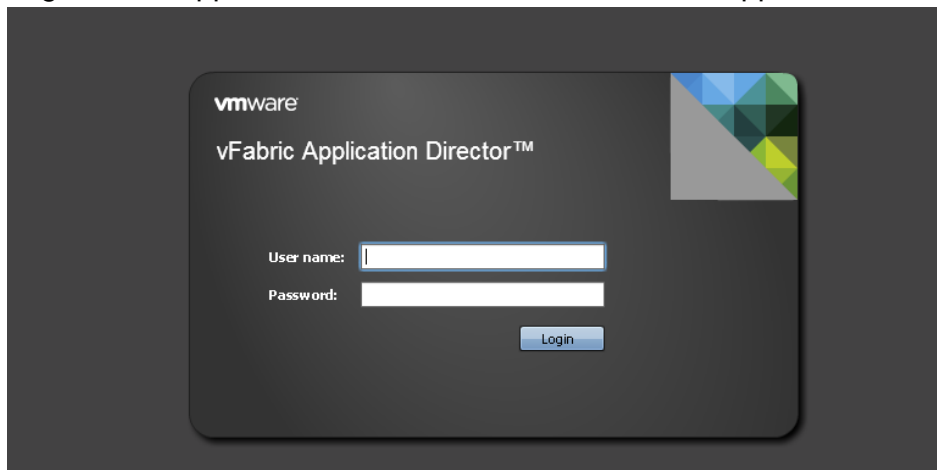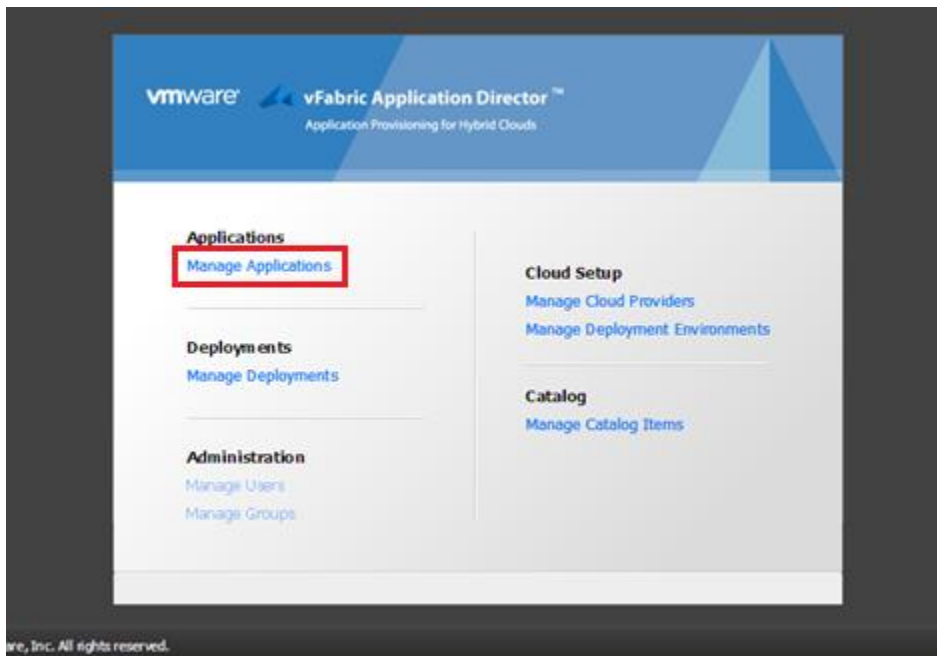# Create IBM DB2 application

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.

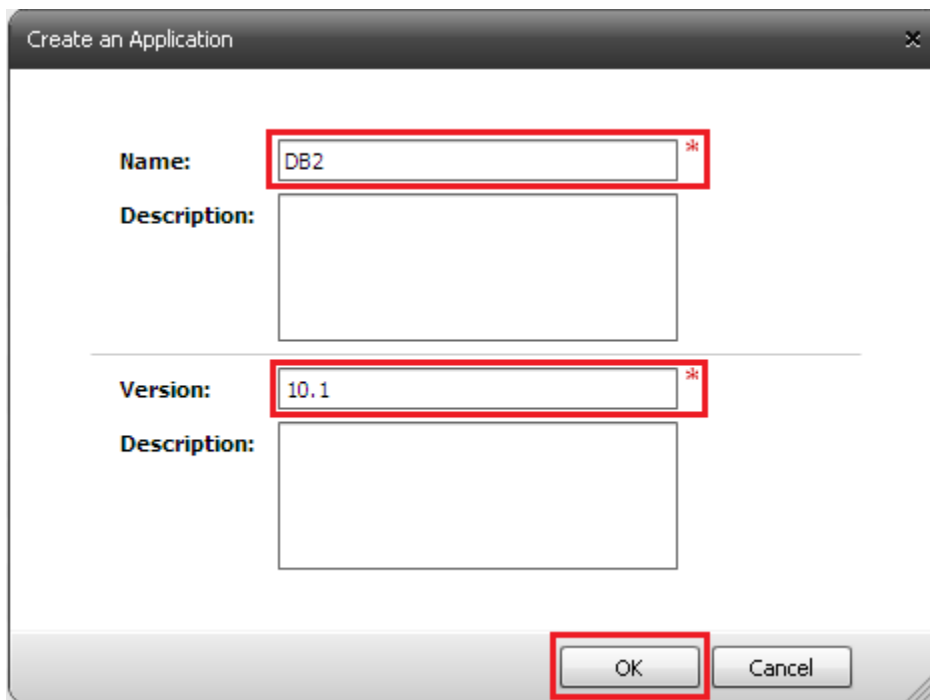2. Click on **Manage Applications.** This will take you to the list view of all applications.

3. Click on ![plus icon] to add a new application.

4. Provide the following required details
   Name: DB2
   Version: 1.7.7
   Click **OK**
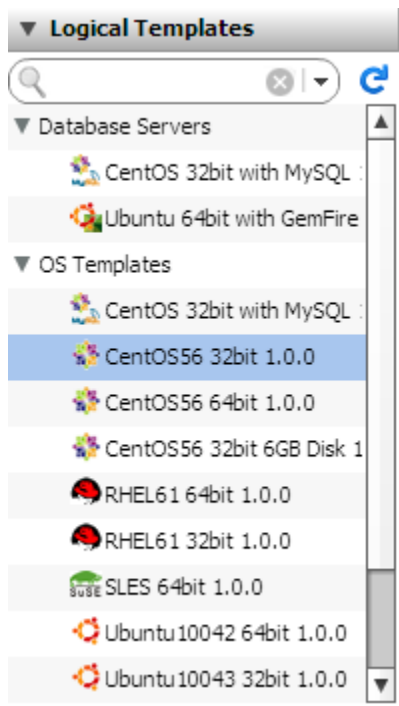

5. On successful application creation, the user will be re-directed to the blueprint editor page.
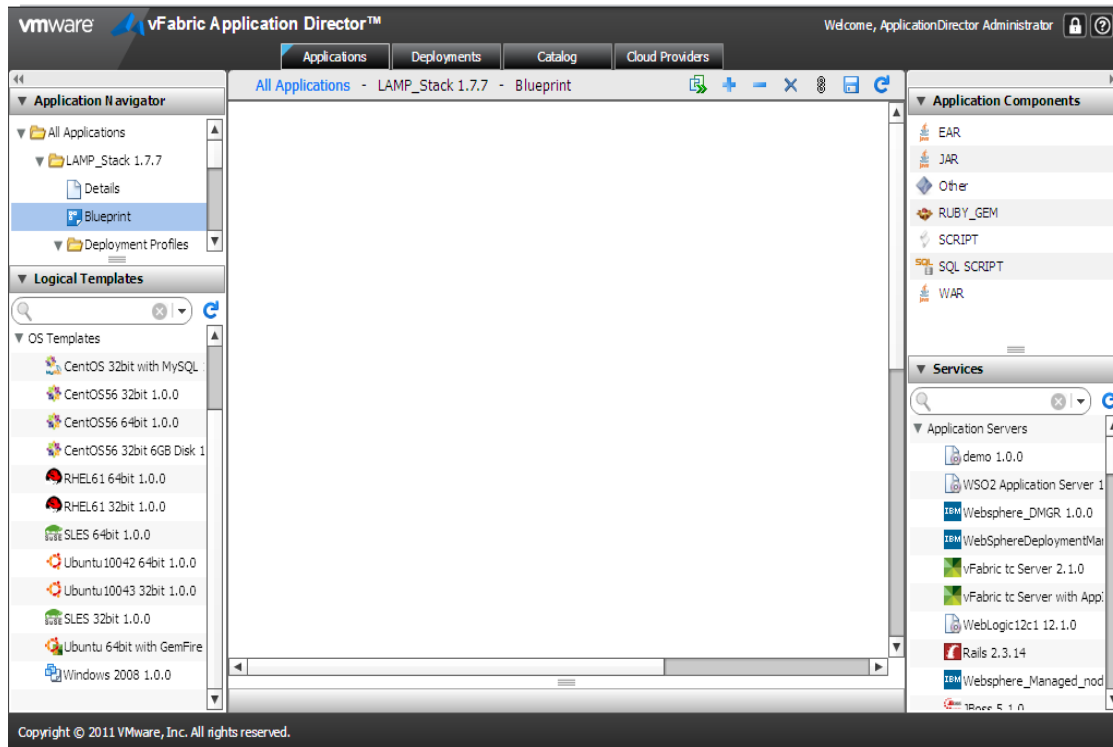
6. You will see **Logical Templates** on the bottom left.
7. Drag & drop any template of Linux flavor for example CentOS56-32bit 1.0.0 in the central white canvas area. This template needs to have been uploaded and registered in the cloud provider.
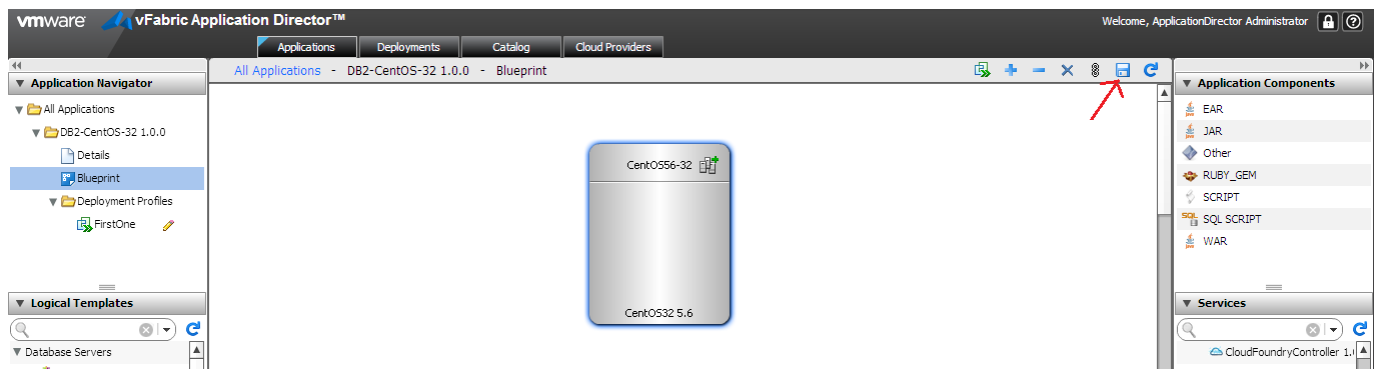
8. Now we will have a node in the canvas.
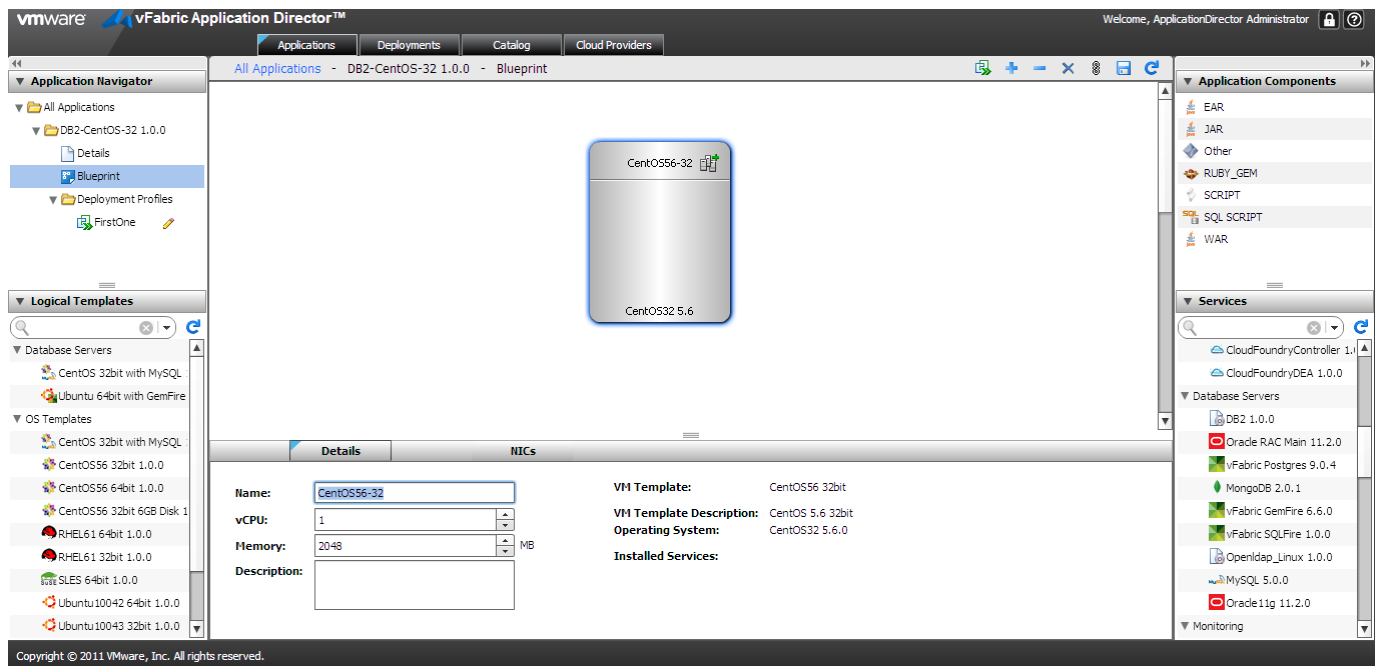
9. Select the dragged node. In the **Details** pane, **CentOS56-32** in the name field, this will be the hostname for this node. Keep the vCPU and Memory to their default values which is **1**and **2048** respectively.
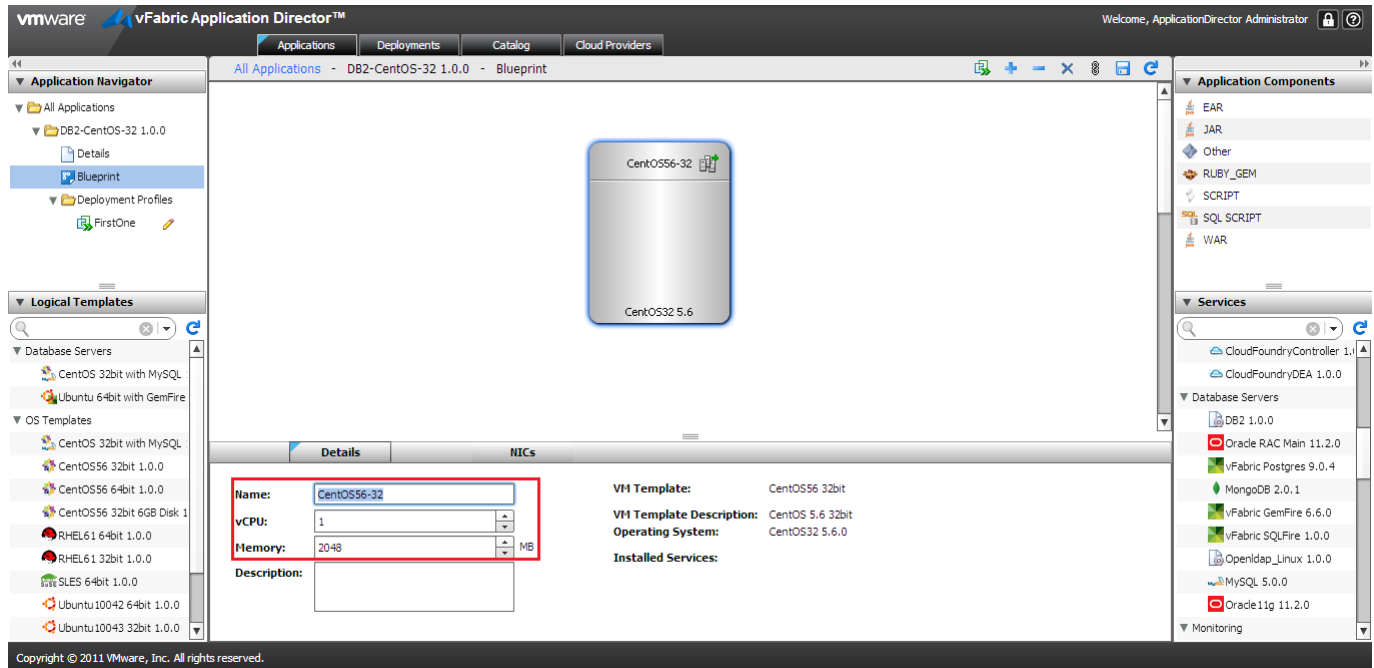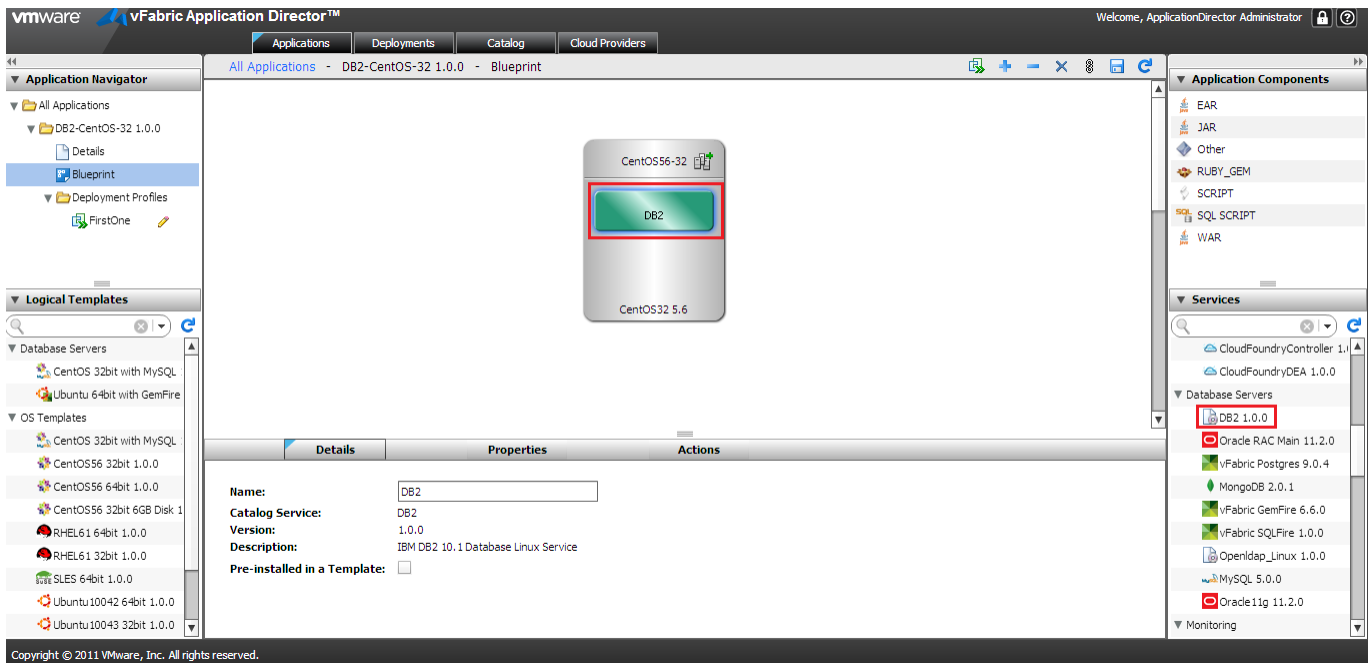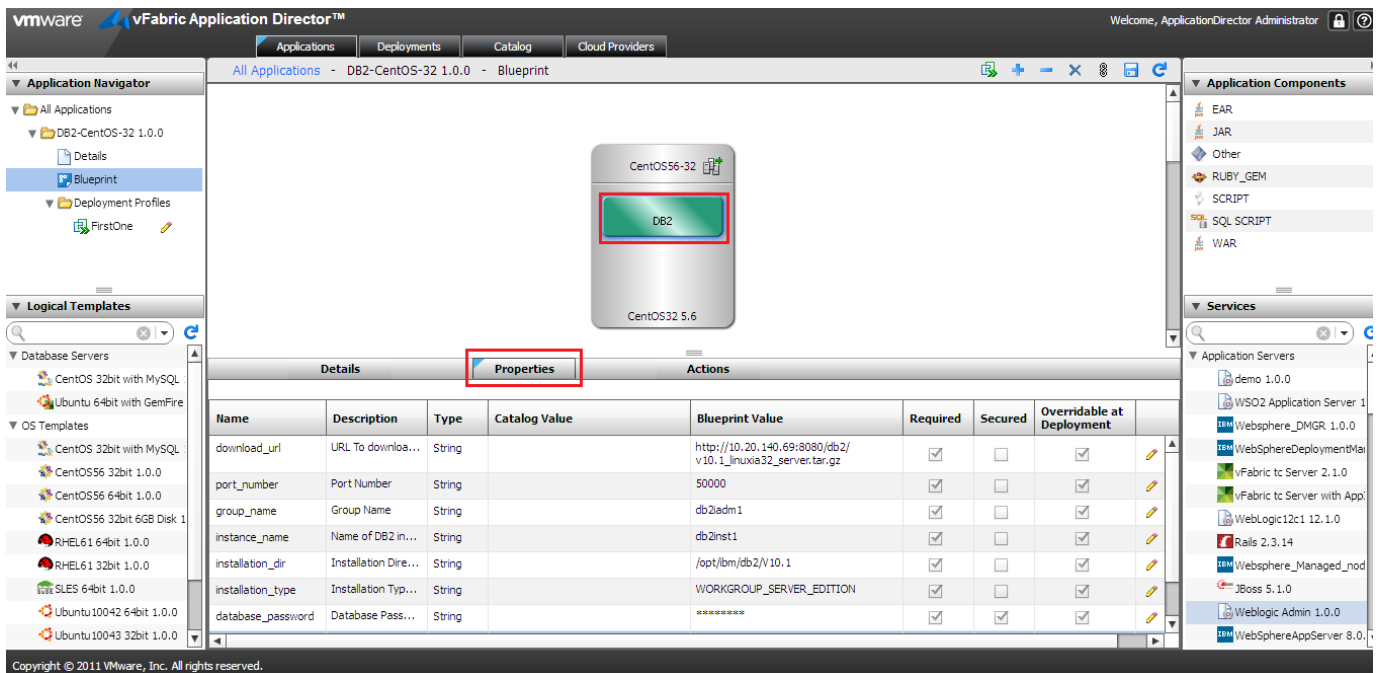

10. Save the application.

Configuring

1. 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.
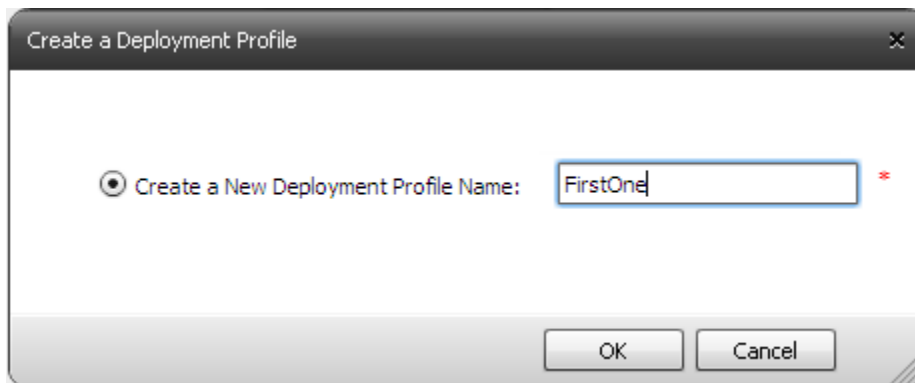
4. Save the Blueprint.

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.
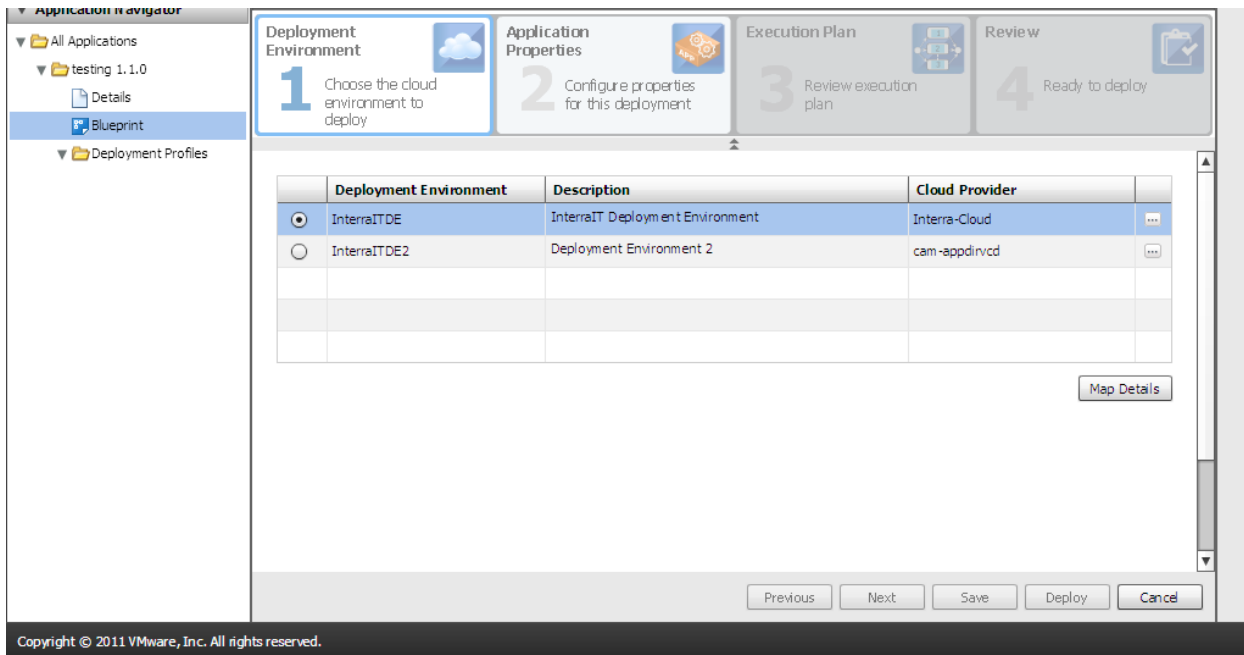3. Click on the Deploy Tab on the Blueprint page.
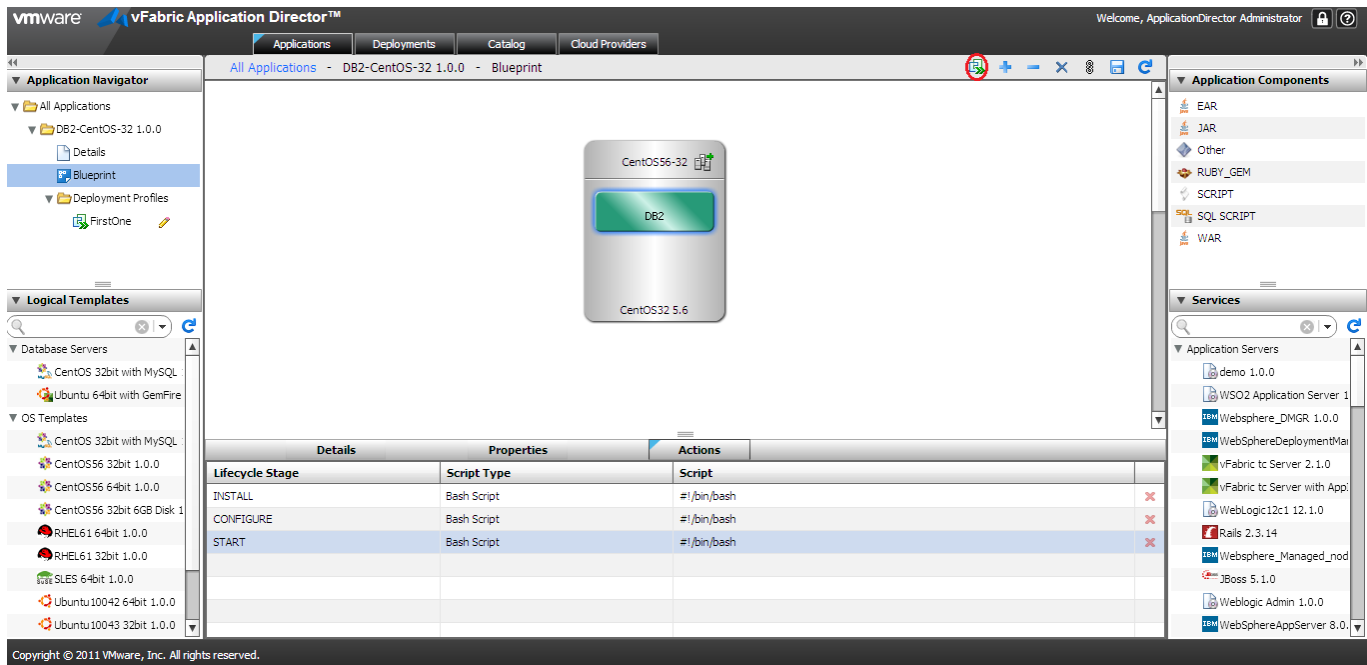
4. It will bring up the deployment profile window. Enter a deployment profile name for example FirstOne .Click **OK**

5. This will bring up the deploy wizard.

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 ▼ 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	☑	db2iadm1	Use blueprint value.
installation_dir	String	Installation Directory	☑	/opt/ibm/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.
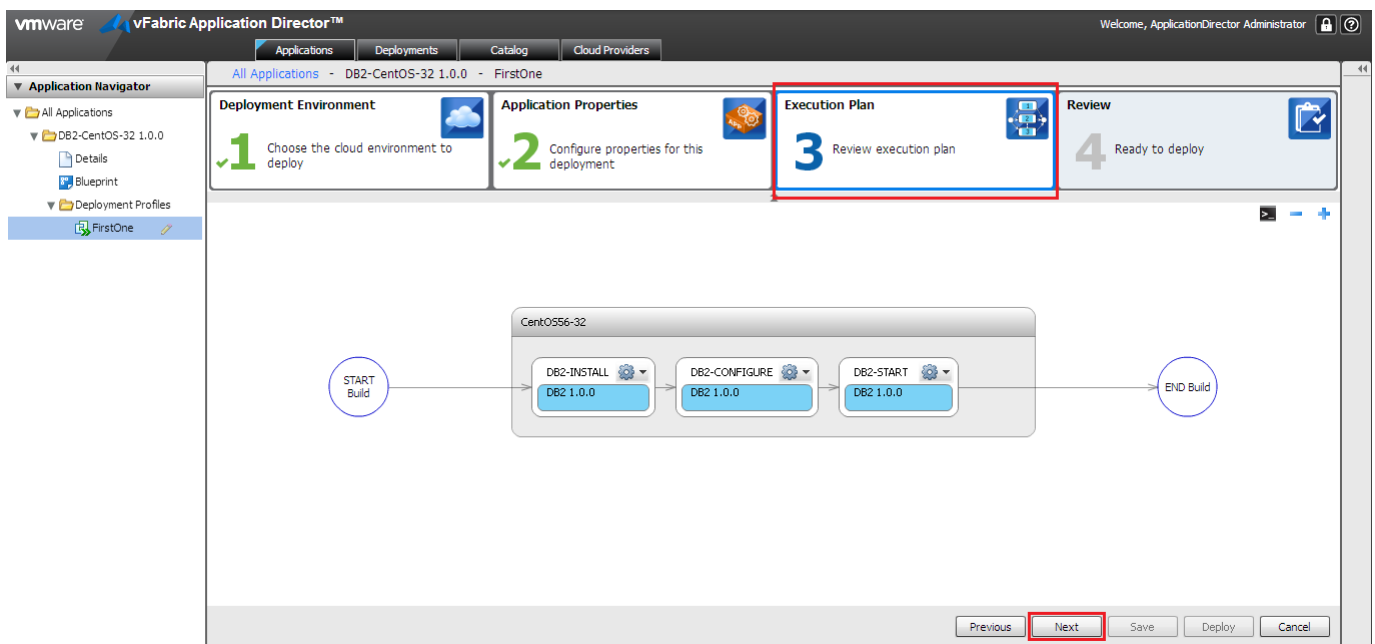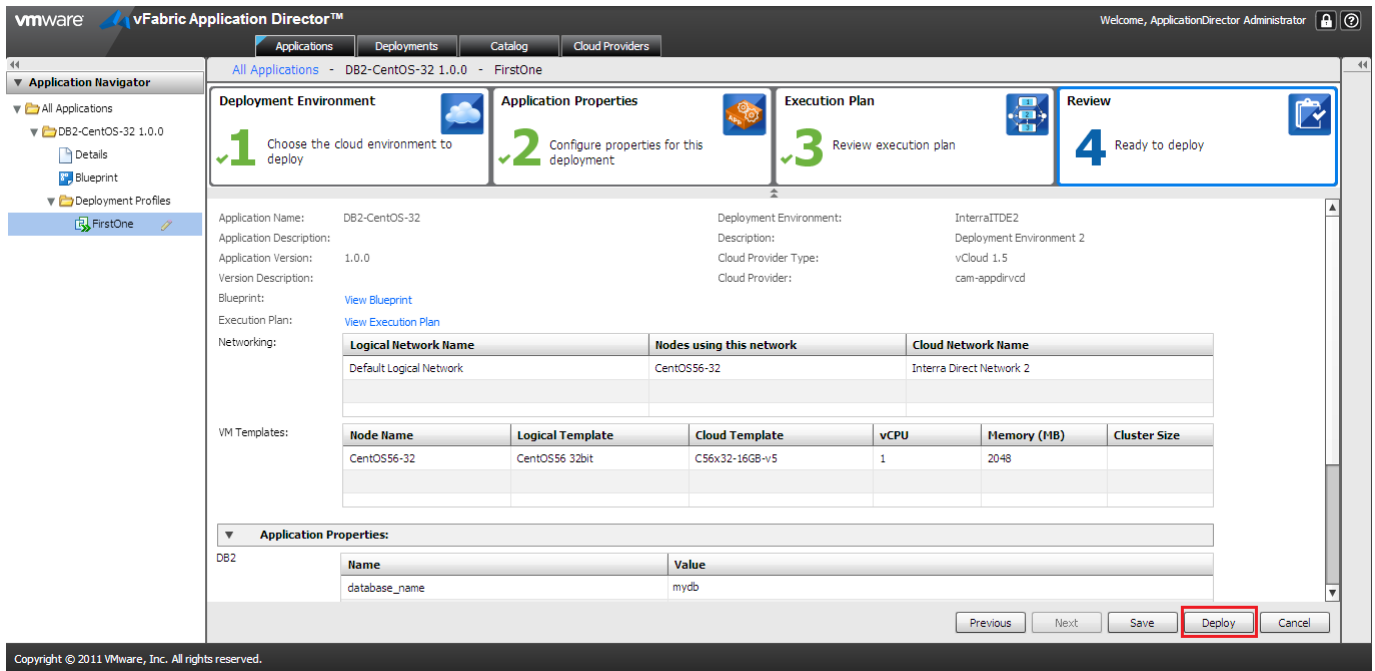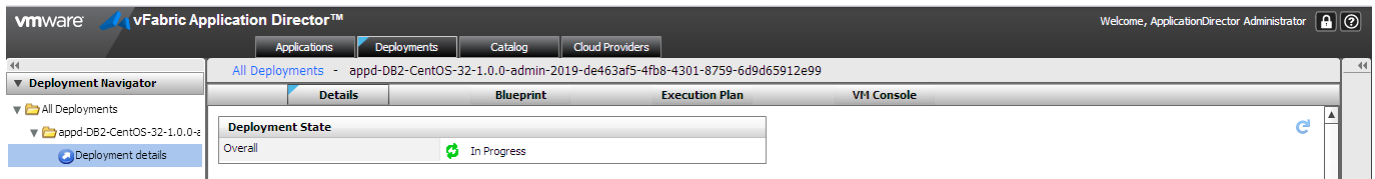
9. Wait for deployment details screen to come up. This will take a minute or so. At this time, the system is preparing to initiate the deployment.
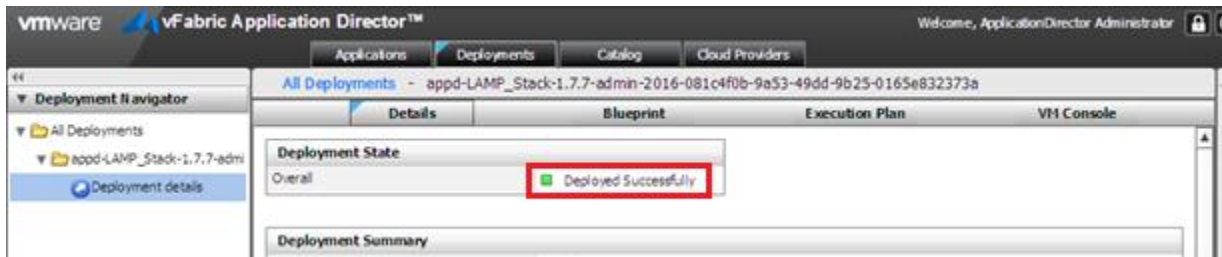

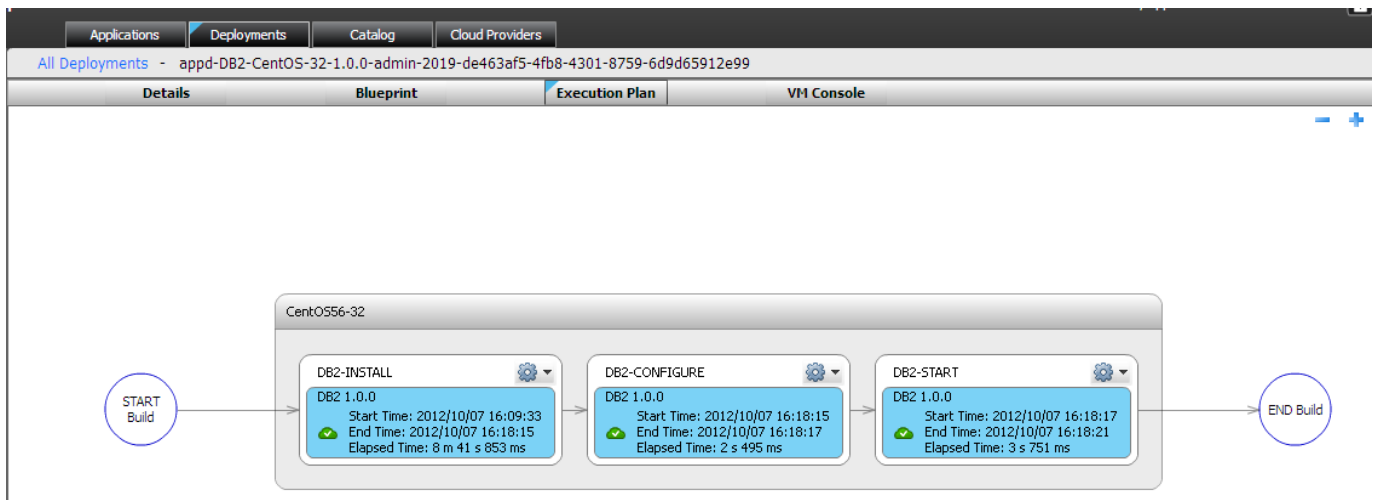10. Click on the *refresh* icon and check the deployment status. Note that it says **"In Progress"**.

Verify Smoke test passed

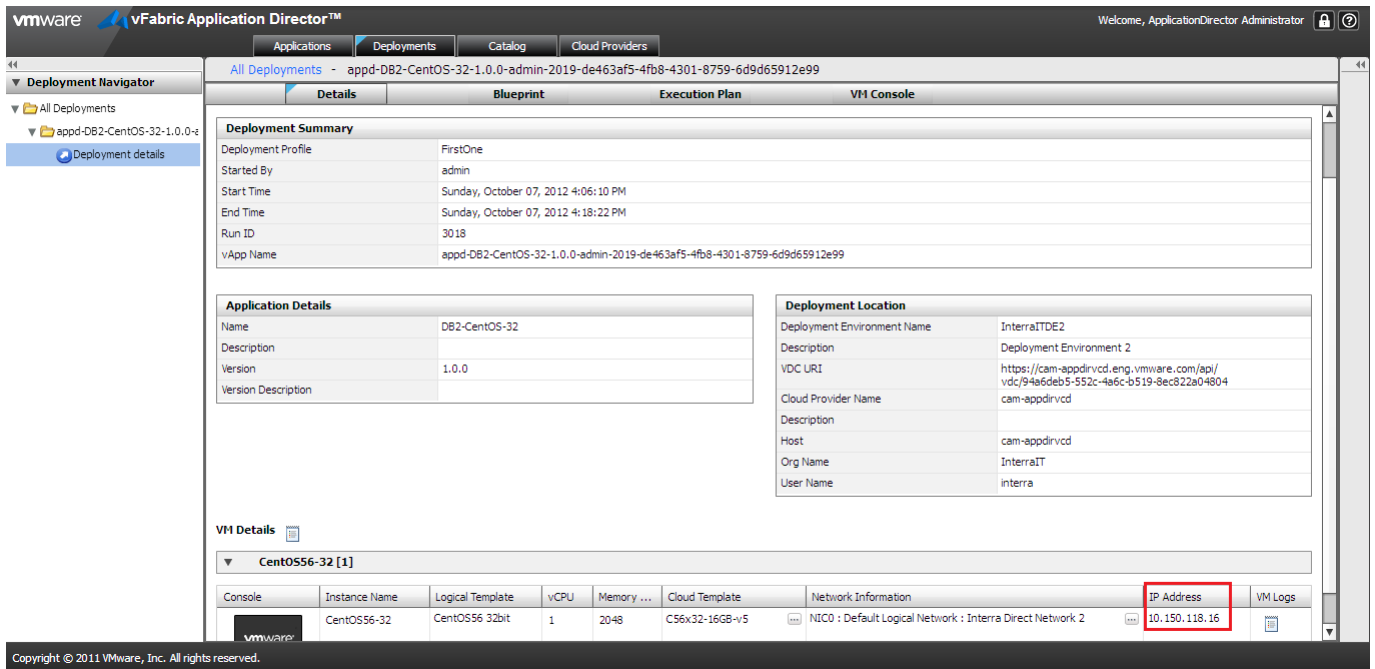1. Wait until the deployment status is reported as **Deployed Successfully**.

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.

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

   String url = "jdbc:db2://<db_machine_ip>:50000/<db_name>";