.cache' '--with-libdir=lib64' '--with-config-file-path=/etc' '--with-config-file-scan-dir=/etc/php.d' '--disable-debug' '--with-pic' '--disable-rpath' '--without-pear' '--with-bz2' '--with-exec-dir=/usr/bin' '--with-freetype-dir=/usr' '--with-png-dir=/usr' '--with-xpm-dir=/usr' '--enable-inline-optimization' '--with-t1lib=/usr' '--without-gd' '--with-gettext' '--with-gmp' '--with-iconv' '--with- </pre>