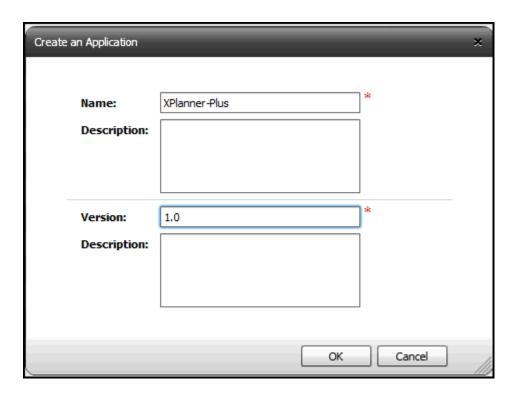
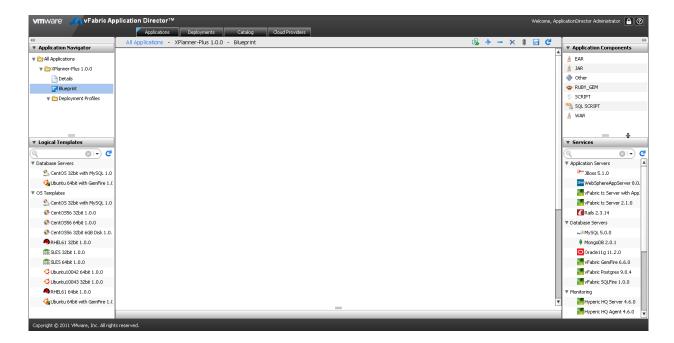
## **Create XPlanner application**

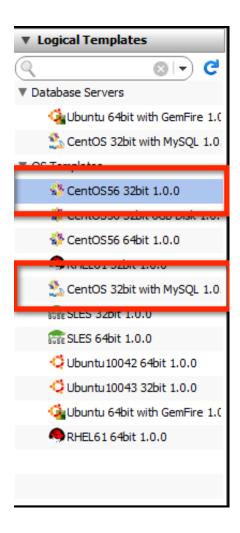
- 1. Login to Application Director with a user that has application architect rights.
- 2. Click on **Manage Applications.** This will take you to the list view of all applications.
- 3. Click on 🕈 to add a new application
- 4. Provide the following required details.
  - a. Name: XPlanner-Plus
  - b. Version: 1.0



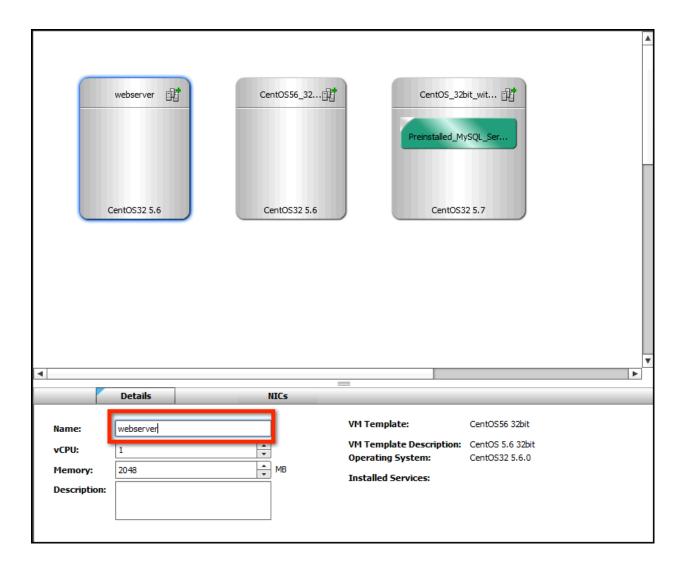
- 5. Click **OK**
- 6. On successful application creation, the user will be re-directed to the blueprint editor page. The XPlanner-plus blueprint topology consists of 3 components database, appserver, webserver. We need to create these 3 nodes
- 7. You will see Logical Templates on the bottom left



8. Drag & drop the template labeled **CentOS56 32bit 1.0.0** twice in the central white canvas area. And then drag the template **CentOS 32 bit with MySQL** on the canvas. These templates need to have been uploaded and regisetered in the cloud provider.



- 9. Now you will have 3 nodes in the canvas
- 10. Select the first node. In the **Details** pane type **webserver** in the name field.



11. Name second node appserver and the third node as database

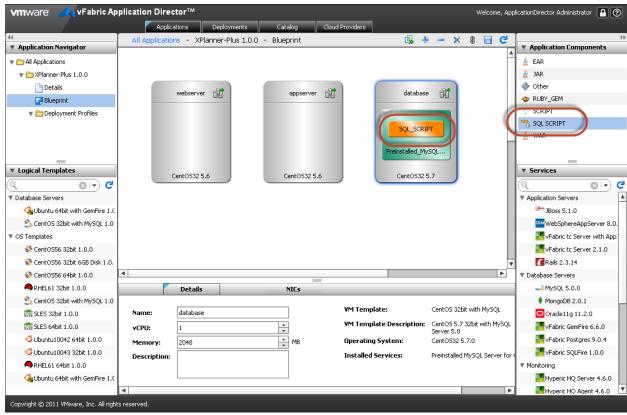
# **Configuring the database**

- 12. Click on database node
- 13. Keep the memory to default value which is 2048 MB and save the app

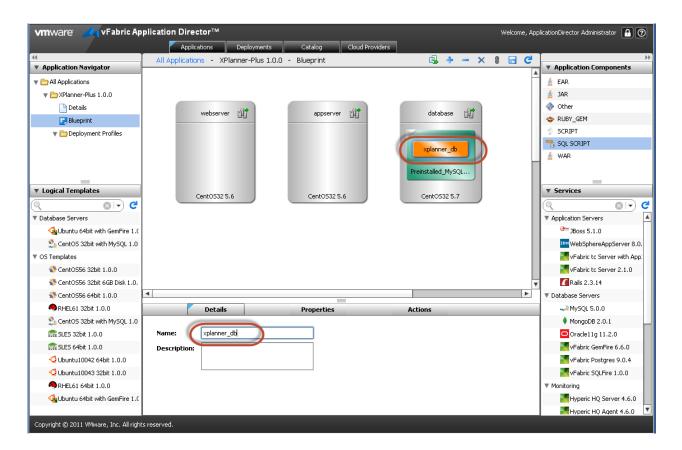


14. Now, you will configure the application component that resides in the MySql service on this node. The Application component is an sql script.

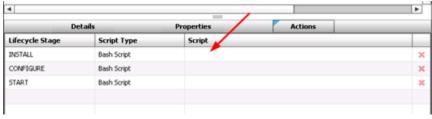
15. Now drag & drop **SQL Script** from **Application components** panel on the topright to the Preinstalled\_MySQL component within the database node.



16. Click on the SQL\_SCRIPT component and in the Details pain type **xplanner\_db** in the name field.



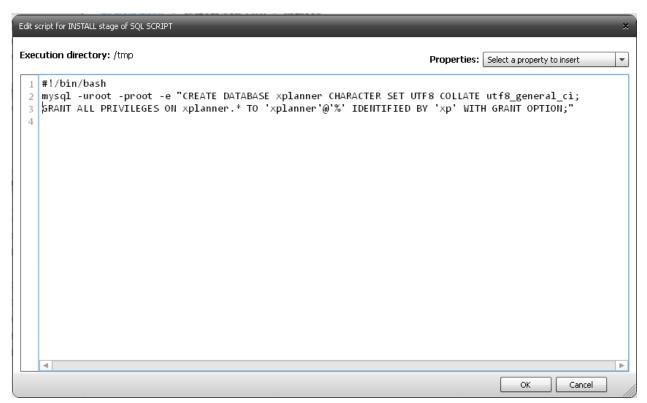
- 17. Click on the **xplanner\_db** component and go to actions tab in the lower pane
- 18. Click on the first empty cell in the Script column. This is where you would click to bring up the script window to paste the INSTALL SCRIPT of the application component (xplanner db).



- 19. Click on the cell. It will bring up a scripting window.
- 20. Copy and paste the script below in the window for install script for xplanner\_db component and save. Please refer to file **install\_db.txt**.

#### #!/bin/bash

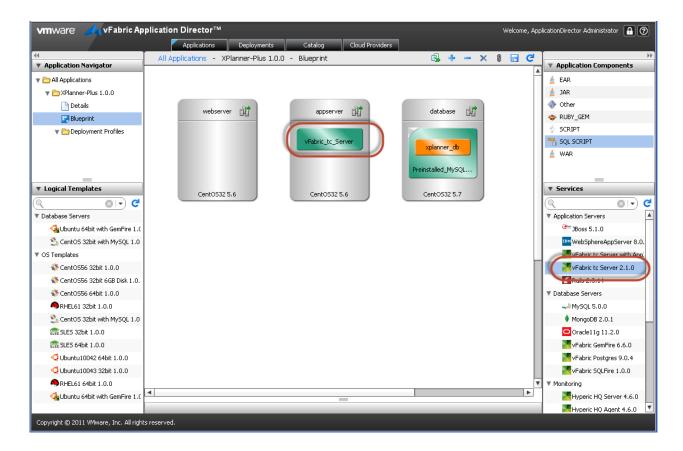
mysql -uroot -proot -e "CREATE DATABASE xplanner CHARACTER SET UTF8 COLLATE utf8\_general\_ci; GRANT ALL PRIVILEGES ON xplanner.\* TO 'xplanner'@'%' IDENTIFIED BY 'xp' WITH GRANT OPTION;"



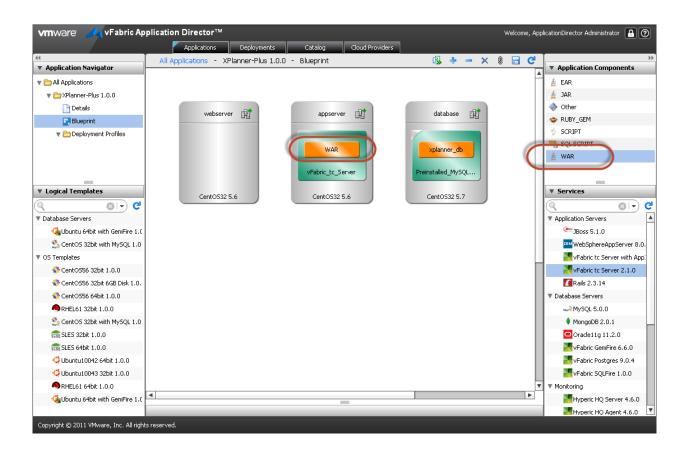
NOTE – keep saving your blueprint periodically. Save icon is on the top right of the palette on the canvas. This is to make sure you don't lose your valuable work.

## Configuring the application server

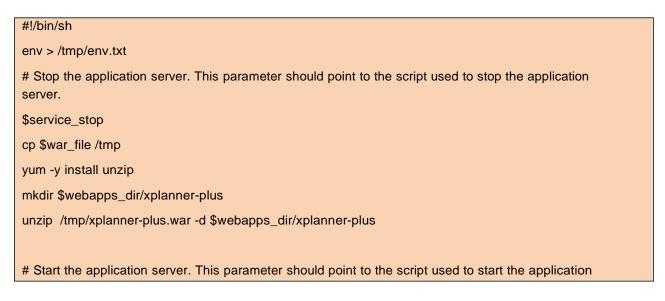
- 21. Click on appserver node
- 22. Leave the default memory of 2048 MB & Save the app
- 23. From the Services panel on the bottom right, drag and drop the service labeled **vFabric tc Server 2.1.0** on the appserver node.

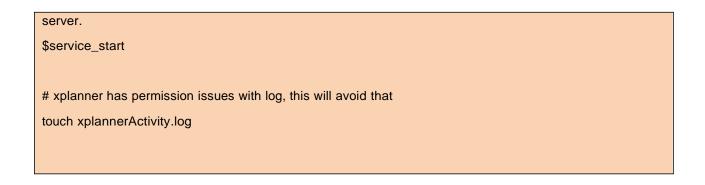


- 24. Click on the **vFabric tc Server 2.1.0** component and label it **tcServer** and save the blueprint.
- 25. Now drag and drop **WAR** component from **Application components** panel" on to the **tcServer** component

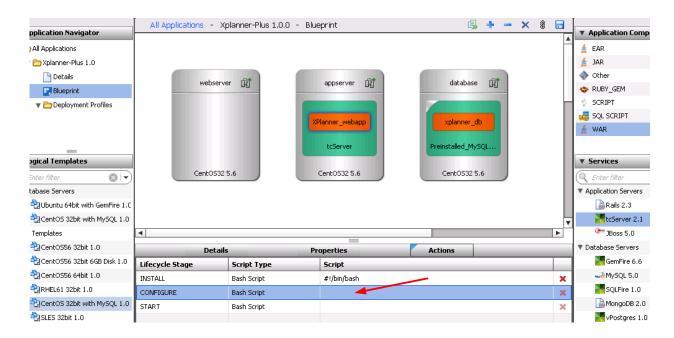


- 26. In the **Details** pane, label this **WAR** component as **XPlanner\_webapp**
- 27. While in the XPlanner\_webapp component is selected, click on Actions tab
- Click on the cell under Script column to bring up a script window for the INSTALL script
- 29. Replace the existing script with the following. Please refer to file **install\_webapp.txt** to copy the script.





30. Click on the empty cell on the row for **CONFIGURE** as shown. This will bring up a scripting window



31. In the scripting window, copy and paste the below script. Please refer to file **configure\_webapp.txt** to copy the script.

#!/bin/sh

env > /tmp/env.txt

# Stop the application server.

\$service\_stop

# Configuring xplanner-custom.properties to use with MySQL

cp /opt/vmware/darwin/tcserver/working/springsource-tc-server-standard/instance1/webapps/xplanner-plus/WEB-INF/classes/xplanner-custom.properties /tmp/xplanner-custom.properties.backup

cat <<EOF > /opt/vmware/darwin/tcserver/working/springsource-tc-serverstandard/instance1/webapps/xplanner-plus/WEB-INF/classes/xplanner-custom.properties

hibernate. dialect = com. technoetic. xplanner. db. hibernate. XPlanner MySQLDialect

hibernate.connection.driver\_class=com.mysql.jdbc.Driver

hibernate.connection.dbname=xplanner

hibernate.connection.url=jdbc:mysql://\$db\_host:\$db\_port/xplanner

hibernate.connection.username=xplanner

hibernate.connection.password=xp

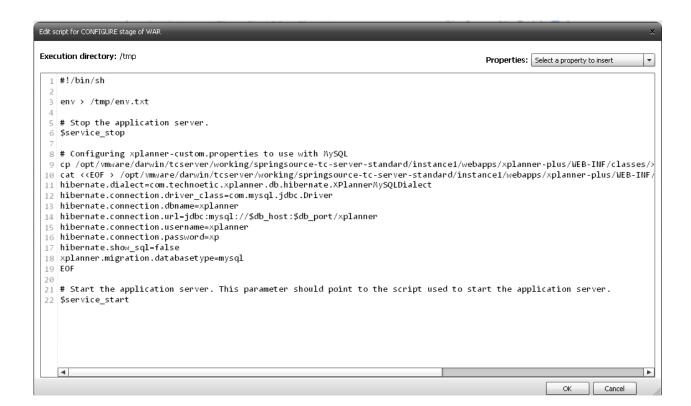
hibernate.show\_sql=false

xplanner.migration.databasetype=mysql

**EOF** 

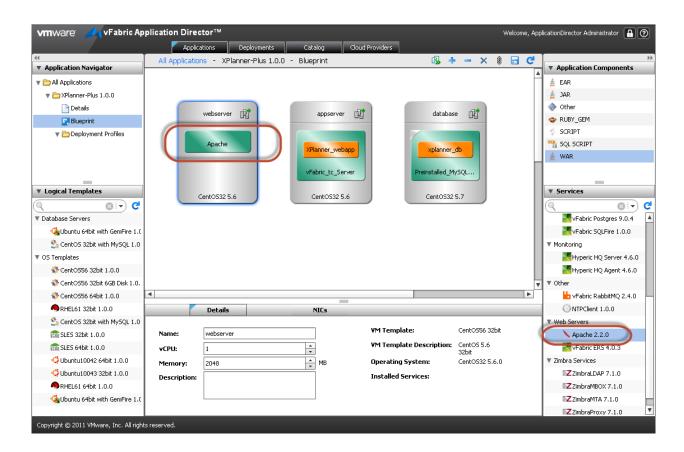
# Start the application server. This parameter should point to the script used to start the application server.

\$service\_start



### **Configuring the WEB server**

- 32. Click on webserver node
- 33. From the Services Panel on the bottom right, drag and drop the **Apache 2.2.0** from the **Web Servers** list to the **webserver** node.



34. Save this application

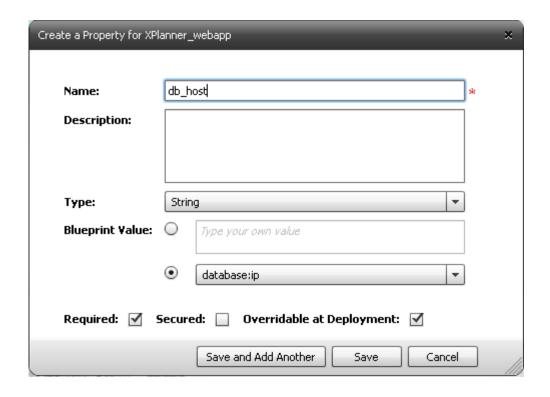
## **Configuring Properties**

- 35. Click on XPlanner\_webapp component
- 36. Click on the Properties Palette. You will need to create new properties and associate values
- 37. Click on the + icon
- 38. In the dialog box type the following information:

a. Name: db\_host

b. Type: String

c. Blueprint Value: (Bind value) database:ip



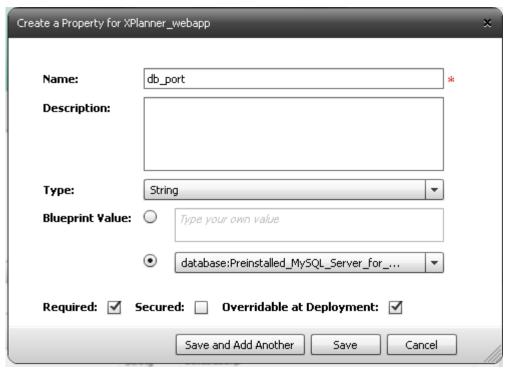
### 39. Click Save and Add Another

40. In the dialog box type the following information:

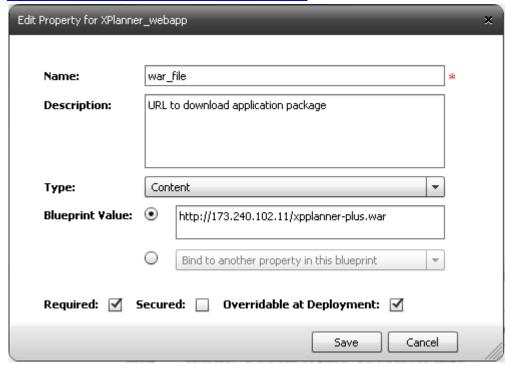
a. Name: db\_portb. Type: String

c. Blueprint Value: (Bind value)

database:Preisntalled\_MySQL\_Server\_for\_CentOS:db\_port



- 41. Click on Save and then Save again
- 42. In the **Properties** section, double click on the war\_file property
- **43.** For the blueprint value select the first radio button and type <a href="http://<file server IP>/xplanner-plus.war">http://<file server IP>/xplanner-plus.war</a>



44. Double click on the property **service\_start** and type the following in the blueprint value textbox (first radio button) and then click Save.

/opt/vmware/darwin/tcserver/working/springsource-tc-server-standard/instance1/bin/tcruntime-ctl.sh start

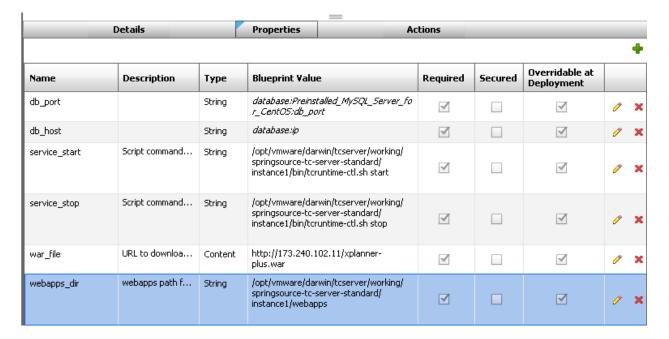
45. Double click on the property **service\_stop** and type the following in the blueprint value textbox (first radio button) and then click Save.

/opt/vmware/darwin/tcserver/working/springsource-tc-server-standard/instance1/bin/tcruntime-ctl.sh stop

46. Double click on the property **webapps\_dir** and type the following in the blueprint value textbox (first radio button) and then click Save.

/opt/vmware/darwin/tcserver/working/springsource-tc-server-standard/instance1/webapps

47. Once properties are all created for the XPlanner\_webapp, the property palette should look like the screenshot below.

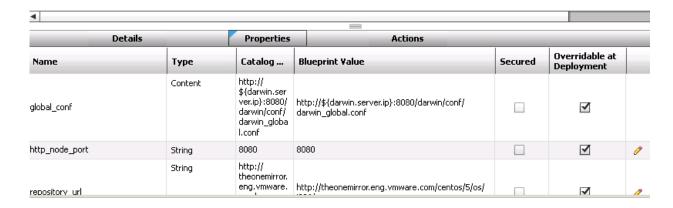


48. Click on Apache component and click on Properties palette

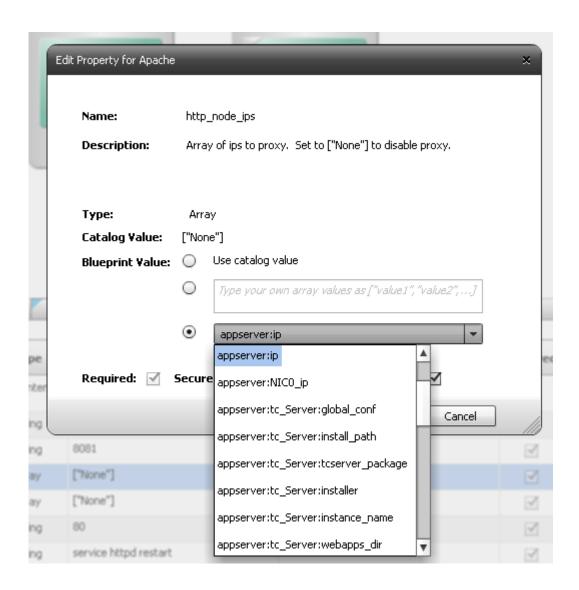




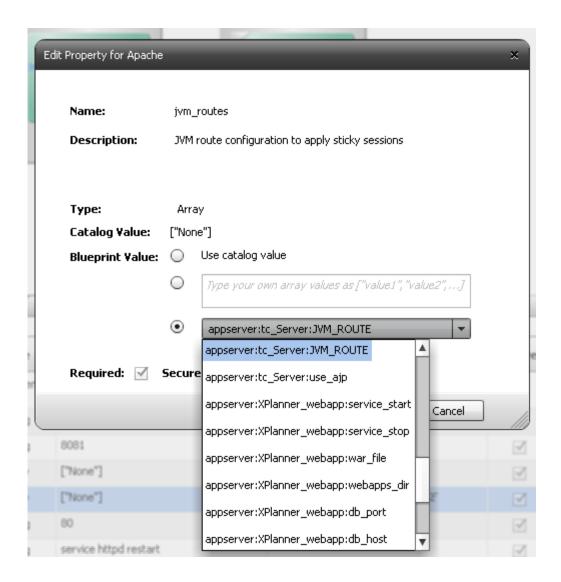




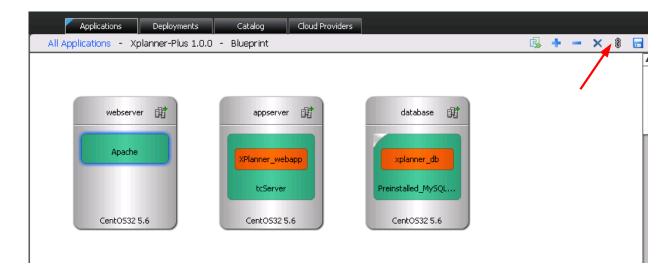
- 49. Scroll down until you see http\_node\_ips property. Double click this value.
- 50. Pick the blueprint value from second radio button option for bound properties appserver:ip



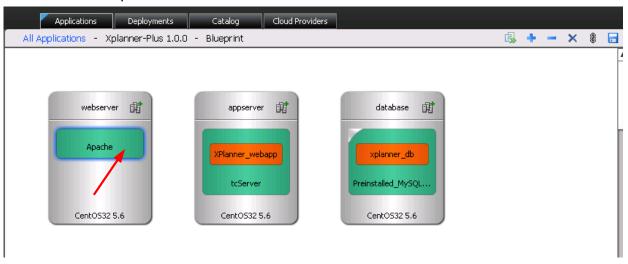
- 51. Scroll down until you see jvm\_routes property. Double click this value.
- 52. Pick the blueprint value from second radio button option for bound properties appserver:tc\_Server:JVM\_ROUTE



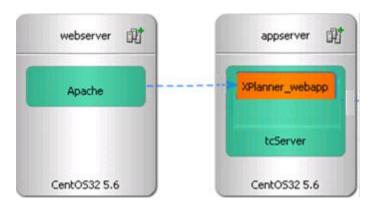
- 53. Link Apache to XPlanner\_webapp. The way to do this is as follows
  - a. Click on the link icon



b. Click on Apache node

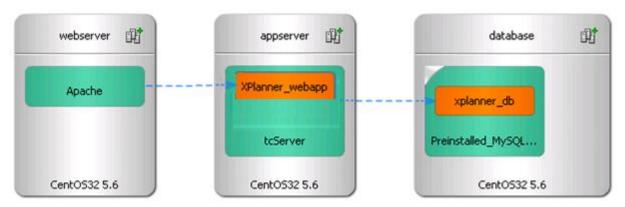


c. And then click on the XPlanner\_webapp node. You will see a link drawn between the two.

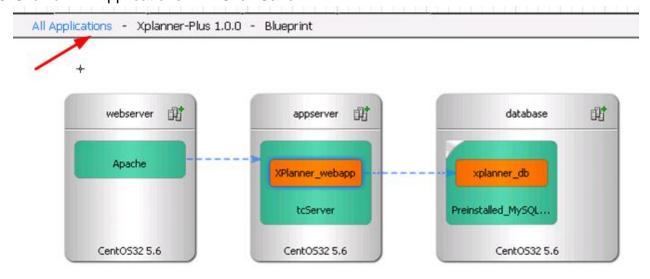


54. Similarly draw a link from "XPlanner\_webapp" to "xplanner\_db" by clicking on the link icon on the palette first, click on the XPlanner\_webapp, and then clicking on xplanner\_db

Note – Essentially click link icon → click from-node -> click to-node



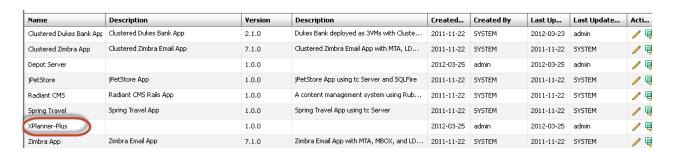
- 55. Save the blueprint
- 56. Click on All Applications link. Click Save.



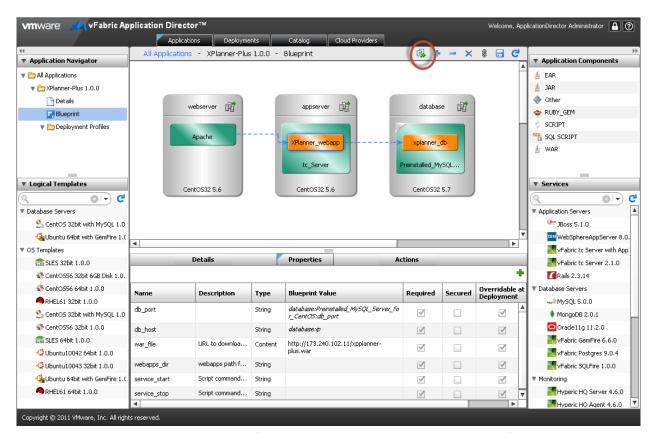
- 57. You should see this application in the Application list.
- 58. You can stop or continue to deploy the application.

### **Deploying the XPlanner app**

- 59. Login to the Application Director UI with a user that had deploy rights
- 60. Click on Manage Applications
- 61. Select the XPlanner-Plus application



62. Click on Deploy icon on blueprint



- 63. It will bring up the deployment profile window. Enter a deployment profile called dev\_profile. Click OK.
- 64. This will bring up the deploy wizard. Click on the Map Details button.
- 65. Click on the deployment environment **Development** and click on the **Map**Details button

- 66. Click **Next** and **Next** again to view the execution plan
- 67. If needed add a "Yum Repository Config" task to the VMs
- 68. Click **Next** again and then click the **Deploy** button on the bottom button panel of the wizard
- 69. 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.
- 70. Click on the refresh icon and check the deployment status. Note that it says "In Progress"

### **Review status of deployment**

71. Track the status of deployment by refreshing frequently (click on the refresh icon on the deployment details page)

### **Verify Smoke test passed**

- 72. Wait until the deployment status is reported as Deployed Successfully
- 73. Click on the Execution plan
- 74. Click on the execution plan to see green status marks on each task

## Launch deployed application

- 75. Click back on the Details page to copy the appserver IP from the VM table. You will need these to launch the app
- 76. Go to browser and type: http://<appserver IP>:8080/xplanner-plus/index.jsp.
- 77. Login as user "sysadmin" and password "admin". This should launch the app
- 78. Now, get the webserver IP, and go to : http://<webserver IP >:8081:/xplanner- plus/index.jsp.
- 79. Login as user "sysadmin" and password "admin"

