

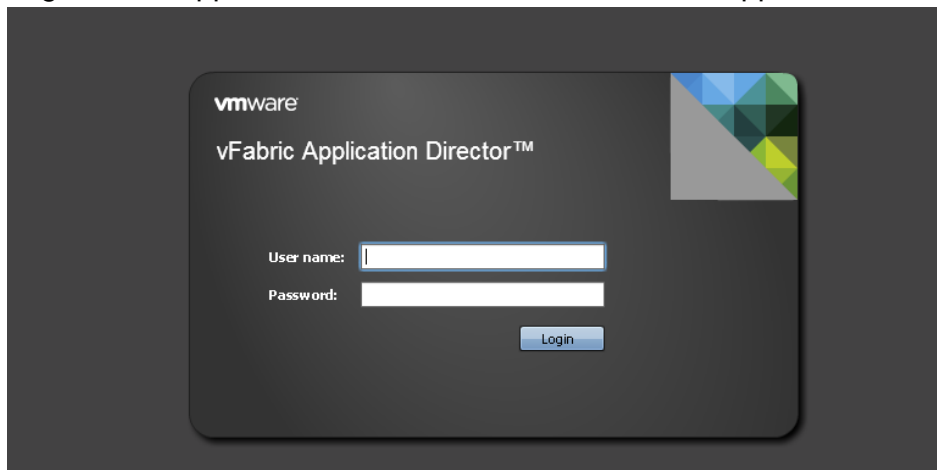
# Create IBM DB2 application

## Prerequisites

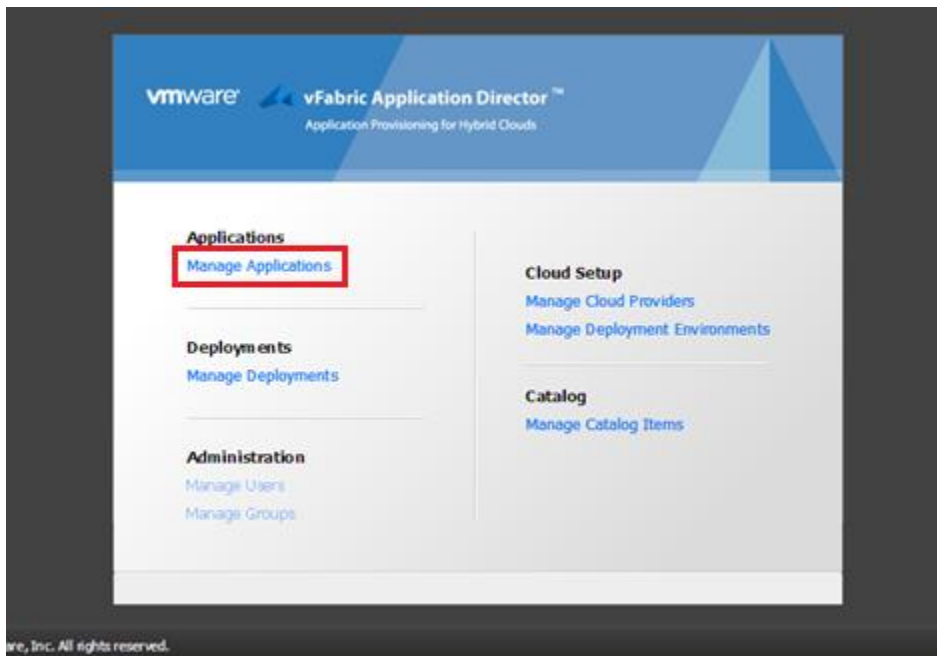
1. Install and configure VMware vFabric Application Director with vCloud Director.
2. Add DB2 as a service in the Application Director Catalog.


## 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.



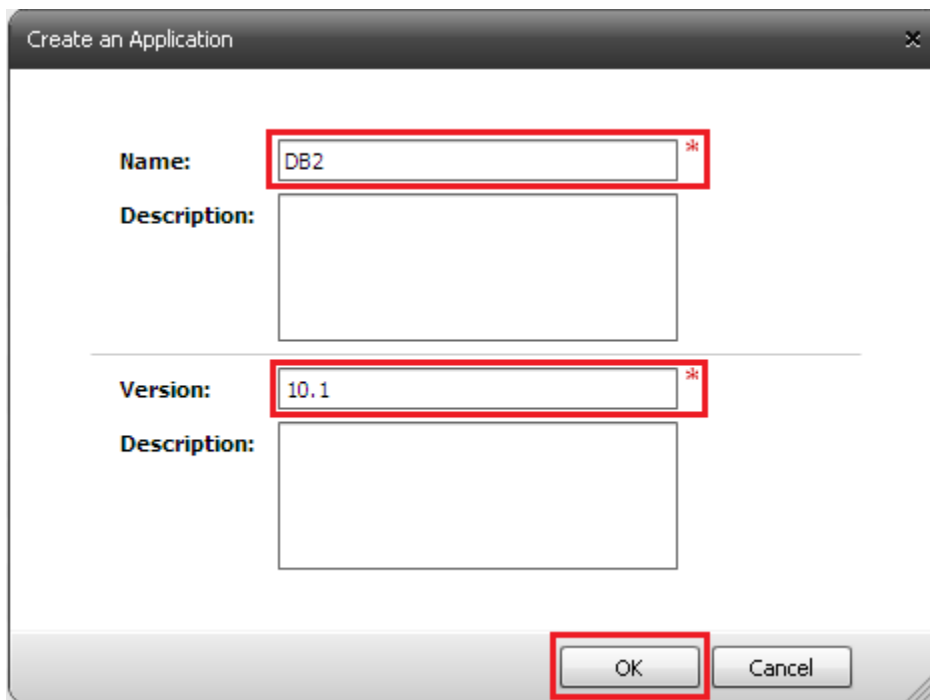
3. Click on  to add a new application.



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 several applications, with the first three rows visible. The first row is 'Alfresco' with version '1.0.0'. The second row is 'apache http server' with version '1.1.0'. The third row is 'Cloud\_Foundry\_QA' with version '1.0.0'. A red box highlights the 'Add' button (a green plus icon) in the top left corner of the application list.

Name	Description	Version	Description	Created ...	Created By	Last Up...	Last U
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: DB2  
Version: 1.7.7  
Click **OK**



The screenshot shows a 'Create an Application' dialog box. It has two sections for application details. The first section has a 'Name' field with the value 'DB2' and a 'Description' field. The second section has a 'Version' field with the value '10.1' and a 'Description' field. The 'Name' and 'Version' fields are highlighted with red boxes. At the bottom right, there are 'OK' and 'Cancel' buttons, with the 'OK' button highlighted by a red box.

**Create an Application**

**Name:** DB2

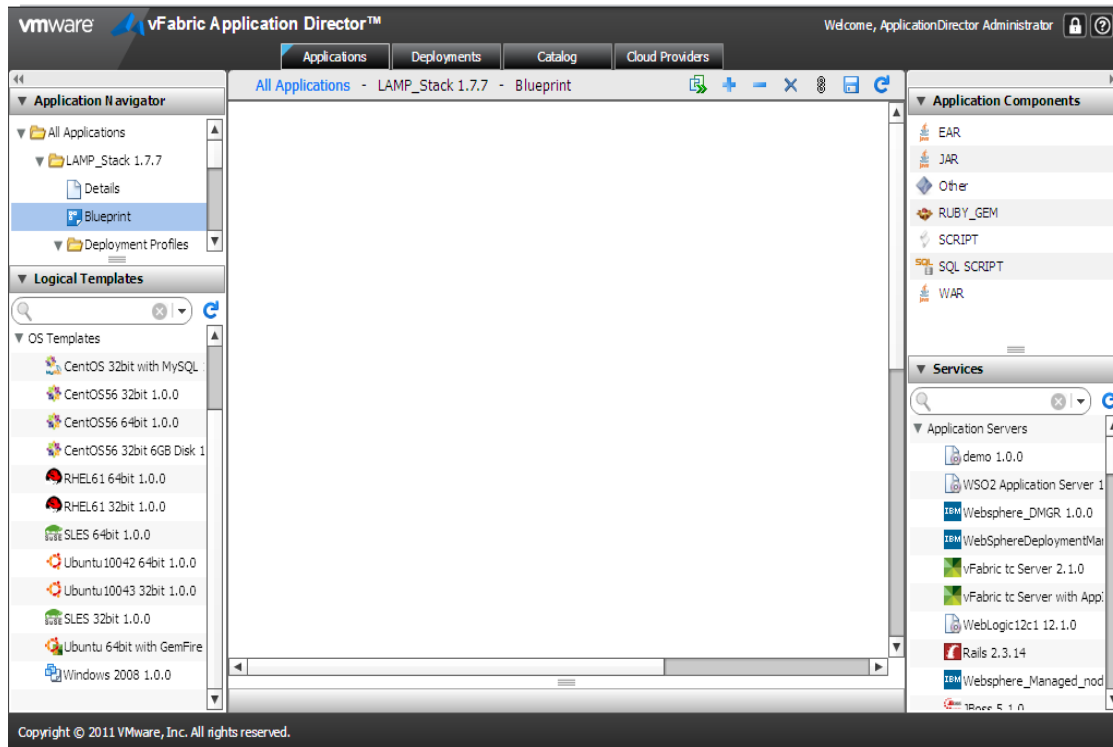
**Description:**

**Version:** 10.1

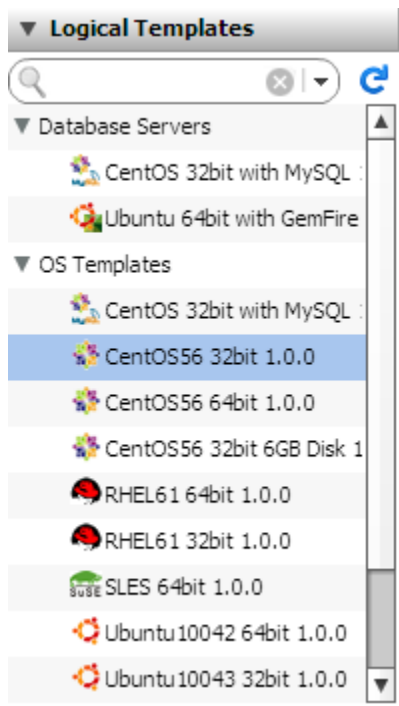
**Description:**

**OK** **Cancel**

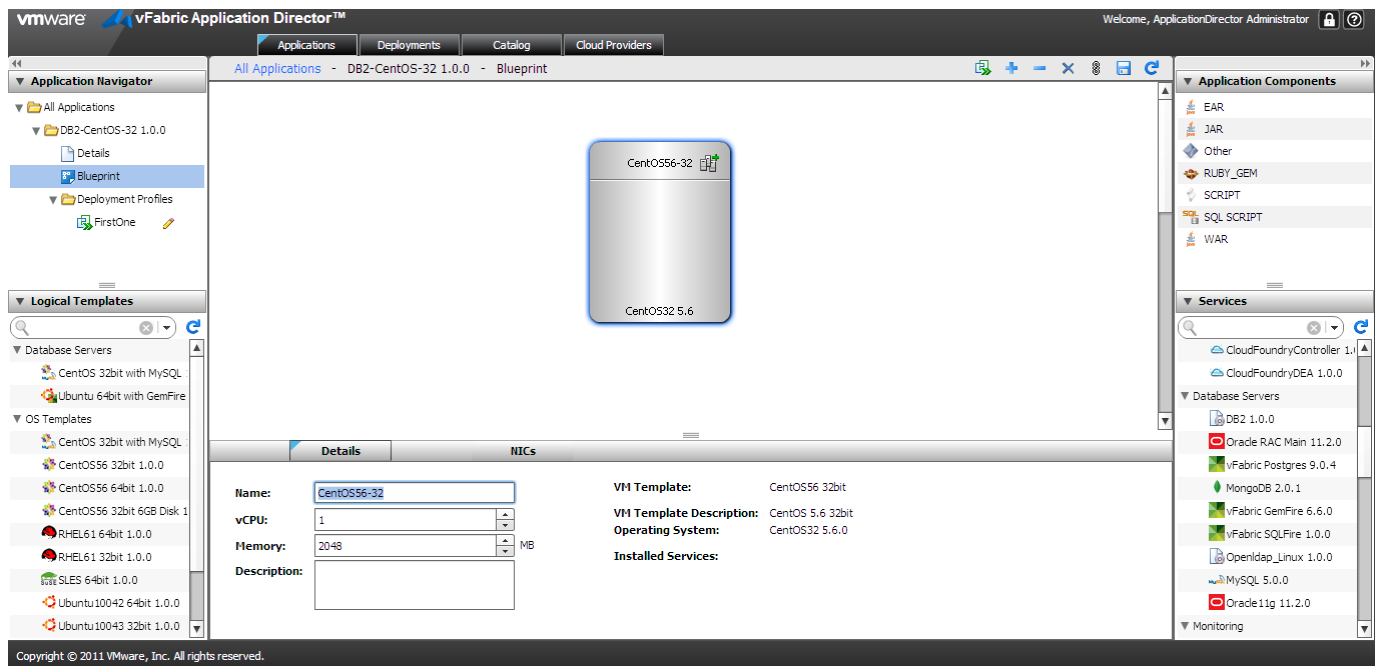
5. On successful application creation, the user will be re-directed to the blueprint editor page.



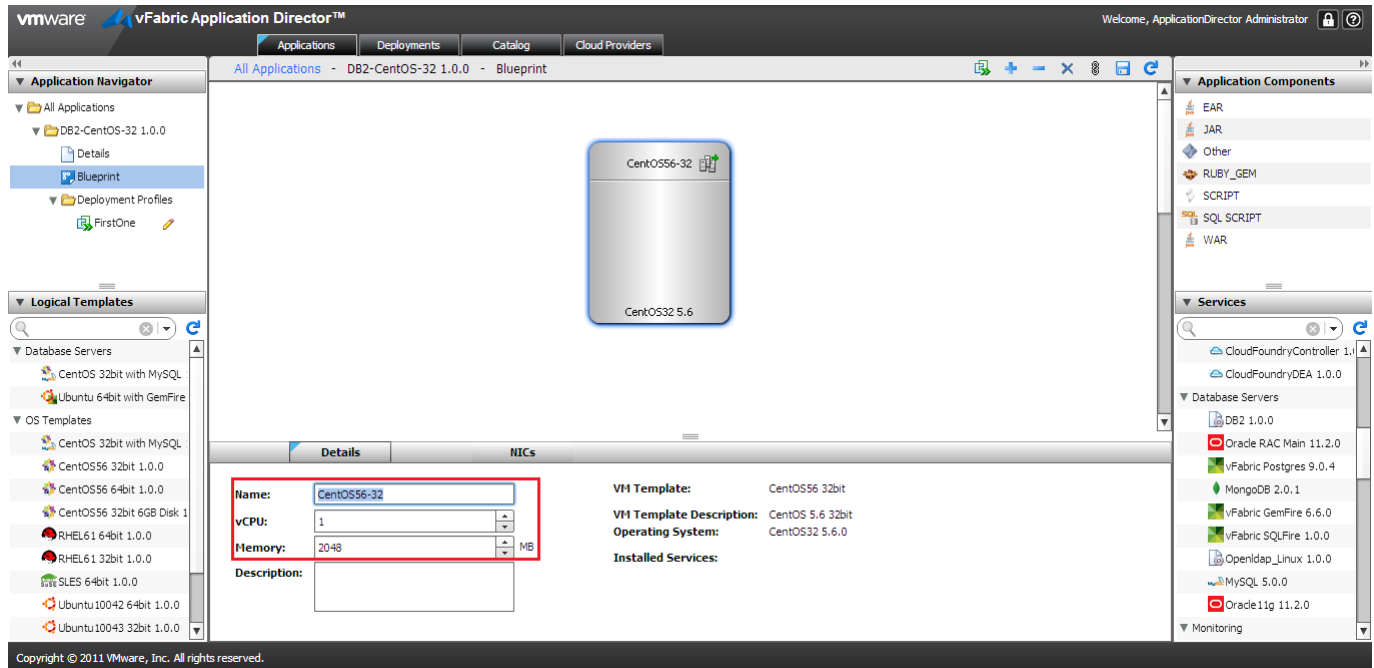
6. You will see **Logical Templates** on the bottom left.
7. Drag & drop any template of Linux flavor for example CentOS56-32bit 1.0.0 in the central white canvas area. This template needs to have been uploaded and registered in the cloud provider.



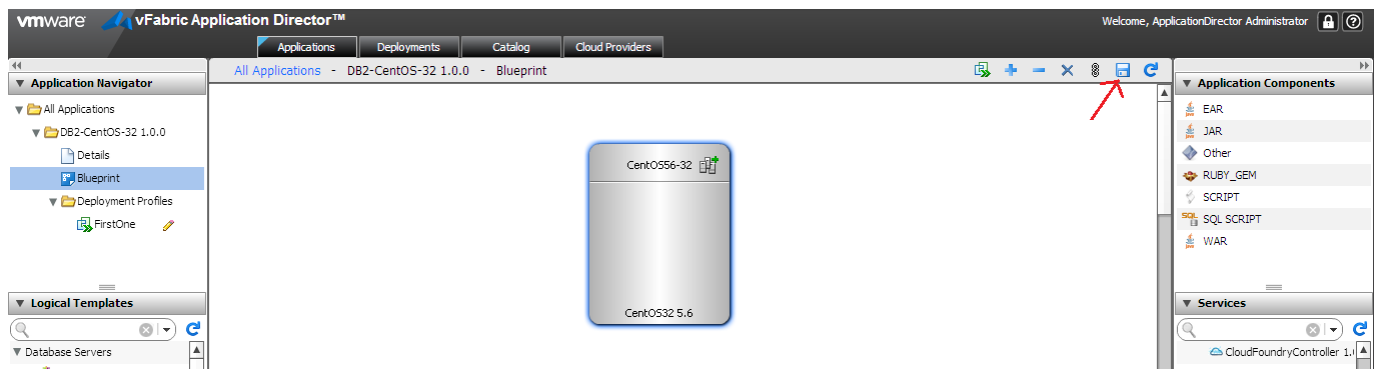
8. Now we will have a node in the canvas.



- Select the dragged node. In the **Details** pane, **CentOS56-32** 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.

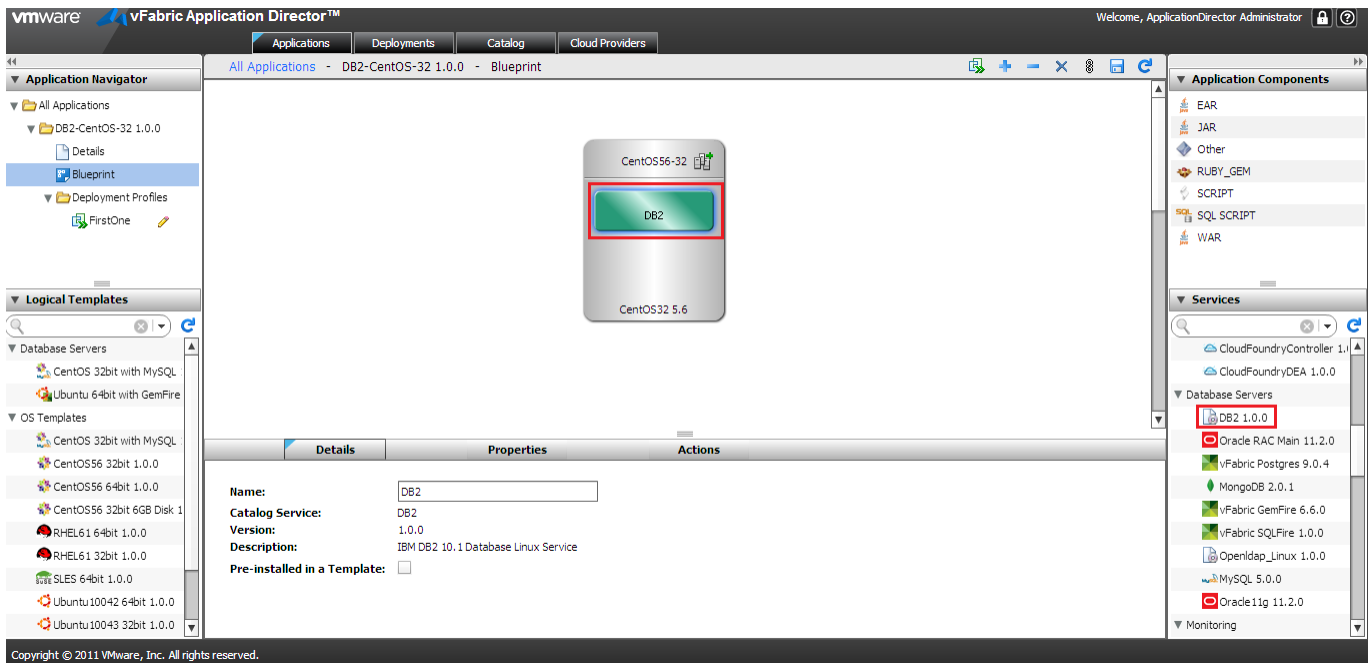


- Save the application.

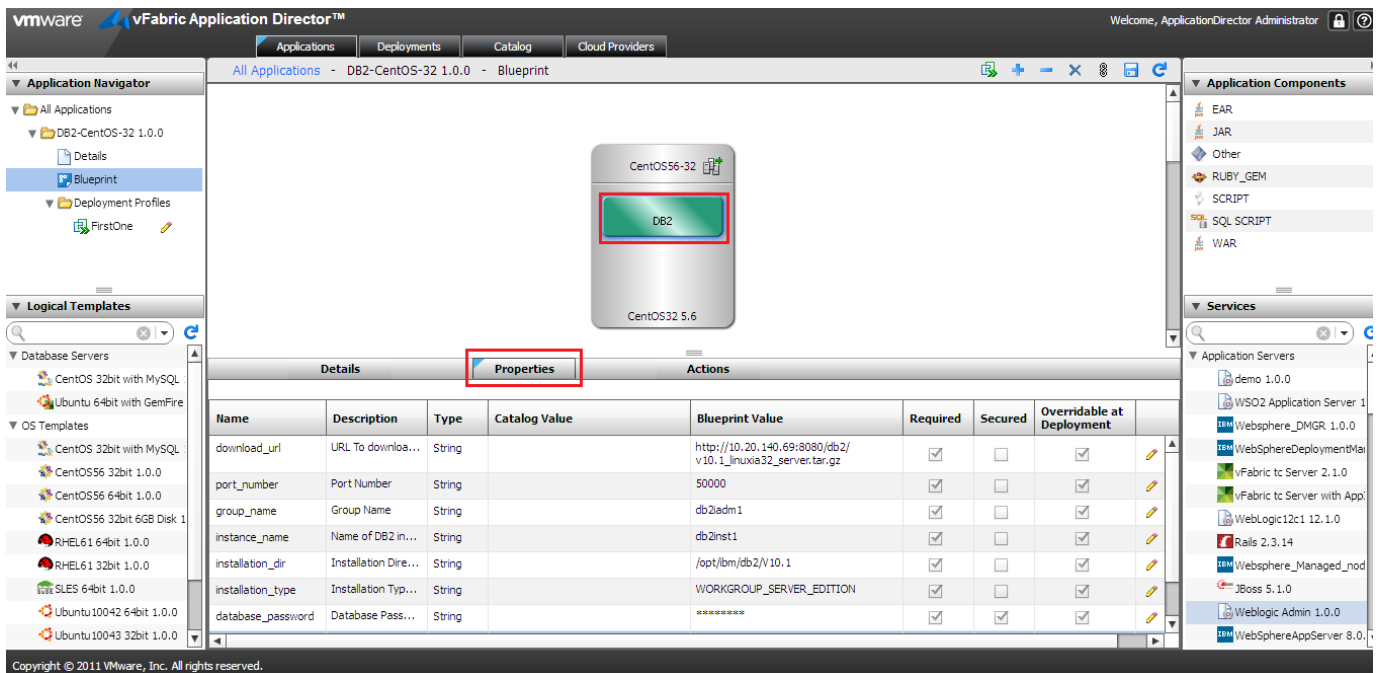


## Configuring

- From the Services panel on the bottom right, drag and drop the service labeled DB2 on the CentOS Node.



2. Click on the DB2 service and go to **properties** tab in the lower pane.



3. Scroll down until you see **database\_name** property. Double Click this value then click on the second radio button for changing database name.

Edit Property for DB2

**Name:** database\_name

**Description:** Name of the database to be created

**Type:** String

**Catalog Value:**

**Blueprint Value:** ☐ Use catalog value

☒ mydb

☐ Bind to another property in this blueprint

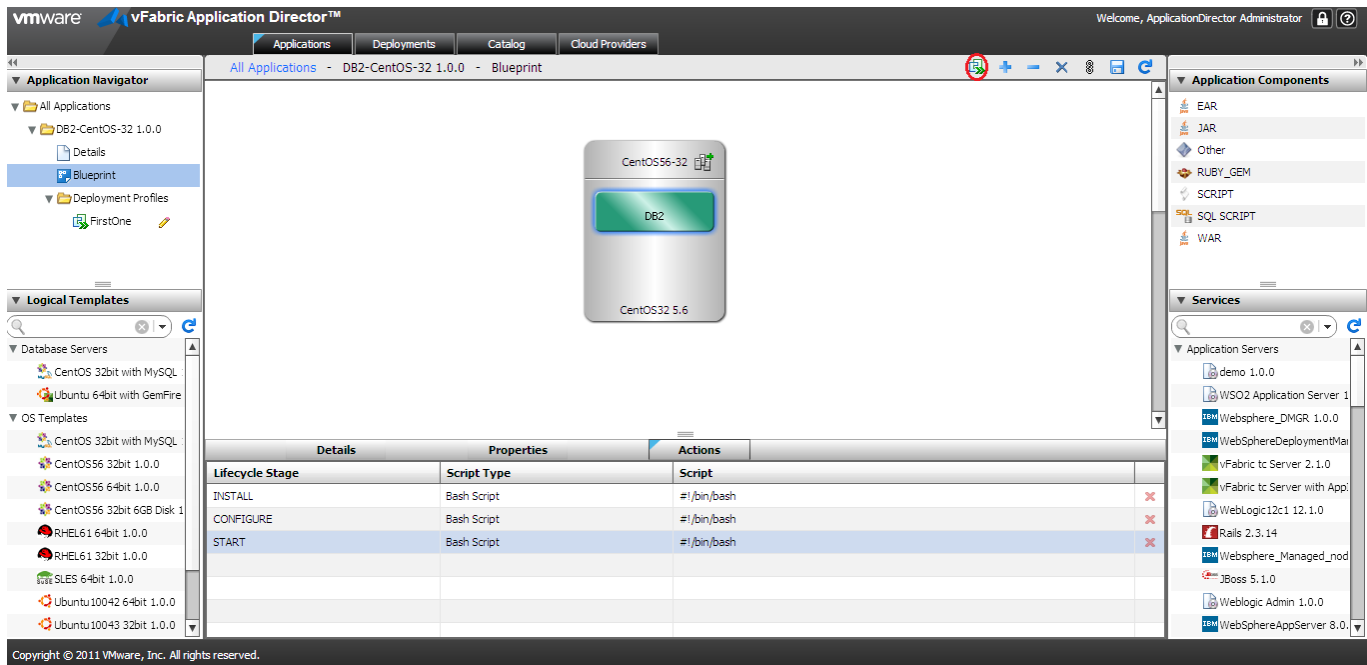
**Required:** ☒ **Secured:** ☐ **Overridable at Deployment:** ☒

Save Cancel

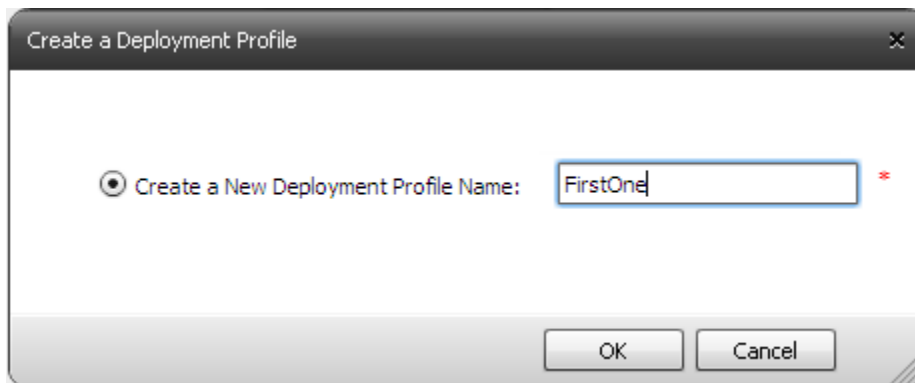
4. Save the Blueprint.

## Deploying the DB2 application

1. Login to the Application Director UI with the user which has the deployment rights.
2. Click on the DB2 Application in the Application List page.
3. Click on the Deploy Tab on the Blueprint page.

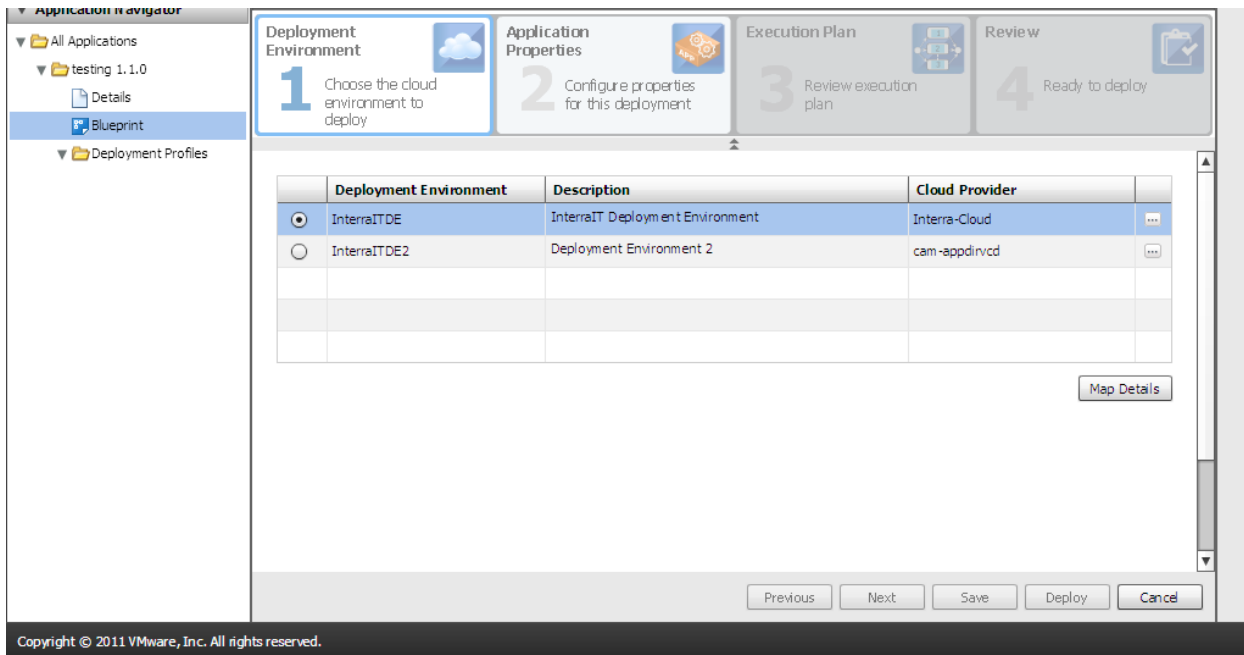


4. It will bring up the deployment profile window. Enter a deployment profile name for example FirstOne .Click **OK**



5. This will bring up the deploy wizard.





**Application Navigator**

- All Applications
  - testing 1.1.0
    - Details
    - Blueprint
- Deployment Profiles

**Deployment Environment** 1 Choose the cloud environment to deploy

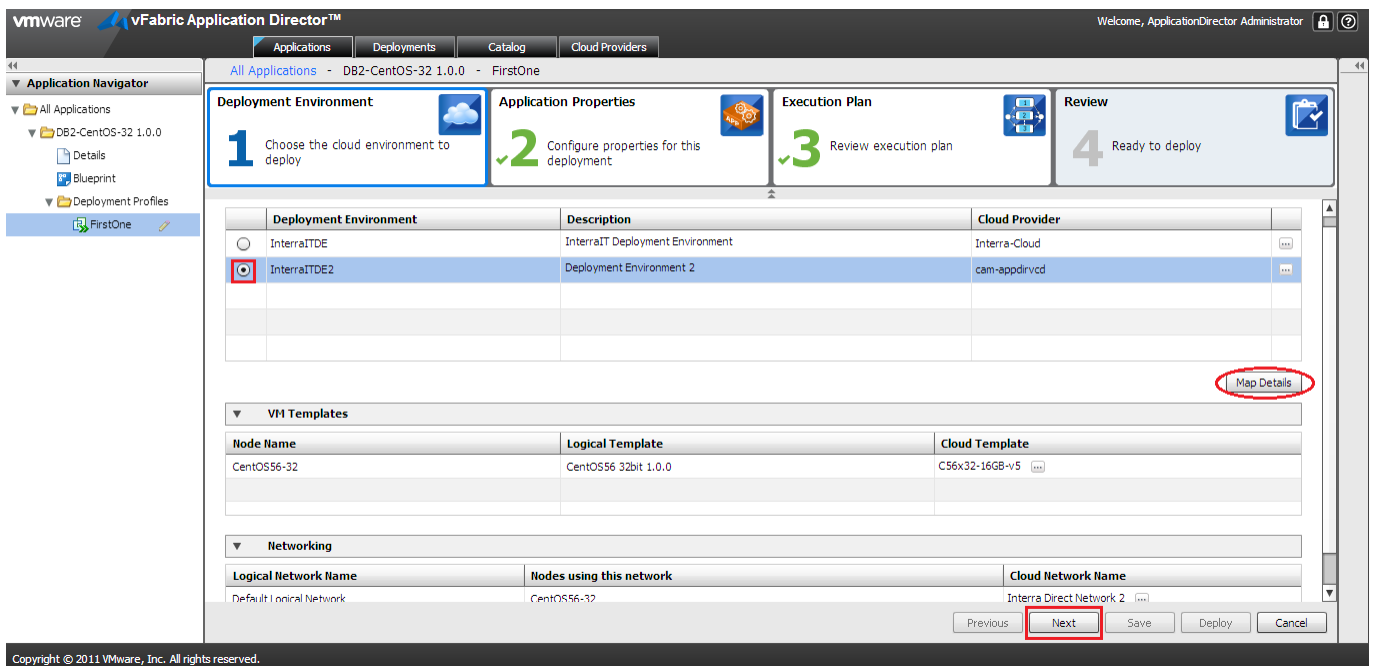
Deployment Environment	Description	Cloud Provider
<input checked="" type="radio"/> InterraITDE	InterraIT Deployment Environment	Interra-Cloud
<input type="radio"/> InterraITDE2	Deployment Environment 2	cam-appdirvcd

Map Details

Previous Next Save Deploy Cancel

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



**vmware vFabric Application Director™**

Welcome, ApplicationDirector Administrator

**Application Navigator**

- All Applications
  - DB2-CentOS-32 1.0.0
    - Details
    - Blueprint
  - Deployment Profiles
    - FirstOne

**Deployment Environment** 1 Choose the cloud environment 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
CentOS56-32	CentOS56 32bit 1.0.0	C56x32-16GB-v5

**Networking**

Logical Network Name	Nodes using this network	Cloud Network Name
Default Logical Network	CentOS56-32	Interra Direct Network 2

Previous **Next** Save Deploy Cancel

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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

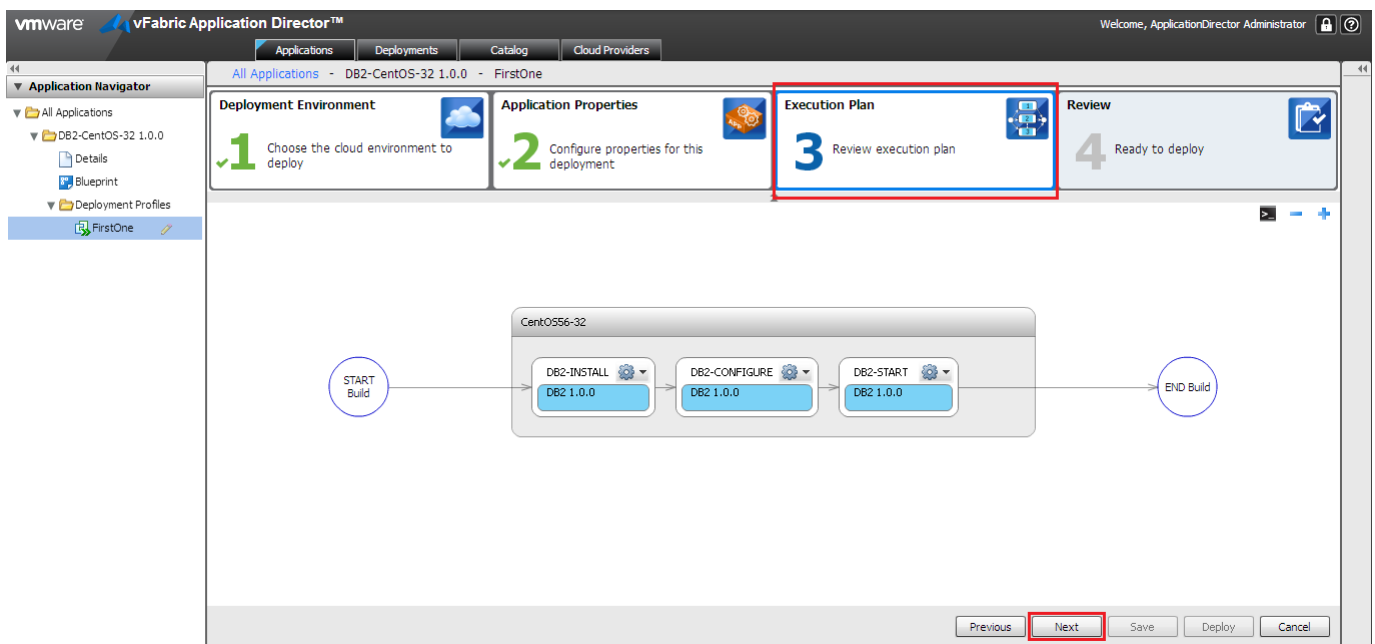
**Review**  
4 Ready to deploy

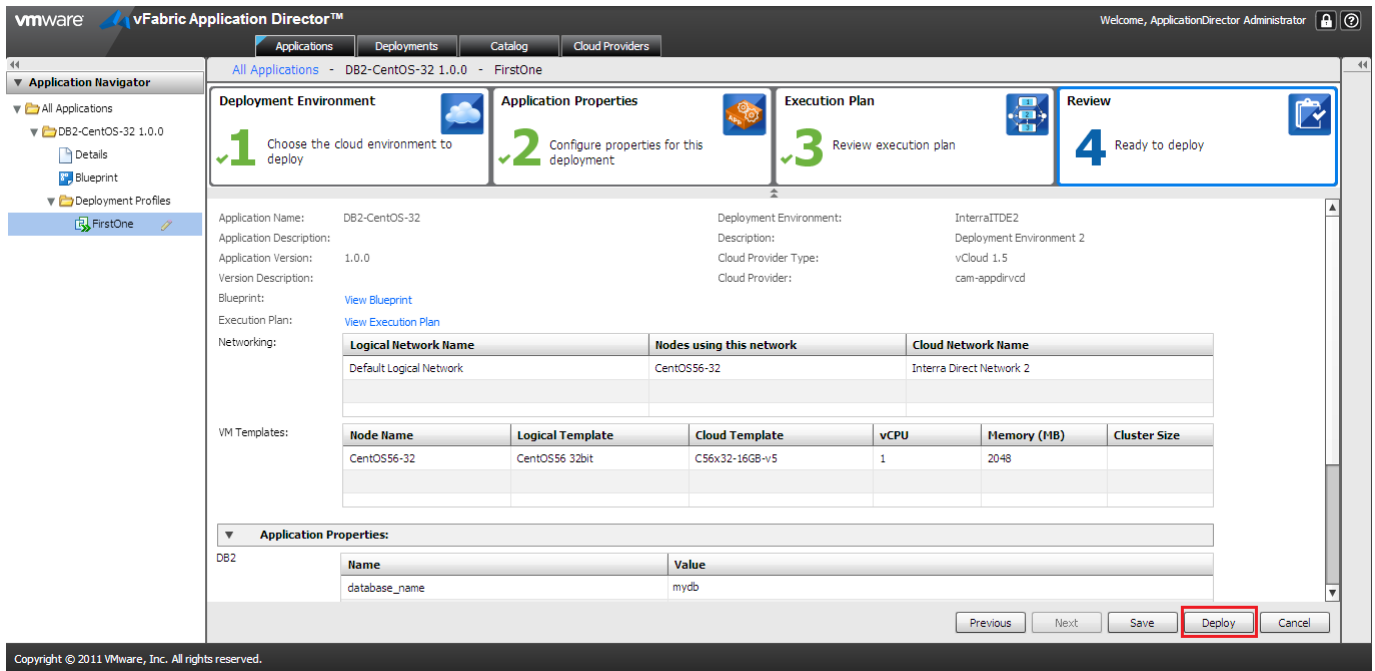
Properties: Service DB2

Property Name	Type	Description	Required	Blueprint Value	New Value
database_name	String	Name of the database to be created	✓	mydb	Use blueprint value.
database_password	String	Database Password	✓	*****	Use blueprint value.
database_username	String	Database Username	✓	virender	Use blueprint value.
download_url	String	URL To download the DB2 tar ball	✓	http://10.20.140.69:8080/db2/v10.1_linuxia32_server.tar.gz	Use blueprint value.
group_name	String	Group Name	✓	db2adm1	Use blueprint value.
installation_dir	String	Installation Directory	✓	/opt/bm/db2/V10.1	Use blueprint value.
installation_type	String	Installation Type. E.g WORKGROUP_SERVER_...	✓	WORKGROUP_SERVER_EDITION	Use blueprint value.
instance_name	String	Name of DB2 instance. E.g. db2inst1	✓	db2inst1	Use blueprint value.
port_number	String	Port Number	✓	50000	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.

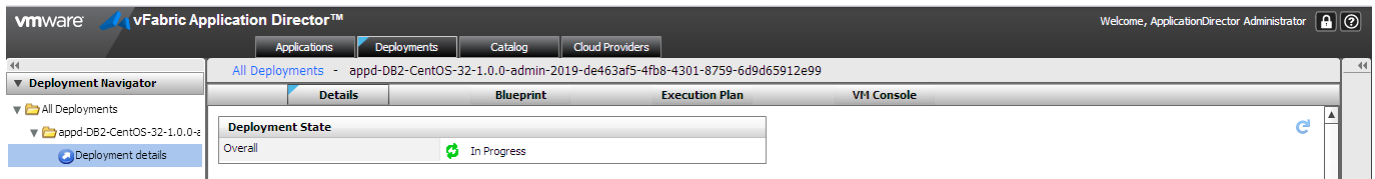




- Wait for deployment details screen to come up. This will take a minute or so. At this time, the system is preparing to initiate the deployment.

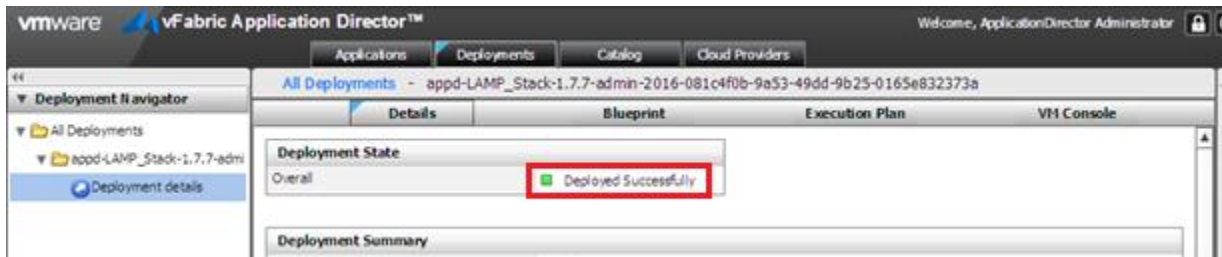


- Click on the **refresh icon** and check the deployment status. Note that it says **"In Progress"**.

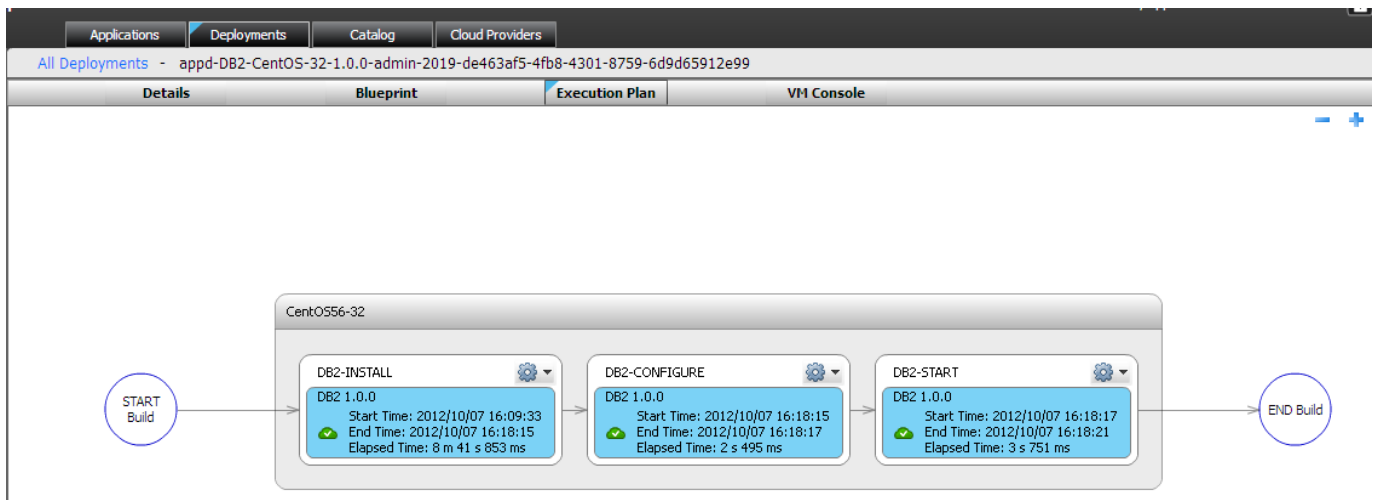


## Verify Smoke test passed

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

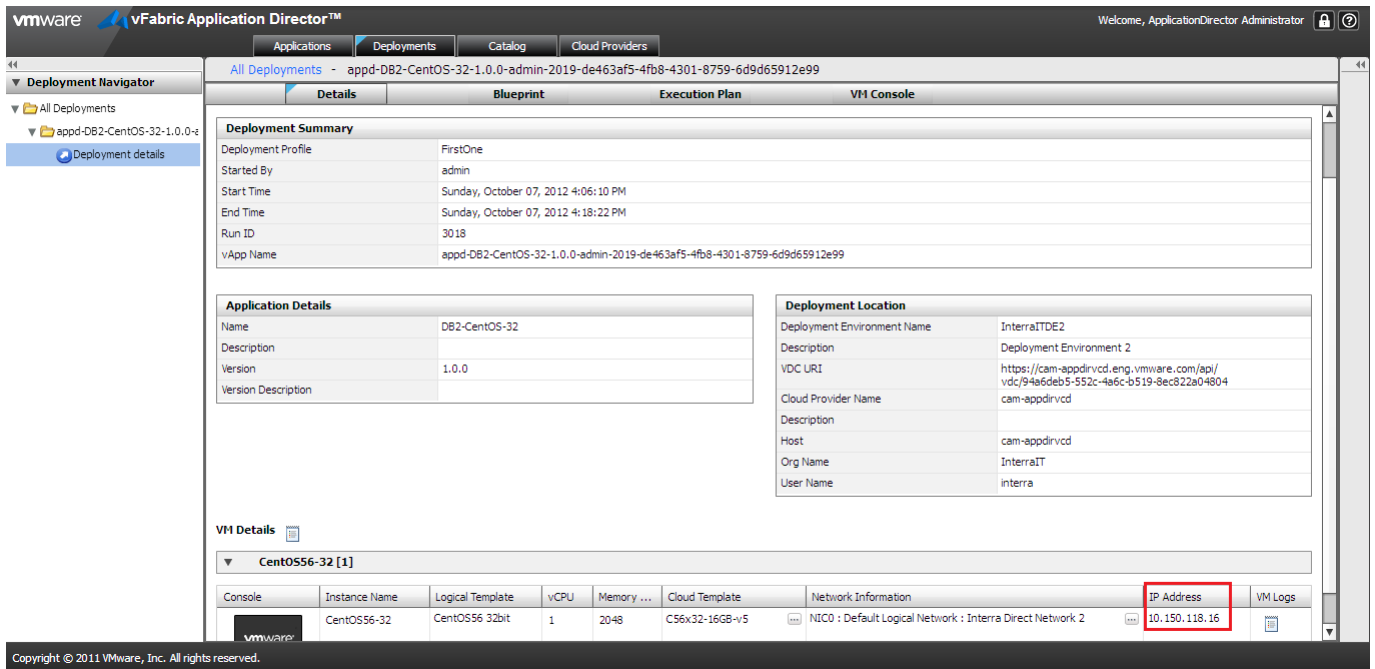


2. Click on the **Execution plan** to see **green** status marks on each task.



## 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 VMware vFabric Application Director interface. The left sidebar contains a 'Deployment Navigator' with a tree view showing 'All Deployments' and a sub-entry 'appd-DB2-CentOS-32-1.0.0-admin-2019-de463af5-4fb8-4301-8759-6d9d65912e99'. The main panel is titled 'Details' and contains several sections:

- Deployment Summary:**

Deployment Profile	FirstOne
Started By	admin
Start Time	Sunday, October 07, 2012 4:06:10 PM
End Time	Sunday, October 07, 2012 4:18:22 PM
Run ID	3018
vApp Name	appd-DB2-CentOS-32-1.0.0-admin-2019-de463af5-4fb8-4301-8759-6d9d65912e99
- Application Details:**

Name	DB2-CentOS-32
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/api/vdc/946ddeb5-552c-4a6c-b519-8ec822a04804
Cloud Provider Name	cam-appdirvcd
Description	
Host	cam-appdirvcd
Org Name	InterraIT
User Name	interra
- VM Details:**

Console	Instance Name	Logical Template	vCPU	Memory	Cloud Template	Network Information	IP Address	VM Logs
	CentOS56-32	CentOS56 32bit	1	2048	C56x32-16GB-v5	NIC0 : Default Logical Network : Interra Direct Network 2	10.150.118.16	

The IP Address '10.150.118.16' is highlighted with a red box in the VM Details table.

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2. Create JDBC connection to access the DB. URL to be used:

String url = "jdbc:db2://<db\_machine\_ip>:50000/<db\_name>";