

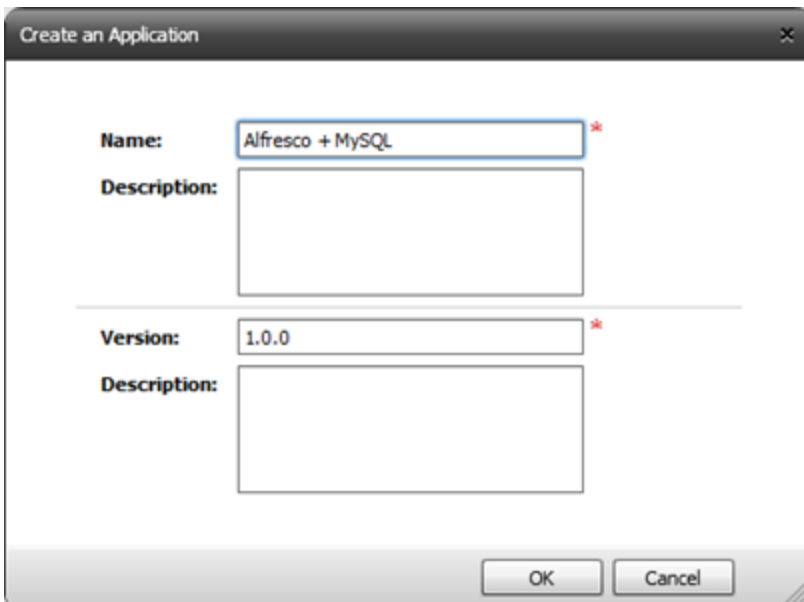
# Create Alfresco application with MySQL as Database

## Prerequisites: -

1. Install and configure VMware vFabric Application Director with vCloud Director.
2. Add Alfresco as Service in the Appdirector Catalog. For details on how to do this go to <link to Alfresco service on Solutions Exchange website>.

## Steps:-

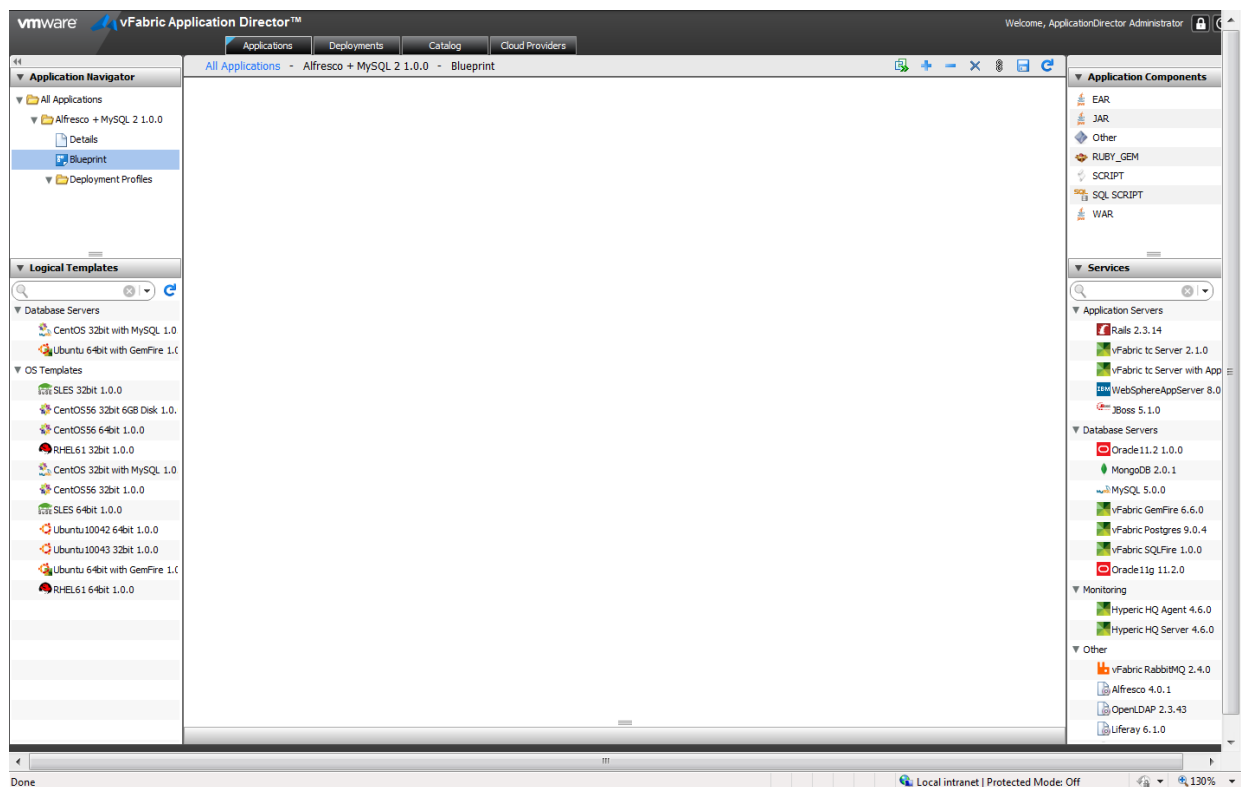
1. Login to Application Director with a user that has application architect rights.
2. Click on **Manage Applications**. This will take you to the list view of all applications.
3. Click on **+** to add a new application
4. Provide the following required details.
  - a. Name: Alfresco + MySQL
  - b. Version: 1.0.0



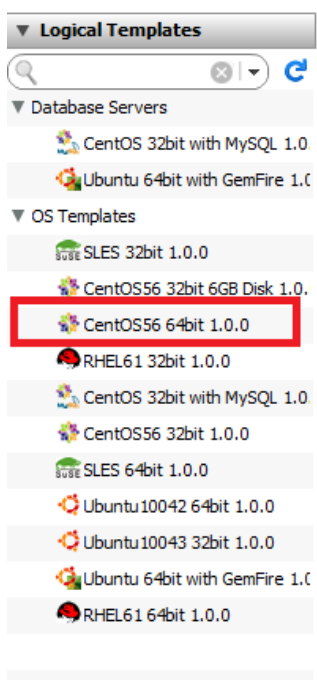
5. Click **OK**

6. On successful application creation, the user will be re-directed to the blueprint editor page. The Alfresco+MySQL blueprint topology consists of 2 components - database, application server. We need to create these 2 nodes.

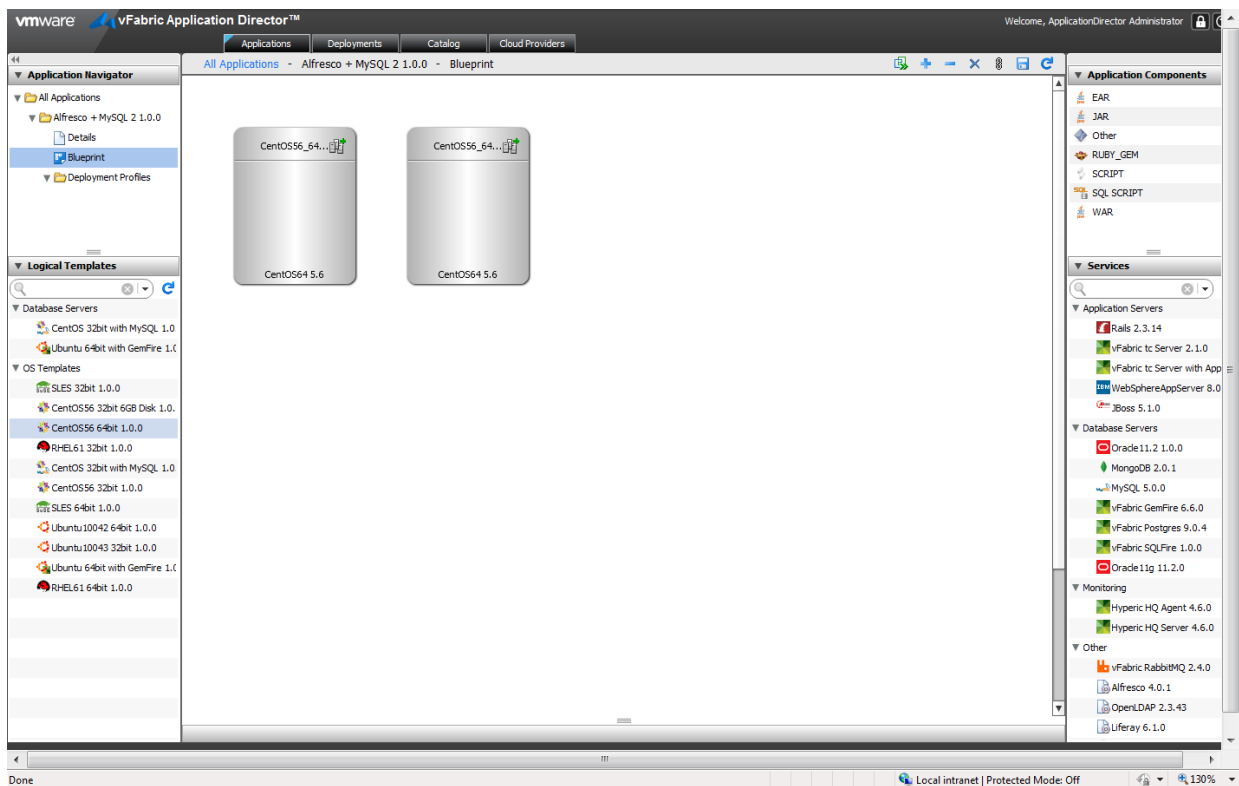
7. You will see Logical Templates on the bottom left.



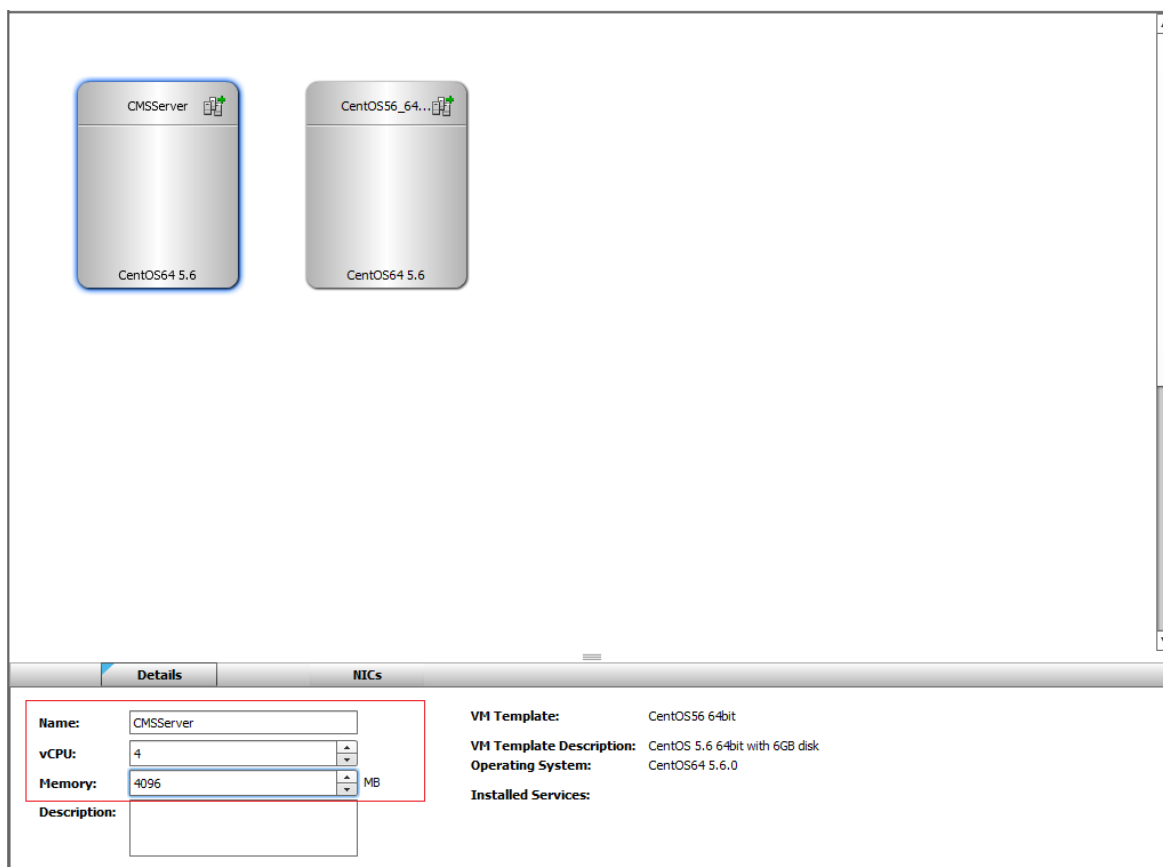
8. Drag & drop the template labeled CentOS56 64bit 1.0.0 twice in the central white canvas area. This templates need to have been uploaded and registered in the cloud provider.



9. Now you will have 2 nodes in the canvas.

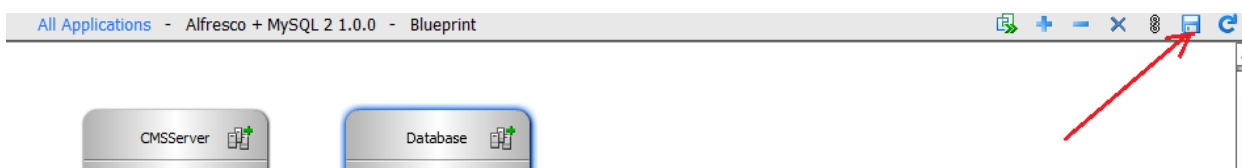


10. Select the first node. In the **Details** pane type **CMSServer** in the name field, this will be the hostname for this node. Type **4** for vCPU and **4096** for Memory.



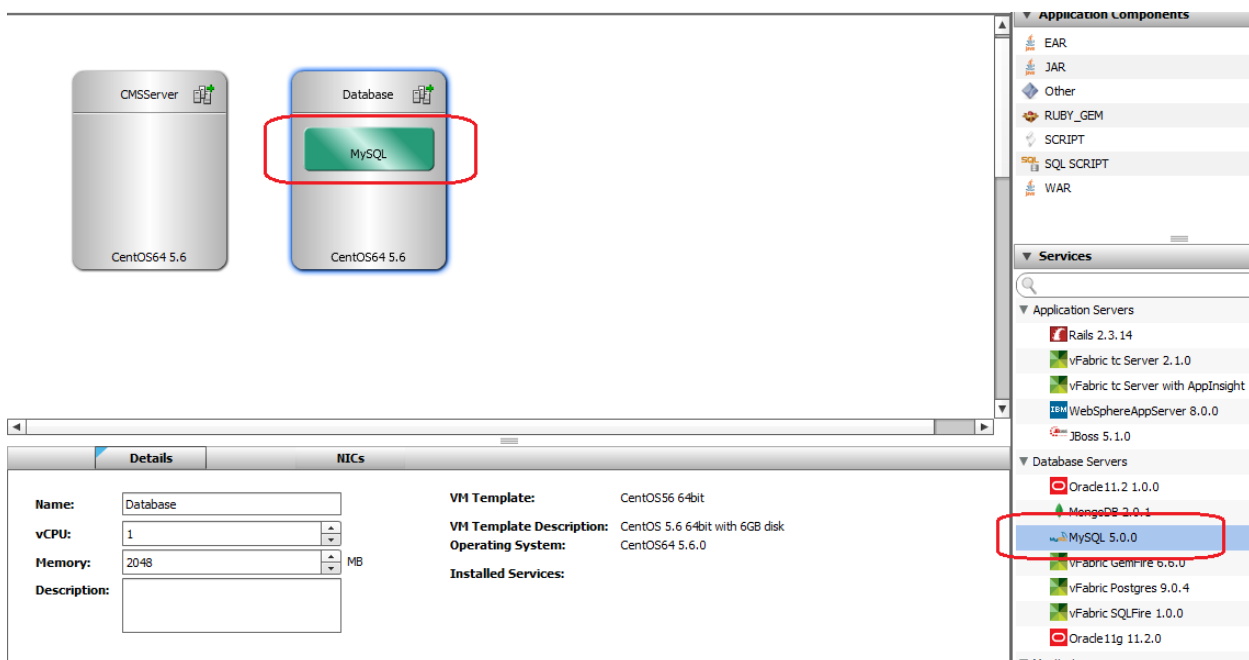
11. Name the second node as **Database** and keep the vCPU and Memory to default which is 1 and 2048MB respectively

12. Save the application.

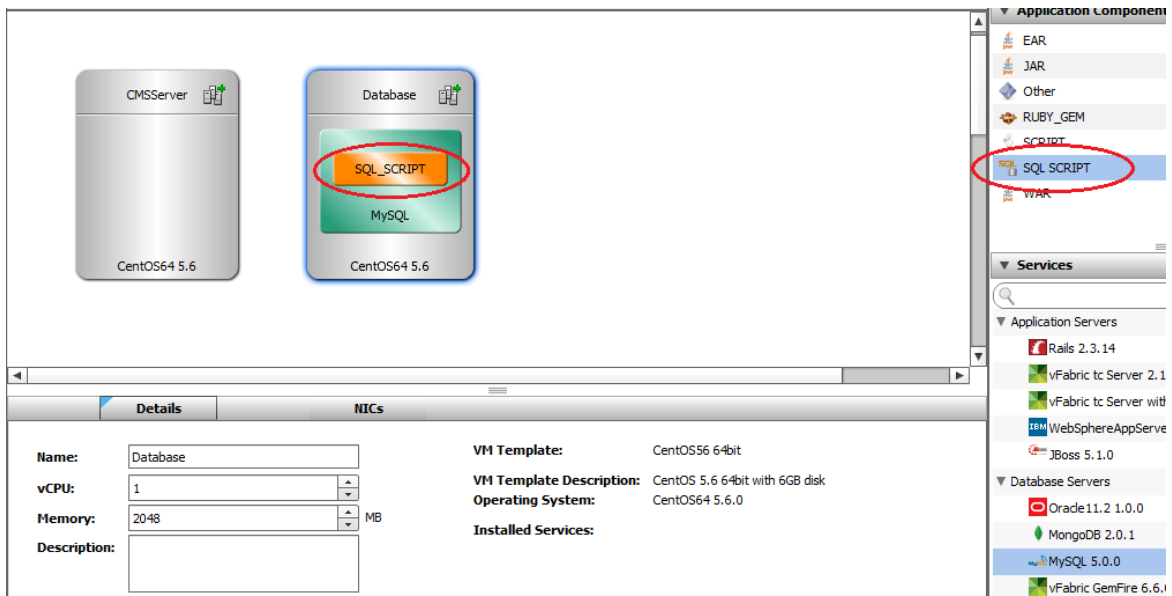


## Configuring the Database Node

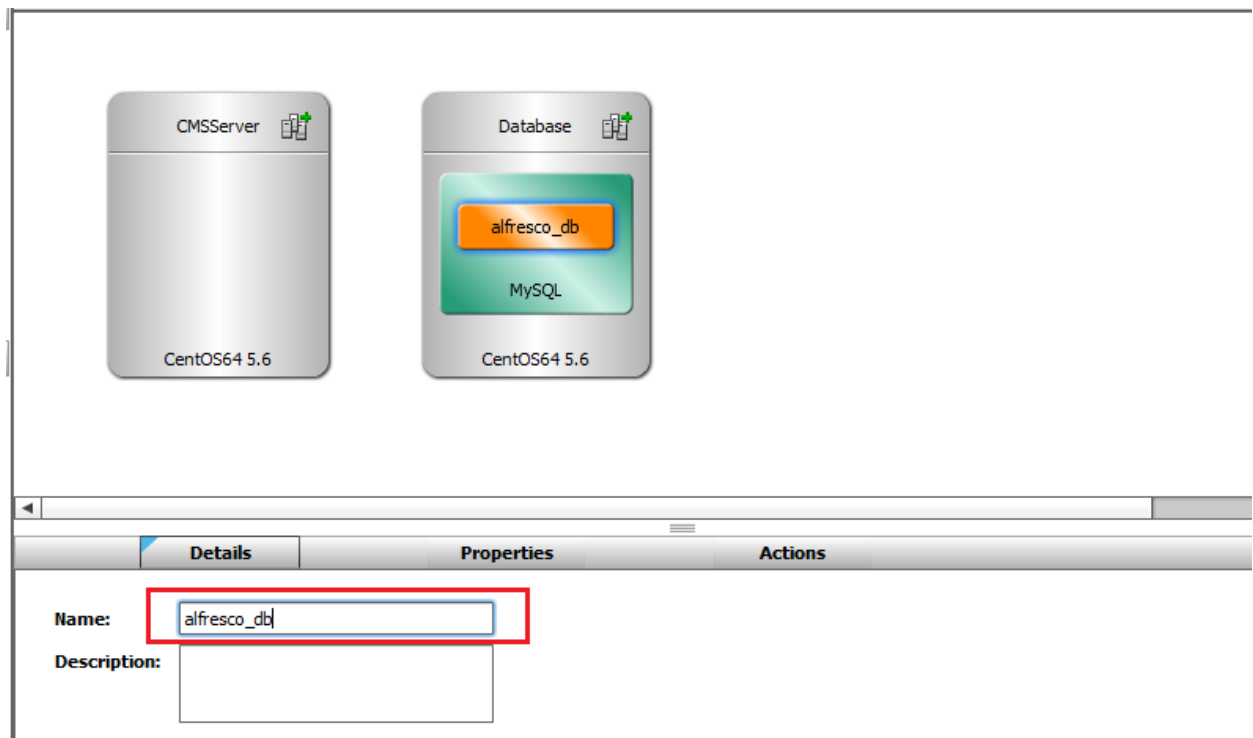
1. From the Services panel on the bottom right, drag and drop the service labeled **MySQL 5.0.0** on the **Database** node.



2. Now, you will configure the application component that resides in the MySQL service on this node. The Application component is a sql script.
3. Now drag & drop **SQL Script** from **Application components** panel on the top-right to the Preinstalled\_MySQL component within the Database node.

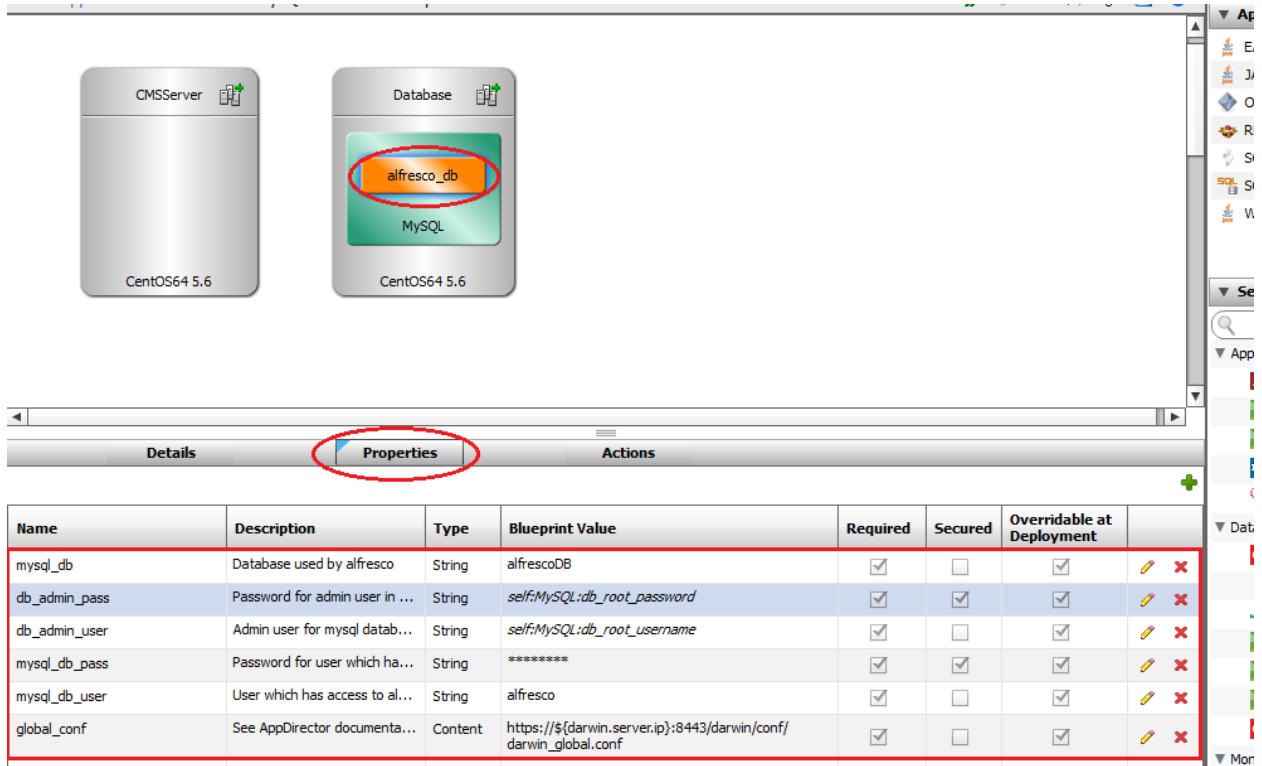


- Click on the SQL\_SCRIPT component and in the Details pain type **alfresco\_db** in the name field.



- Click on the **alfresco\_db** component and go to properties tab in the lower pane. Add the properties as described in the table below.

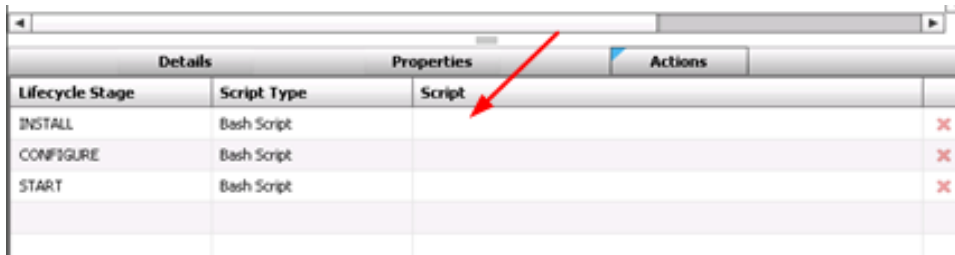
Name	Description	Type	Blueprint Value	Required	Secured	Overridable at Deployment
global_conf	See AppDirector documentation for usage information.	Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf	Yes	No	Yes
mysql_db_user	User which has access to alfresco database	String	alfresco	Yes	No	Yes
mysql_db_pass	Password for user which has access to alfresco database	String	alfresco	Yes	Yes	Yes
db_admin_user	Admin user for mysql database	String	self:MySQL:db_root_username (Select this from Bind to another property dropdown)	Yes	No	No
db_admin_pass	Password for admin user in mysql database	String	self:MySQL:db_root_password (Select this from Bind to another property dropdown)	Yes	Yes	No
mysql_db	Database used by alfresco	String	alfrescoDB	Yes	No	Yes



Name	Description	Type	Blueprint Value	Required	Secured	Overridable at Deployment	
mysql_db	Database used by alfresco	String	alfrescoDB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
db_admin_pass	Password for admin user in ...	String	self:MySQL:db_root_password	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
db_admin_user	Admin user for mysql datab...	String	self:MySQL:db_root_username	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
mysql_db_pass	Password for user which ha...	String	*****	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
mysql_db_user	User which has access to al...	String	alfresco	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
global_conf	See AppDirector documenta...	Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

- Save the blueprint.

7. Click on Action tab for **alfresco\_db** component.
8. 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 (alfresco\_db).



Details		Properties	Actions
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script		✗
CONFIGURE	Bash Script		✗
START	Bash Script		✗

9. Click on the cell. It will bring up a scripting window.
10. Copy and paste the script below in the window for install script for alfresco\_db component and save. Please refer to file **alfresco\_db-INSTALL.sh**.

```
#!/bin/bash

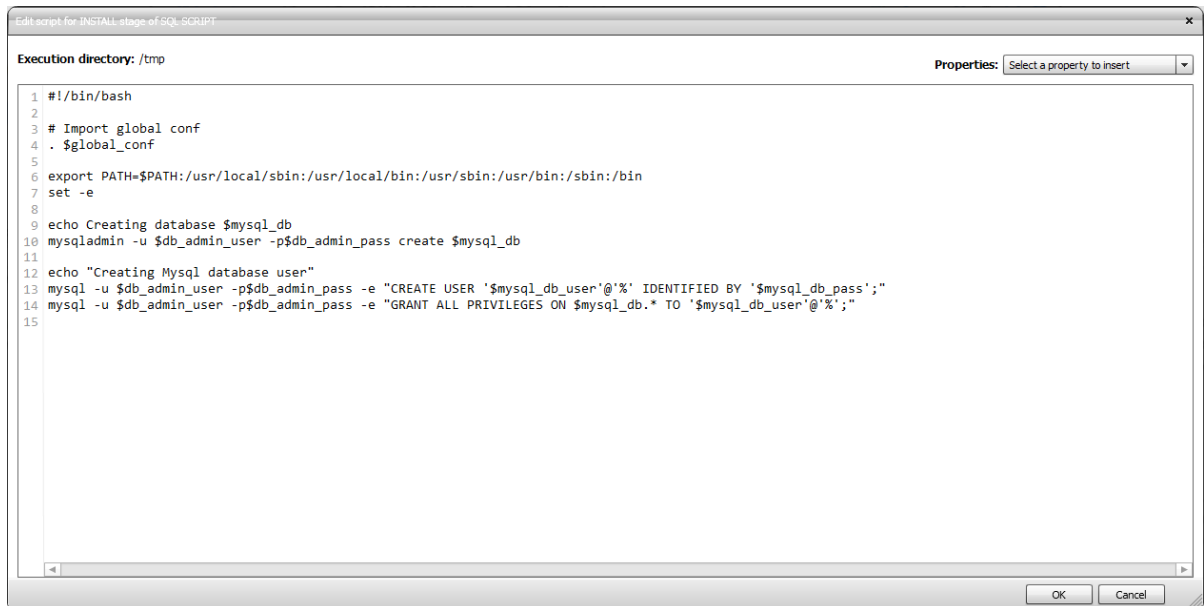
# Import global conf
. $global_conf

export PATH=$PATH:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
set -e

echo "Creating database $mysql_db"
mysqladmin -u $db_admin_user -p$db_admin_pass create $mysql_db

echo "Creating Mysql database user"
mysql -u $db_admin_user -p$db_admin_pass -e "CREATE USER '$mysql_db_user'@'%' IDENTIFIED BY '$mysql_db_pass';"
mysql -u $db_admin_user -p$db_admin_pass -e "GRANT ALL PRIVILEGES ON $mysql_db.* TO '$mysql_db_user'@'%';"
```



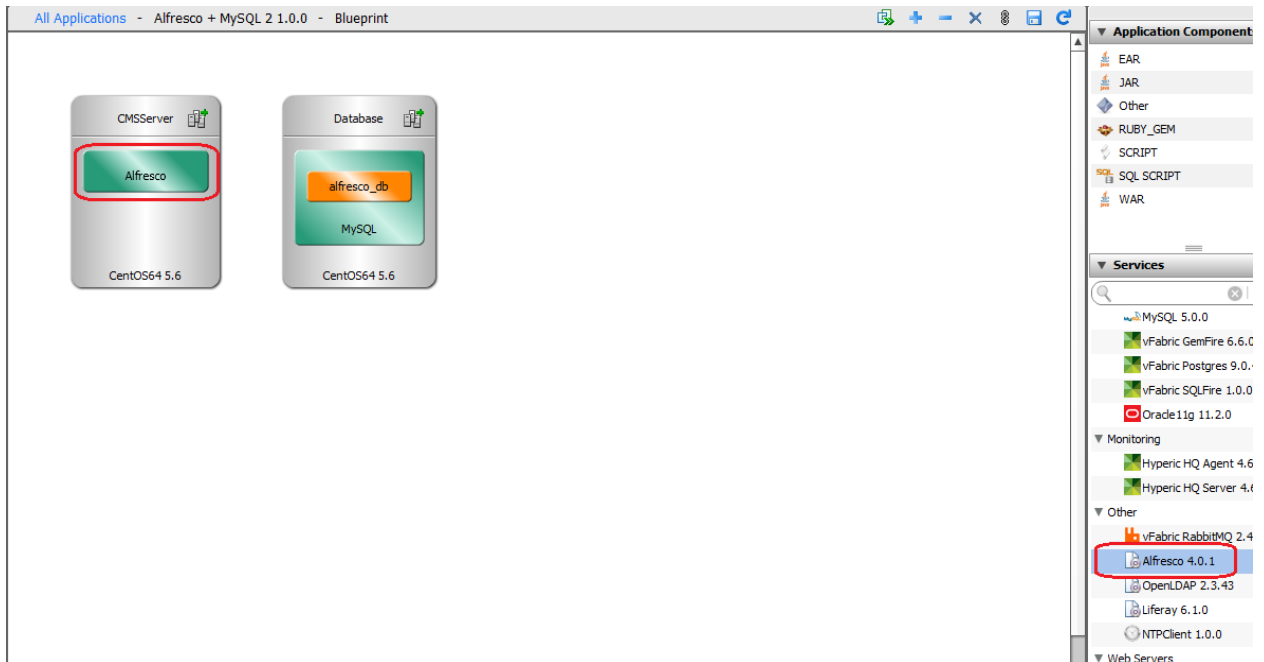


```
1 #!/bin/bash
2
3 # Import global conf
4 . $global_conf
5
6 export PATH=$PATH:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
7 set -e
8
9 echo Creating database $mysql_db
10 mysqladmin -u $db_admin_user -p$db_admin_pass create $mysql_db
11
12 echo "Creating Mysql database user"
13 mysql -u $db_admin_user -p$db_admin_pass -e "CREATE USER '$mysql_db_user'@'%' IDENTIFIED BY '$mysql_db_pass';"
14 mysql -u $db_admin_user -p$db_admin_pass -e "GRANT ALL PRIVILEGES ON $mysql_db.* TO '$mysql_db_user'@'%';"
15
```

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 CMSServer


1. Click on **CMSServer** node.
2. From the Services panel on the bottom right, drag and drop the service labeled **Alfresco 4.0.1** on the **CMSServer** node.

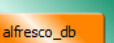


3. Save the blueprint.
4. Click on Alfresco component inside **CMSServer** node and then go to properties tab in the lower pane.

5. Scroll down until you see **mysql\_integration** property. Double click this value.

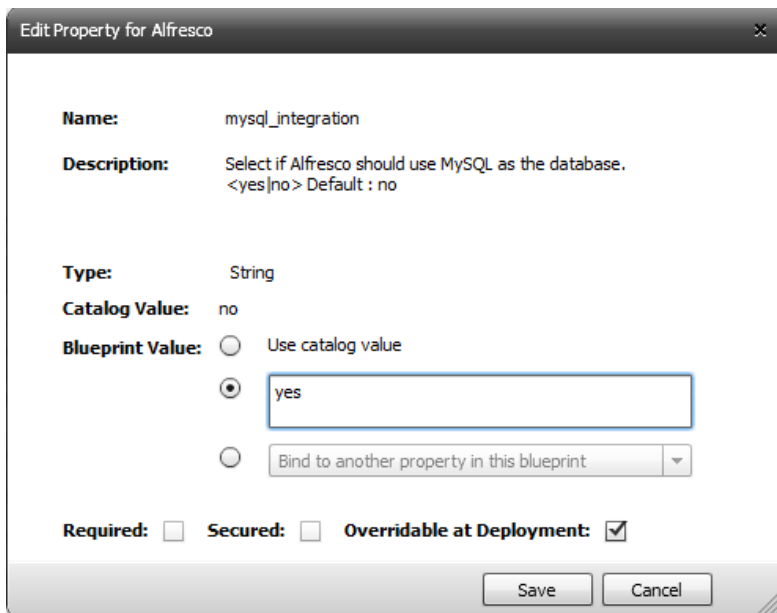
All Applications - Alfresco + MySQL 2 1.0.0 - Blueprint

CMS Server  
  
 Alfresco  
 CentOS64 5.6

Database  
  
 alfresco\_db  
 MySQL  
 CentOS64 5.6

Details		Properties		Actions			
Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Overridable at Deployment
global_conf	See AppDirecto...	Content	https://\$darwin.server.ip:8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mysql_db_driver	The MySQL dat...	String	org.gjt.mm.mysql.Driver		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mysql_integration	Select if Alfresc...	String	no		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mysql_db_password	MySQL databas...	String	*****		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
mysql_db_name	The MySQL dat...	String	alfresco		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mysql_db_username	MySQL databas...	String	alfresco		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mysql_connector	MySQL JAVA co...	Content	ftp://10.44.50.7/AppDirector/applications/Liferay/mysql-connector-java-5.0.8.tar.gz		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
liferay_integration	Select if Liferay...	String	no		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ALFRESCO_TOMCAT_HOME	Path to the dire...	String			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Check the second radio button in the blueprint value and type **yes** in the text box.



**Edit Property for Alfresco**

**Name:** mysql\_integration

**Description:** Select if Alfresco should use MySQL as the database.  
<yes|no> Default : no

**Type:** String

**Catalog Value:** no

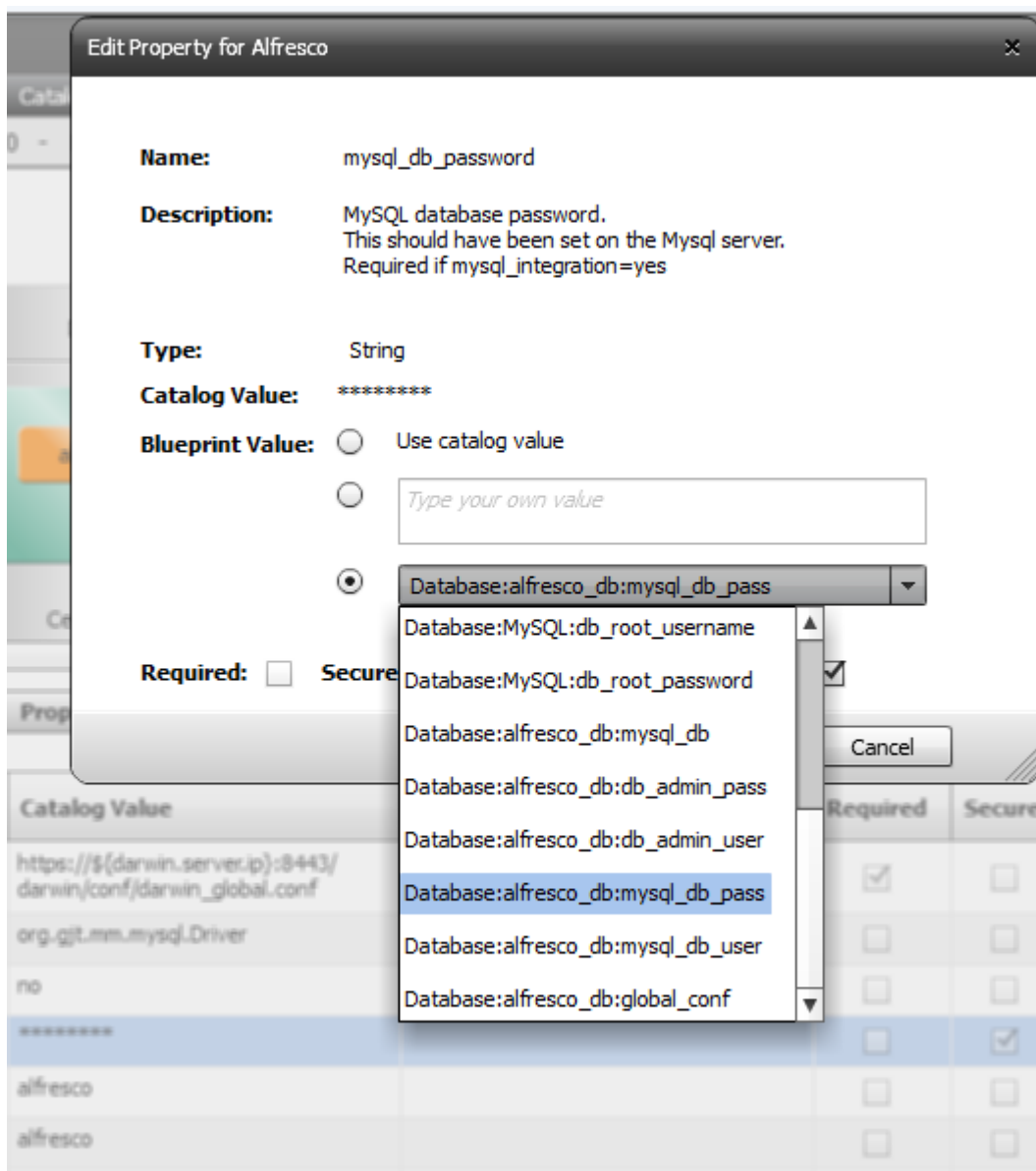
**Blueprint Value:**

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

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

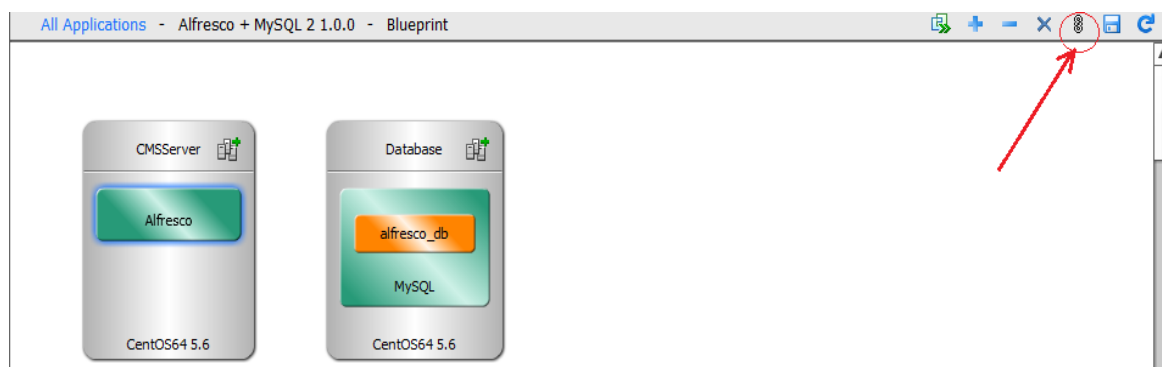
Save Cancel

7. Scroll down until you see **mysql\_db\_password** property. Double click this value
8. Check the third radio button in the blueprint value and pick **Database:alfresco\_db:mysql\_db\_pass** from Bind to another property dropdown.

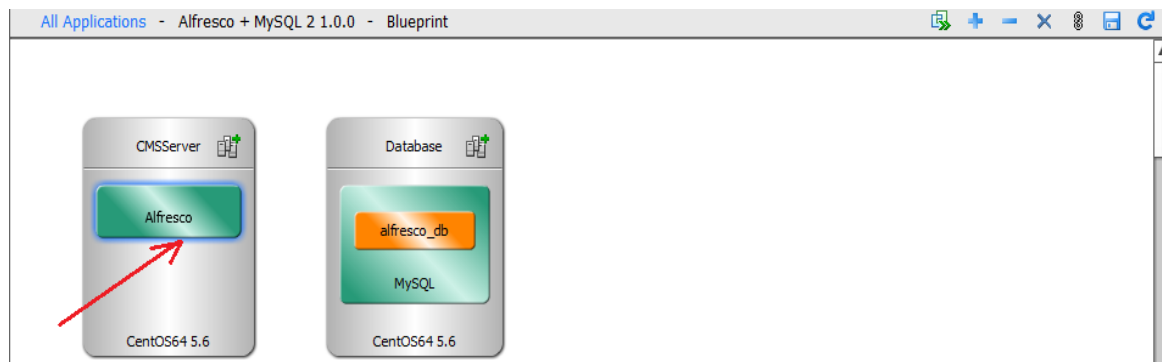


9. Similarly set blueprint value for **mysql\_db\_name** property to **Database:alfresco\_db:mysql\_db** , for **mysql\_db\_username** to **Database:alfresco\_db:mysql\_db\_user** and for **mysql\_server\_ip** to **Database:ip**
10. Get the mysql connector (mysql-connector-java-5.0.8.tar.gz) from mysql website and copy it to ftp/http/nfs server
11. Scroll down to see **mysql\_connector** property. Double click this value.

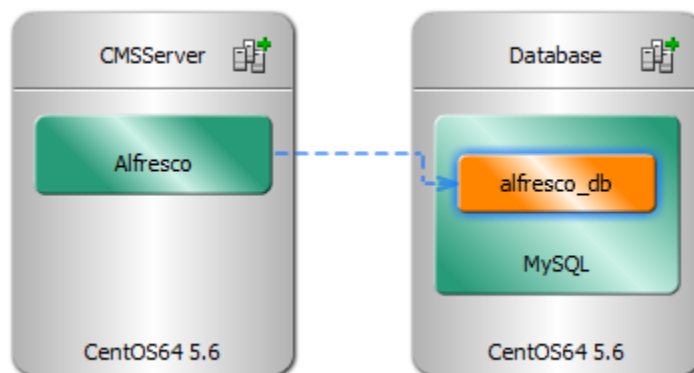
12. Check the second radio button in the blueprint value and type the network location of the mysql connector. For eg for ftp it will be ftp://<server-ip>/path-to-mysql-connector/ mysql-connector-java-\*.tar.gz .
13. Get the alfresco-enterprise 4.0.1 installer (**alfresco-enterprise-4.0.1-installer-linux-x64.bin**) and copy it to ftp/http/nfs server.(You need to contact alfresco to get licensed copy)
14. Check the second radio button in the blueprint value and type the network location of the alfresco installer. For eg for ftp it will be ftp://<server-ip>/path-to-alfresco-installer/ alfresco-enterprise-4.0.1-installer-linux-x64.bin.
15. Scroll down to see **installer\_url** property. Double click this value.
16. Scroll down to see **alfresco\_admin\_password** property. Double click this value.
17. Check the second radio button in the blueprint value and type password that you want for alfresco administrator. Remember this password.
18. Save the blueprint.
19. Now link Alfresco component on CMSServer node to alfresco\_db component on Database node. The way to do this as follows :
  - a. Click on the link icon.



b. Click on **Alfresco** component



c. And then click on the **alfresco\_db** component. You will see a link drawn between the two.



20. Save the blueprint.

21. Click on All Applications link. Click Save.

22. You should see this application in the Application list.

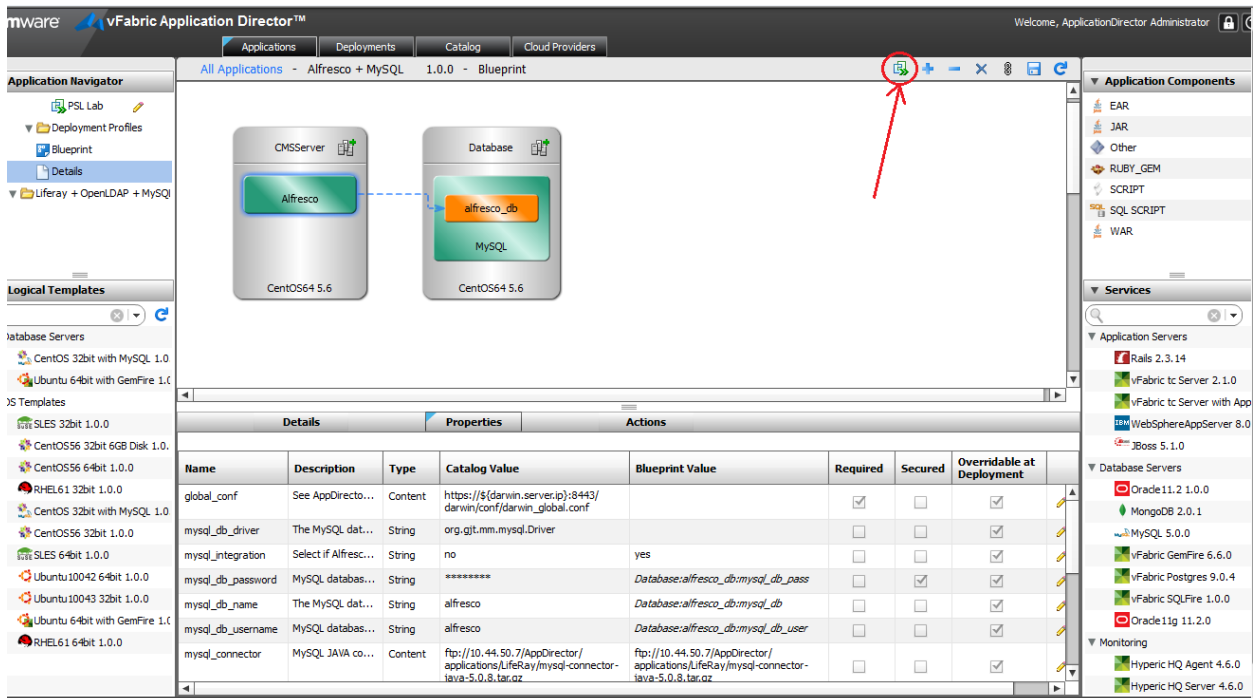
23. You can stop or continue to deploy the application.

## Deploying the Alfresco application

1. Login to the Application Director UI with a user that had deploy rights.
2. Click on **Manage Applications**
3. Select Alfresco+MySQL Application

Name	Description	Version	Description	Created On	Created By
Alfresco	PSL: Standalone Alfresco CMS with embedded da...	1.0.1	FINAL	2012-06-15	admin
Alfresco + MySQL	PSL: Alfresco with MySQL integration	1.0.1	FINAL	2012-07-13	admin
Alfresco + MySQL		1.0.0		2012-08-01	admin
Clustered Dukes Bank App	Clustered Dukes Bank App	2.1.0	Dukes Bank deployed as 3VMs with Clustered Ap...	2011-11-22	SYSTEM
Clustered Zimbra App	Clustered Zimbra Email App	7.1.0	Clustered Zimbra Email App with MTA, LDAP, Prox...	2011-11-22	SYSTEM
jPetStore	jPetStore App	1.0.0	jPetStore App using tc Server and SQLFire	2011-11-22	SYSTEM

4. Click on deploy icon on the blue print.



The screenshot shows the vFabric Application Director interface. The main window displays the 'Alfresco + MySQL' blueprint. The blueprint consists of two components: 'CMS Server' (Alfresco) and 'Database' (MySQL). The 'CMS Server' component is connected to the 'Database' component. The 'Database' component is labeled 'alfresco\_db' and 'MySQL'. The 'CMS Server' component is labeled 'Alfresco' and 'CentOS64 5.6'. The 'Database' component is labeled 'MySQL' and 'CentOS64 5.6'. A red arrow points to the deploy icon (a green square with a white 'd') in the top right corner of the blueprint view.

5. It will bring up the deployment profile window. Enter a deployment profile called **dev\_profile**. Click OK.
6. This will bring up the deploy wizard.
7. Select the radio button for the appropriate Deployment environment and click on the **Map Details** button.



8. Click **Next** and **Next** again to view the execution plan.
9. Click **Next** again and then click the **Deploy** button on the bottom button panel of the wizard.
10. 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.
11. Click on the refresh icon and check the deployment status. Note that it says "In Progress".

### **Review status of deployment**

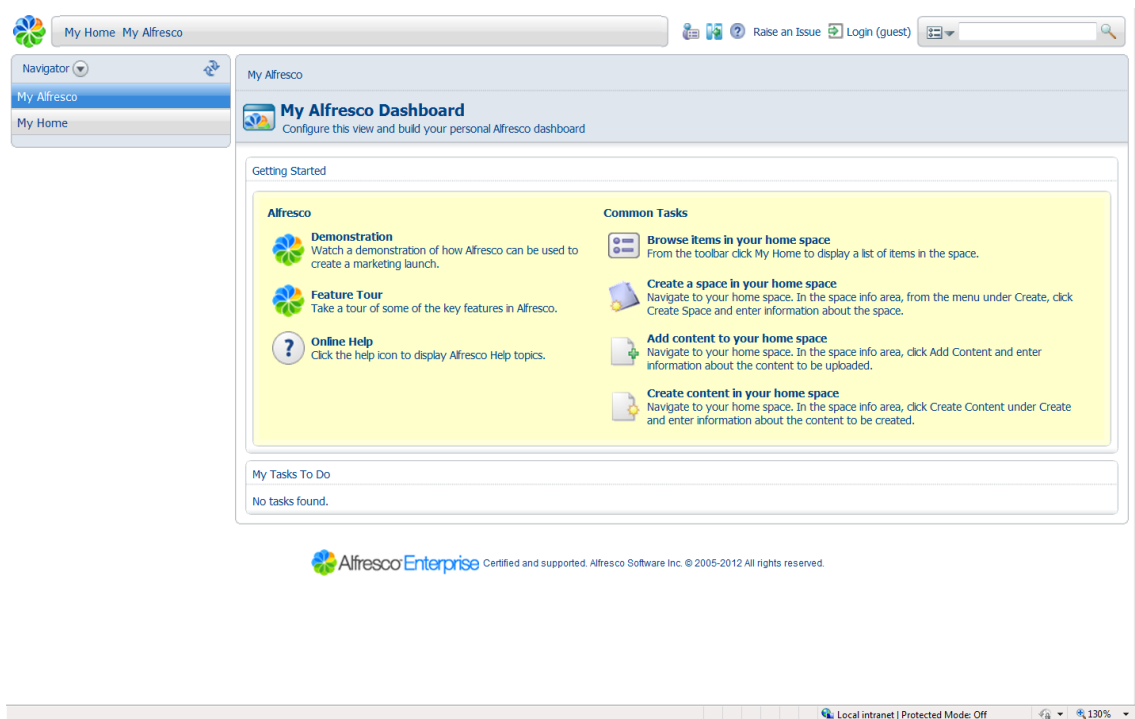
1. Track the status of deployment by refreshing frequently (click on the refresh icon on the deployment details page)

### **Verify Smoke test passed**

1. Wait until the deployment status is reported as Deployed Successfully
2. Click on the **Execution plan**
3. Click on the execution plan to see green status marks on each task

### **Launch deployed application**

1. Click back on the Details page to copy the CMSServer IP from the VM table. You will need these to launch the app
2. Go to browser and type: http://< CMSServer IP >:8080/alfresco
3. Login as user "admin" and password you provided in step 39. This should launch the alfresco.



My Home My Alfresco

Navigator

- My Alfresco
- My Home

My Alfresco

### My Alfresco Dashboard

Configure this view and build your personal Alfresco dashboard

Getting Started

**Alfresco**

**Demonstration**  
Watch a demonstration of how Alfresco can be used to create a marketing launch.

**Feature Tour**  
Take a tour of some of the key features in Alfresco.

**Online Help**  
Click the help icon to display Alfresco Help topics.

**Common Tasks**

**Browse items in your home space**  
From the toolbar click My Home to display a list of items in the space.

**Create a space in your home space**  
Navigate to your home space. In the space info area, from the menu under Create, click Create Space and enter information about the space.

**Add content to your home space**  
Navigate to your home space. In the space info area, click Add Content and enter information about the content to be uploaded.

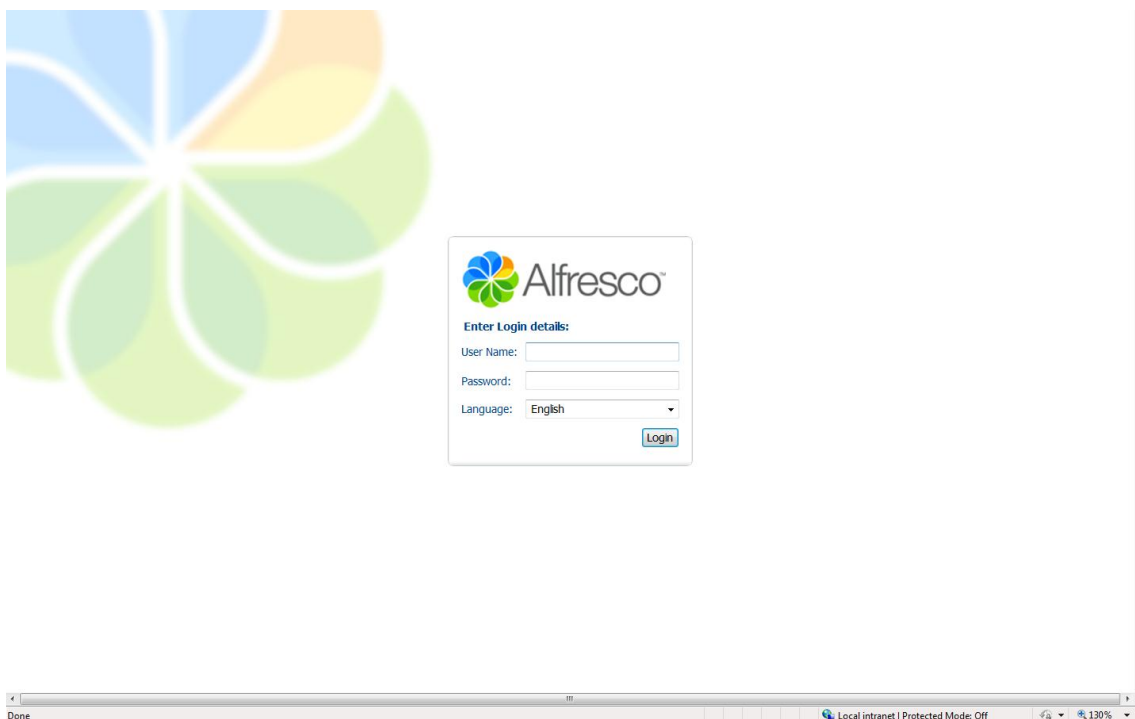
**Create content in your home space**  
Navigate to your home space. In the space info area, click Create Content under Create and enter information about the content to be created.

My Tasks To Do

No tasks found.

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Local intranet | Protected Mode: Off



Alfresco

Enter Login details:

User Name:

Password:

Language:

Login

Done

Local intranet | Protected Mode: Off