



# IVSP (Client Proxy) Installation and Configuration Guide

## Overview

### Introduction

This client proxy deployment document contains the information required to deploy OVA and execute the scripts inside the nodes.

### Purpose

You can do the following using this document:

- Deploy OVA templates in Vsphere
- Configure the nodes
- Run the scripts on all the nodes
- Know the right parameters to be keep available.

### Audience

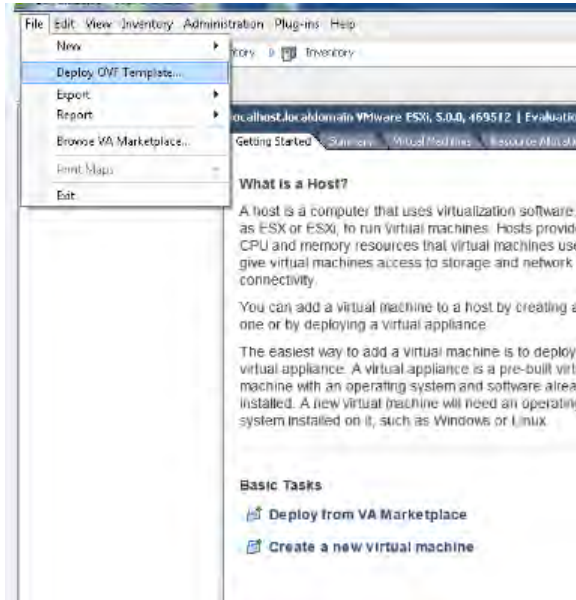
This document was written for headend technicians. Field service engineers and Cisco Services engineers may also find the information in this document helpful.

### Document Version

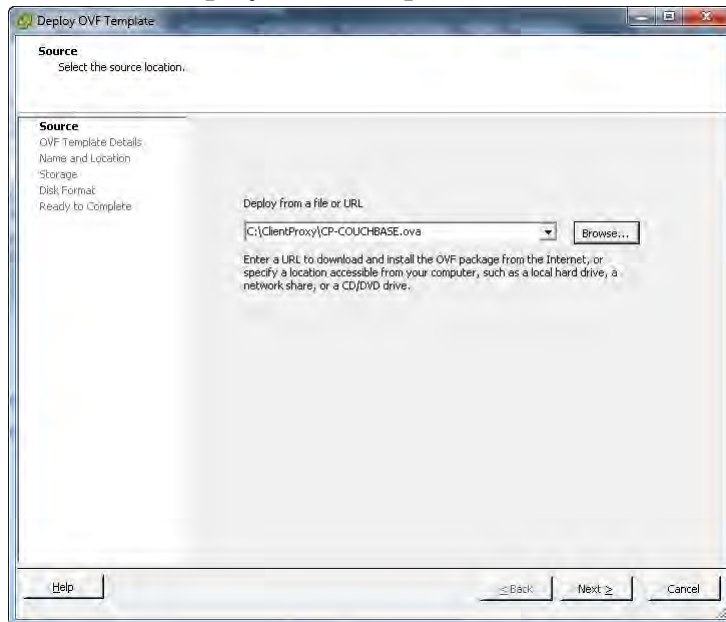
This is the first formal release of this document.

## Deploying OVA

- 1 Log into the server using the VSphere client.

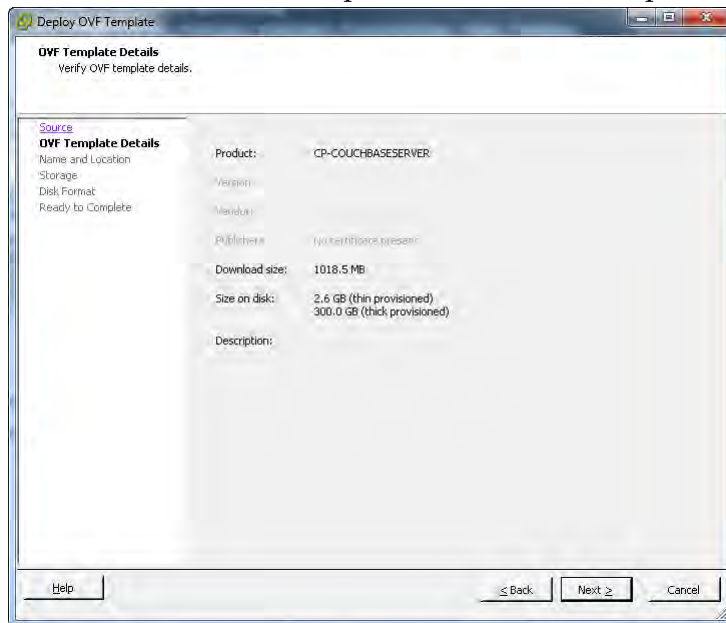


- 2 Click **File > Deploy OVF Template**. The Source screen opens.

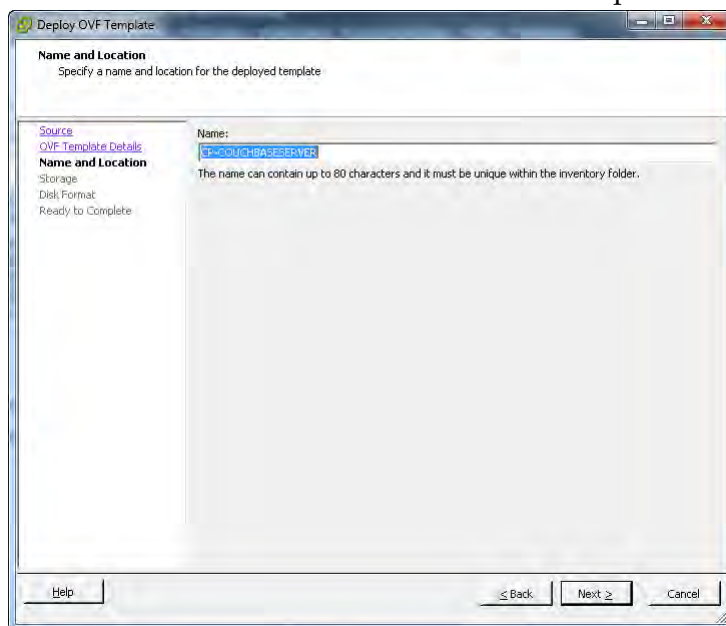


- 3 Browse to select the **CP\_COUCHBASE** OVA from to deploy the couchbase server database node.

- Click **Next**. The OVF Template Details window opens.



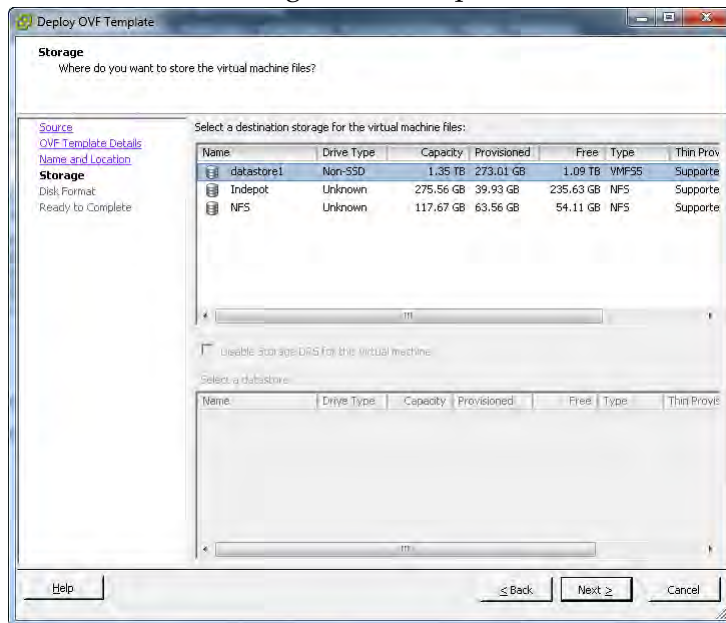
- Verify the details on the screen.
- Click **Next**. The Name and Location window opens.



- Type CP-COUCHBASESERVER for the **Name**.

## Deploying OVA

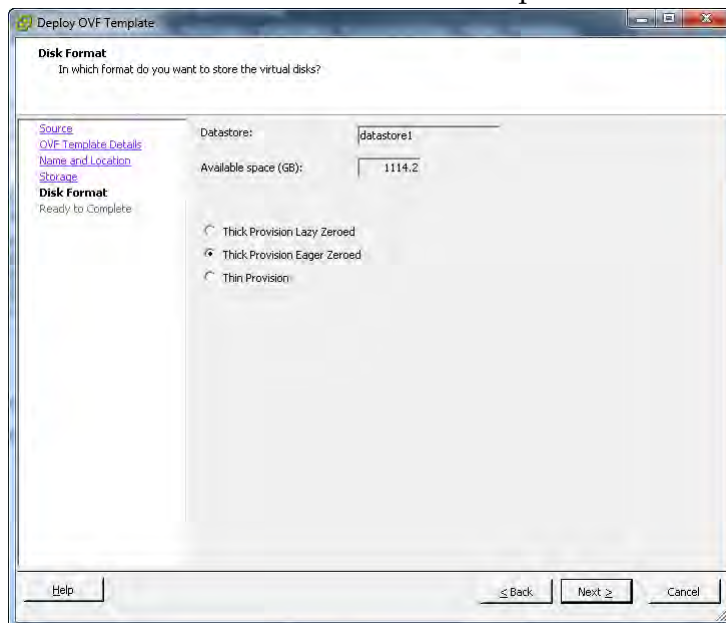
- Click **Next**. The Storage window opens.



- Select **datastore1** for the VM storage.

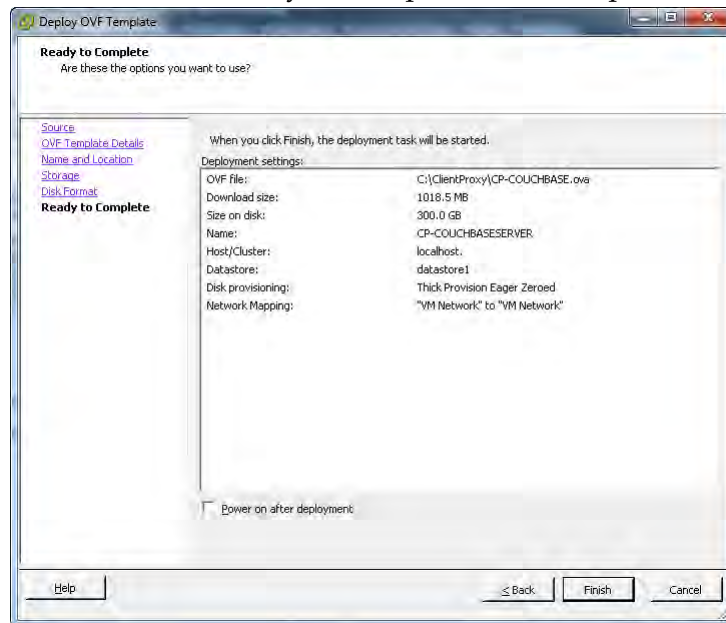
**Example:** If you have RAID configured for more than one datastore, you can use datastore2, etc., if the space is not available on datastore1.

- Click **Next**. The Disk Format window opens.



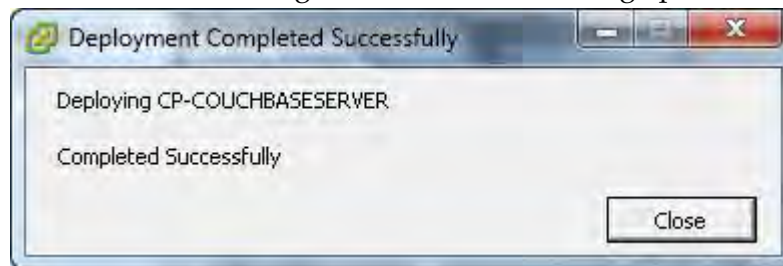
- Click the **Thick Provision Eager Zeroed** option.

12 Click **Next**. The Ready to Complete window opens.



13 Verify the information. If you need to change any of the information, click **Back** to scroll through the screens.

14 Click **Finish**. A message similar to the following opens.



15 Click **Close**.

16 Open the console and power on the CP-COUCHBASESERVER host.

17 Repeat this procedure to deploy these additional hosts, substituting the appropriate names where required:

- CP-APACHE
- CP-JBOSS\_SLAVE\_[X]

**Note:** All of the JBOSS\_SLAVE hosts use the same OVF file.

## Configure the Database Node

### Before You Begin

Before you begin, you need the following information:

#### before you begin details configure database node

S. No.	Parameter	Example
1	Couchbase Server IP Address	xx.xx.xx.xx
2	Couchbase Server IP Subnet Mask	xx.xx.xx.xx
3	Couchbase Server IP Default Gateway	xx.xx.xx.xx
4	Couchbase Server Host Name	Host1
5	Couchbase Server Domain Name (optional)	example.com

### Configuring the Database Node

- 1 Log into the server as root.
- 2 Run the script `cbsetup.sh (/clpro/cbsetup.sh)`.

```
Red Hat Enterprise Linux Server release 6.4 (Santiago)
Kernel 2.6.32-358.el6.x86_64 on an x86_64

localhost login: root
Password:
Last login: Thu Feb  6 11:33:39 on tty1
[root@localhost ~]# cd /clpro/
[root@localhost clpro]# pwd
/clpro
[root@localhost clpro]# ./cbsetup.sh _
```

- 3 Select one of the following options:
  - a Type 1 to set up the Couchbase server.

```
[root@localhost clpro]# ./cbsetup.sh

 1) Couchbase Server Setup
 2) Modify Server Setup
 3) Exit
(Your Choice: 1 or 2 or 3 ):
1
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
couchbaseserver1
Enter Domain Name of this Host/Node (Optional):

Confirm the parameters entered are correct (y/n):
y_
```

**Note:** If the parameters are incorrect, type `n` to exit the script.

```

Bringing up loopback interface:          [ OK ]
Bringing up interface eth0:             [ OK ]
Preparing...                            ##### [100%]
Minimum RAM required : 4 GB
System RAM configured : 16333852 kB

Minimum number of processors required : 4 cores
Number of processors on the system : 8 cores

1:couchbase-server ##### [100%]
Starting couchbase-server[ OK ]

You have successfully installed Couchbase Server.
Please browse to http://couchbaseserver1:xxxx/ to configure your server.
Please refer to http://couchbase.com for additional resources.

Please note that you have to update your firewall configuration to
allow connections to the following ports: xxxxx, xxxxx, xxxxx, xxxxx,
xxxx, xxxxx and from xxxxx to xxxxx.

By using this software you agree to the End User License Agreement.
See /opt/couchbase/LICENSE.txt.

Couchbase Server Initial Configuration Completed Successfully .....
[root@localhost clpro]# _

```

is the

couchbase port number here OK to give out to the public? Along with the list of ports below it?

**b** Type 2 to modify the Couchbase server.

```

1) Couchbase Server Setup
2) Modify Server Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
2

1) Couchbase Modification
2) Exit
(Your Choice: 1 or 2 ):
1

Starting IP Configuration .....
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
couchbasedbserver
Enter Domain Name of this Host/Node (Optional):

Confirm the parameters entered are correct (y/n):
y_

```

**Notes:**

- If the parameters are incorrect, type `n` to exit the script.
- After a modification, you must manually add the IP and host name under `/etc/hosts`.

**c** Type 3 to exit the script.

```

[root@localhost clpro]# pwd
/clpro
[root@localhost clpro]# ./cbsetup.sh

1) Couchbase Server Setup
2) Modify Server Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
3
No Changes Made - Script Exit .....
[root@localhost clpro]# _

```

**4** Add the following HOSTNAME entries along with their IP ADDRESS in the `/etc/hosts` file:

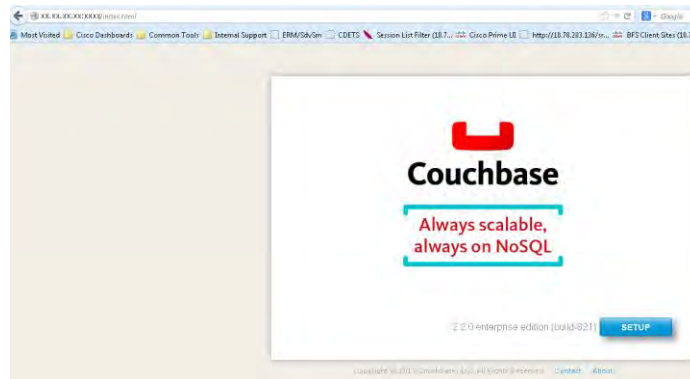
- jbossmaster
- jbossslave1

## Configure the Database Node

- jbossslave2

## Configuring Couchbase

- 1 Open a web browser and go to the following URL:  
`http://[Couchbase host IP address]: <port>/index.html`



- 2 Click **Setup**.



- 3 Update the **Hostname** field. Leave the other fields at their default values.
- 4 Click **Next**.





- 5 Do **not** select a default Couchbase bucket and click **Next**.

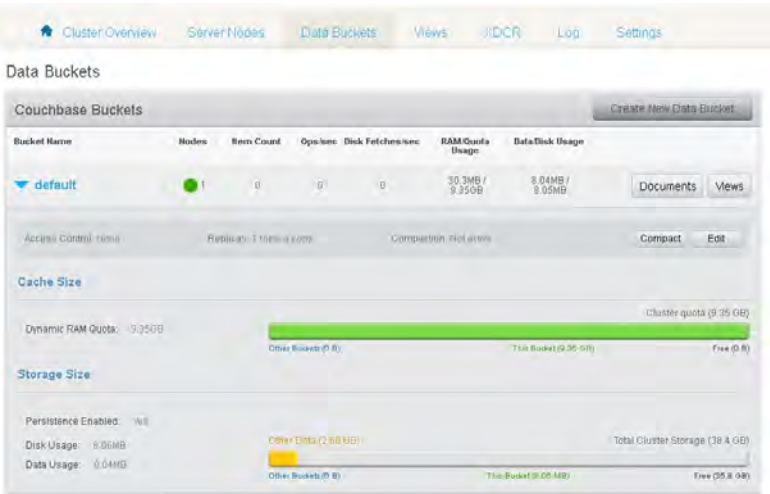
- 6 Keep the default bucket configuration and click **Next**.

- 7 Uncheck the **Enable software update notifications** options.  
 8 Accept the **terms and conditions**.  
 9 Click **Next**.

- 10 Enter the Administrator **Username** and **Password**.  
**Note:** Contact your account representative for the default Username/Password configuration.

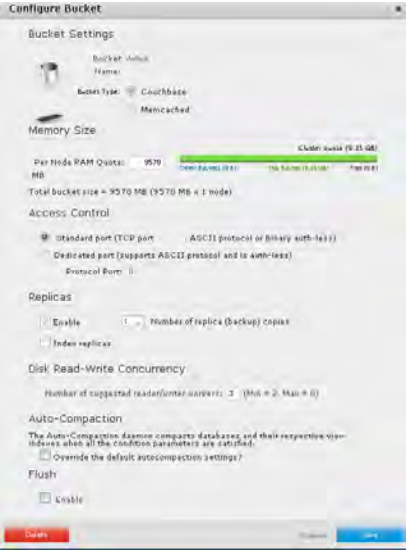
Configure the Database Node

11 Click Next.



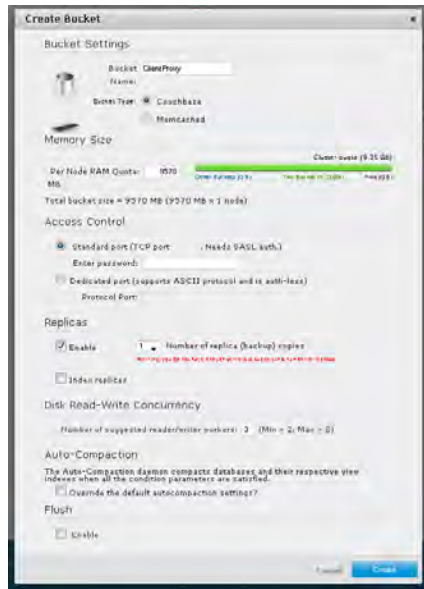
12 To create the preferred data bucket, click the **Data Buckets** tab on the top menu.

13 Click the default bucket and click **Edit**.



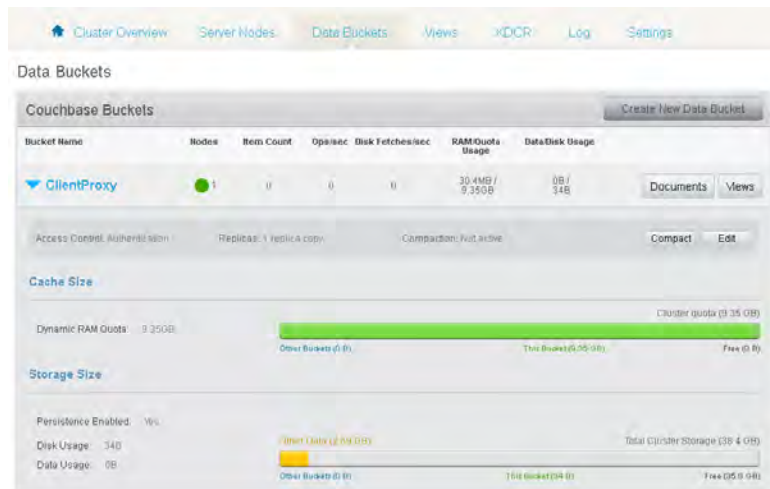
14 Delete the default bucket.

15 Click **Create New Data Bucket**.



16 Type **ClientProxy** as the **Bucket name**.

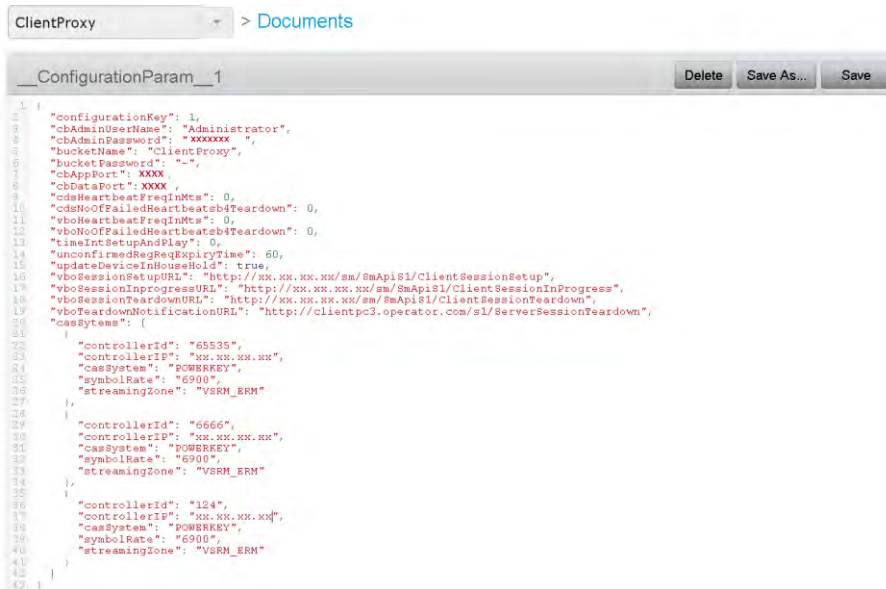
17 Click **Create**.



18 Click **Documents**.

## Configure the Database Node

- 19 Create a new document with the name `_ConfigurationParam_1` with the following values as shown on the screen below.



The screenshot shows a MongoDB document editor interface. At the top, there is a breadcrumb navigation showing 'ClientProxy' and '> Documents'. Below this, the document name is '\_ConfigurationParam\_1'. There are three buttons: 'Delete', 'Save As...', and 'Save'. The main area contains a JSON document with the following structure:

```
1 {
2   "configurationKey": 1,
3   "cbAdminUserName": "Administrator",
4   "cbAdminPassword": "XXXXXX",
5   "bucketName": "clientProxy",
6   "bucketPassword": "-",
7   "cbAppPort": XXXX,
8   "cbDataPort": XXXX,
9   "cdsHeartbeatFreqInMts": 0,
10  "cdsNoOfFailedHeartbeats4Teardown": 0,
11  "vboHeartbeatFreqInMts": 0,
12  "vboNoOfFailedHeartbeats4Teardown": 0,
13  "timeIntSetupAndPlay": 0,
14  "unconfirmedRegReqExpiryTime": 60,
15  "updateDeviceInHouseHold": true,
16  "vboSessionSetupURL": "http://xx.xx.xx.xx/sm/SmApiS1/ClientSessionSetup",
17  "vboSessionInProgressURL": "http://xx.xx.xx.xx/sm/SmApiS1/ClientSessionInProgress",
18  "vboSessionTeardownURL": "http://xx.xx.xx.xx/sm/SmApiS1/ClientSessionTeardown",
19  "vboTeardownNotificationURL": "http://clientpc3.operator.com/s1/ServerSessionTeardown",
20  "casSystems": [
21    {
22      "controllerId": "65535",
23      "controllerIP": "xx.xx.xx.xx",
24      "casSystem": "POWERKEY",
25      "symbolRate": "6900",
26      "streamingZone": "VSRM_ERM"
27    },
28    {
29      "controllerId": "6666",
30      "controllerIP": "xx.xx.xx.xx",
31      "casSystem": "POWERKEY",
32      "symbolRate": "6900",
33      "streamingZone": "VSRM_ERM"
34    },
35    {
36      "controllerId": "124",
37      "controllerIP": "xx.xx.xx.xx",
38      "casSystem": "POWERKEY",
39      "symbolRate": "6900",
40      "streamingZone": "VSRM_ERM"
41    }
42  ]
43 }
```

**Note:** Modify the VBO and Controller configuration details as applicable.

# Configure the Apache and JBOSS Master Nodes

## Before You Begin

Before you begin, you need the following information:

before you begin details configure apache and jboss

S. No.	Parameter	Example
1	Apache Server IP Address	xx.xx.xx.xx
2	Apache Server IP Subnet Mask	xx.xx.xx.xx
3	Apache Server IP Default Gateway	xx.xx.xx.xx
4	Apache Server Host Name	Host1
5	Apache Server Domain Name (optional)	example.com
6	Couchbase Server IP Address	xx.xx.xx.xx
7	Multicast IP Address	xx.xx.xx.xx

## Configuring the Apache and JBOSS Master Node

- 1 Log into the server as root.
- 2 Run the jbmasetup.sh script (/clpro/jbmasetup.sh).

```

root@localhost ~]# cd /clpro/
root@localhost clpro# pwd
/clpro
root@localhost clpro# ./jbmasetup.sh _

```

- 3 Select one of the following options:
  - a Type 1 to setup the server. Provide input for the necessary parameters (examples provided below).

### Example 1:

```

root@localhost clpro# ./jbmasetup.sh

 1) Apache/JbossMater Server Setup
 2) Modify Server Setup
 3) Exit
(Your Choice: 1 or 2 or 3 ):
1
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
apache1
Enter Domain Name of this Host/Node (Optional):

Enter Couchbase Server IP Address :
xx.xx.xx.xx

```

## Configure the Apache and JBOSS Master Nodes

### Example 2:

```
Enter Couchbase Server IP Address :
xx.xx.xx.xx
Enter Jboss Multicast IP Address :
xx.xx.xx.xx

How Many Jboss Slave's are you going to use (1 or 2) :
2
Enter Jboss Slave 1 Hostname :
slave1
Enter Jboss Slave 2 Hostname :
slave2
Enter Jboss Master / Apache Server Hostname :
apache1
Added user 'slave1' to file '/opt/jboss/jboss-as-7.1.1.Final/standalone/configur
ation/mgmt-users.properties'
Added user 'slave1' to file '/opt/jboss/jboss-as-7.1.1.Final/domain/configuratio
n/mgmt-users.properties'
Added user 'slave2' to file '/opt/jboss/jboss-as-7.1.1.Final/standalone/configur
ation/mgmt-users.properties'
Added user 'slave2' to file '/opt/jboss/jboss-as-7.1.1.Final/domain/configuratio
n/mgmt-users.properties'

Confirm the parameters entered are correct (y/n):
_
```

**Note:** You must use the same multicast IP address for the Jboss and Jboss slave.

```
Confirm the parameters entered are correct (y/n):
y
Shutting down interface eth0: [ OK ]
Shutting down loopback interface: [ OK ]
Bringing up loopback interface: [ OK ]
Bringing up interface eth0: [ OK ]
Stopping httpd: [ OK ]
Starting httpd: [ OK ]
Stopping jboss-as: *** JBossAS process (2471) received TERM signal ***
Starting jboss-as: [ OK ]
[root@localhost clpro1# _
```

**Note:** If the parameters are incorrect, type n to exit the script.

- b Type 2 to modify the server setup.

```
[root@localhost clpro1# ./jbmssetup.sh

1) Apache/JbossMaster Server Setup
2) Modify Server Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
2

1) Apache Modification
2) Jboss Users Modification
3) Exit
(Your Choice: 1 or 2 or 3 ):
1
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
apache1
Enter Domain Name of this Host/Node (Optional):

Enter Couchbase Server IP Address :
xx.xx.xx.xx

Enter Jboss Multicast IP Address :
xx.xx.xx.xx
Configuration is in progress .....
Shutting down interface eth0: [ OK ]
Shutting down loopback interface: [ OK ]
Bringing up loopback interface: [ OK ]
Bringing up interface eth0: [ OK ]
Stopping httpd: [ OK ]
Starting httpd: [ OK ]
Stopping jboss-as: *** JBossAS process (3200) received TERM signal ***
Starting jboss-as: [ OK ]
[root@localhost clpro1# _
```

### Notes:

- The values in the screens are sample values. Do not use these values in your configuration.
- After modification, you must add the IP and Hostname under /etc/hosts.

c Modify the jboss users.

```

[root@localhost clpro1# ./jbmasetup.sh

 1) Apache/JbossMater Server Setup
 2) Modify Server Setup
 3) Exit
(Your Choice: 1 or 2 or 3 ):
2

 1) Apache Modification
 2) Jboss Users Modification
 3) Exit
(Your Choice: 1 or 2 or 3 ):
2

How Many Jboss Slave's are you going to use (1 or 2 ) :
2
Enter Jboss Slave 1 Hostname :
slave3
Enter Jboss Slave 2 Hostname :
slave4
Enter Jboss Master / Apache Server Hostname :
_

Enter Jboss Master / Apache Server Hostname :
apach4
Added user 'slave3' to file '/opt/jboss/jboss-as-7.1.1.Final/standalone/configur
ation/mgmt-users.properties'
Added user 'slave3' to file '/opt/jboss/jboss-as-7.1.1.Final/domain/configuratio
n/mgmt-users.properties'
Added user 'apach4' to file '/opt/jboss/jboss-as-7.1.1.Final/standalone/configur
ation/mgmt-users.properties'
Added user 'apach4' to file '/opt/jboss/jboss-as-7.1.1.Final/domain/configuratio
n/mgmt-users.properties'
[root@localhost clpro1# _

```

d Type 3 to exit the script.

```

[root@localhost clpro1# ./jbmasetup.sh

 1) Apache/JbossMater Server Setup
 2) Modify Server Setup
 3) Exit
(Your Choice: 1 or 2 or 3 ):
2

 1) Apache Modification
 2) Jboss Users Modification
 3) Exit
(Your Choice: 1 or 2 or 3 ):
3

Script Exit !!!!!!!!!!!
[root@localhost clpro1# _

[root@localhost clpro1# ./jbmasetup.sh

 1) Apache/JbossMater Server Setup
 2) Modify Server Setup
 3) Exit
(Your Choice: 1 or 2 or 3 ):
3

Script Terminated . No Changes Made .....
[root@localhost clpro1# _

```

4 Add the following HOSTNAME entries along with their IP ADDRESS in the /etc/hosts file:

- jbossmaster
- jbossslave1
- jbossslave2

5 After the /etc/hosts entry has been made, you have to start jboss using service jbossasmaster start.

## Configure the JBOSS Slave Node 1

### Before You Begin

Before you begin, you need the following information:

before you begin details configure jboss slave node 1

S. No.	Parameter	Example
1	JBOSS Slave Node 1 IP Address	xx.xx.xx.xx
2	JBOSS Slave Node 1 IP Subnet Mask	xx.xx.xx.xx
3	JBOSS Slave Node 1 IP Default Gateway	xx.xx.xx.xx
4	JBOSS Slave Node 1 Host Name	Host1
5	JBOSS Slave Node 1 Domain Name (optional)	example.com
6	Couchbase Server IP Address	xx.xx.xx.xx
7	Apache Server IP Address	xx.xx.xx.xx
8	Multicast IP Address	xx.xx.xx.xx
9	JBOSS Slave Name	Slave1

### Configuring the JBOSS Slave Node 1

- 1 Log into the server as root.
- 2 Run the jbslasetup.sh script (/clpro/jbslasetup.sh) and provide the necessary values.

```
Red Hat Enterprise Linux Server release 6.4 (Santiago)
Kernel 2.6.32-358.el6.x86_64 on an x86_64

localhost login: root
Password:
Last login: Thu Feb  6 13:46:16 from xx.xx.xx.xx
[root@localhost ~]# cd /clpro/
[root@localhost clpro]# pwd
/clpro
[root@localhost clpro]# ls
jbslasetup.sh
[root@localhost clpro]# _
```

- 3 Select one of the following options:



- a Type 1 to set up the jboss slave server.

```

[root@localhost clpro]# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
1
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
jbossslave1
Enter Domain Name of this Host/Node (Optional):

Enter Couchbase Server IP Address :
xx.xx.xx.xx
Enter Apache Server IP Address :
xx.xx.xx.xx
Enter Jboss Multicast IP Address :
xx.xx.xx.xx

Enter Jboss Multicast IP Address :
xx.xx.xx.xx
Enter Jboss Slave Name (Ex:slave1) :
jbossslave1

Confirm the parameters entered are correct (y/n):
y_

Shutting down loopback interface:          [ OK ]
Bringing up loopback interface:            [ OK ]
Bringing up interface eth0:                [ OK ]
Starting jboss-as:                          [ OK ]
All the necessary Jboss Slave Configuration Done ....
[root@localhost clpro]# _

```

The hostname of the slave should match the username given during the configuration of master.

- b Type 2 then type 1 to modify the jboss slave server.

```

(Your Choice: 1 or 2 or 3 ):
2
1) Jboss Slave Modification
2) Network Modification
3) Exit
(Your Choice: 1 or 2 or 3 ):
1
Enter the necessary values for modification.....
Enter Couchbase Server IP Address :
xx.xx.xx.xx
Enter Apache Server IP Address :
xx.xx.xx.xx
Enter Jboss Multicast IP Address :
xx.xx.xx.xx
Enter Jboss Slave Name (Ex:slave1) :
jslave1

Confirm the parameters entered are correct (y/n):
y
Stopping jboss-as:                          [ OK ]
Starting jboss-as:                          [ OK ]
All the necessary Jboss Slave Configuration Done ....
[root@localhost clpro]# _

```

## Configure the JBOSS Slave Node 1

- c Type 2 then type 2 to make network modifications.

```
root@localhost clpr01# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
2
1) Jboss Slave Modification
2) Network Modification
3) Exit
(Your Choice: 1 or 2 or 3 ):
2
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
jbslave1_

Confirm the parameters entered are correct (y/n):
y
Shutting down interface eth0: [ OK ]
Shutting down loopback interface: [ OK ]
Bringing up loopback interface: [ OK ]
Bringing up interface eth0: [ OK ]
root@localhost clpr01# _
```

**Note:** After modification, you must add the IP and Hostname in the /etc/hosts file.

- d Type 2 then 3 to exit the script.

```
root@localhost clpr01# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
2
1) Jboss Slave Modification
2) Network Modification
3) Exit
(Your Choice: 1 or 2 or 3 ):
3
Script Exit !!!!!!!!!!!
root@localhost clpr01# _

root@localhost clpr01# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
3
Script Exited without any modification .....
root@localhost clpr01# _
```

- 4 Add the following HOSTNAME entries along with their IP ADDRESS in the /etc/hosts file:
- jbossmaster
  - jbossslave2
  - couchbase
- 5 After the /etc/hosts entry has been made, you have to start the jboss using service jbossasslave start.

## Configure the JBOSS Slave Node 2

### Before You Begin

Before you begin, you need the following information:

before you begin details configure jboss slave node 2

S. No.	Parameter	Example
1	JBOSS Slave Node 2 IP Address	xx.xx.xx.xx
2	JBOSS Slave Node 2 IP Subnet Mask	xx.xx.xx.xx
3	JBOSS Slave Node 2 IP Default Gateway	xx.xx.xx.xx
4	JBOSS Slave Node 2 Host Name	Host1
5	JBOSS Slave Node 2 Domain Name (optional)	example.com
6	Couchbase Server IP Address	xx.xx.xx.xx
7	Apache Server IP Address	xx.xx.xx.xx
8	Multicast IP Address	xx.xx.xx.xx
9	JBOSS Slave Name	Slave2

### Configuring the JBOSS Slave Node 2

- 1 Log into the server as root.
- 2 Run the `jbslasetup.sh` script (`/clpro/jbslasetup.sh`) and provide the necessary values.

```

Red Hat Enterprise Linux Server release 6.4 (Santiago)
Kernel 2.6.32-358.el6.x86_64 on an x86_64

localhost login: root
Password:
Last login: Thu Feb  6 13:46:16 from xx.xx.xx.xx
[root@localhost ~]# cd /clpro/
[root@localhost clpro]# pwd
/clpro
[root@localhost clpro]# ls
jbslasetup.sh
[root@localhost clpro]# _

```

- 3 Select one of the following options:

## Configure the JBOSS Slave Node 2

- a Type 1 to set up the jboss slave server.

```
[root@localhost clpro1# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
1
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
jbossslave1
Enter Domain Name of this Host/Node (Optional):

Enter Couchbase Server IP Address :
xx.xx.xx.xx
Enter Apache Server IP Address :
xx.xx.xx.xx
Enter Jboss Multicast IP Address :
xx.xx.xx.xx

Enter Jboss Multicast IP Address :
xx.xx.xx.xx
Enter Jboss Slave Name (Ex:slave1) :
jbossslave1

Confirm the parameters entered are correct (y/n):
y_

Shutting down loopback interface: [ OK ]
Bringing up loopback interface: [ OK ]
Bringing up interface eth0: [ OK ]
Starting jboss-as: [ OK ]
All the necessary Jboss Slave Configuration Done .....
[root@localhost clpro1# _
```

The hostname of the slave should match the username given during the configuration of master.

- b Type 2 then type 1 to modify the jboss slave server.

```
(Your Choice: 1 or 2 or 3 ):
2
1) Jboss Slave Modification
2) Network Modification
3) Exit
(Your Choice: 1 or 2 or 3 ):
1
Enter the necessary values for modification.....
Enter Couchbase Server IP Address :
xx.xx.xx.xx
Enter Apache Server IP Address :
xx.xx.xx.xx
Enter Jboss Multicast IP Address :
xx.xx.xx.xx
Enter Jboss Slave Name (Ex:slave1) :
jslave1

Confirm the parameters entered are correct (y/n):
y
Stopping jboss-as: [ OK ]
Starting jboss-as: [ OK ]
All the necessary Jboss Slave Configuration Done .....
[root@localhost clpro1# _
```

- c Type 2 then type 2 to make network modifications.

```
[root@localhost clpro1# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
2

1) Jboss Slave Modification
2) Network Modification
3) Exit
(Your Choice: 1 or 2 or 3 ):
2
Enter IP Address of this Host/Node :
xx.xx.xx.xx
Enter Subnet Mask of this Host/Node :
xx.xx.xx.xx
Enter Default Gateway of this Host/Node :
xx.xx.xx.xx
Enter Hostname of this Host/Node :
jbslave1_

Confirm the parameters entered are correct (y/n):
y
Shutting down interface eth0:          [ OK ]
Shutting down loopback interface:      [ OK ]
Bringing up loopback interface:        [ OK ]
Bringing up interface eth0:            [ OK ]
[root@localhost clpro1# _
```

**Note:** After modification, you must add the IP and Hostname in the /etc/hosts file.

- d Type 2 then 3 to exit the script.

```
[root@localhost clpro1# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
2

1) Jboss Slave Modification
2) Network Modification
3) Exit
(Your Choice: 1 or 2 or 3 ):
3

Script Exit !!!!!!!!!
[root@localhost clpro1# _

[root@localhost clpro1# ./jbslasetup.sh
1) Jboss Slave Setup
2) Modify Jboss Slave Setup
3) Exit
(Your Choice: 1 or 2 or 3 ):
3
Script Exited without any modification .....
[root@localhost clpro1# _
```

- 4 Add the following HOSTNAME entries along with their IP ADDRESS in the /etc/hosts file:
- jbossmaster
  - jbossslave1
  - couchbase
- 5 After the /etc/hosts entry has been made, you have to start the jboss using service jbossasslave start.

## Installing ClientProxy RPM

- 1 Log into the JBOSS Master Node as root.
- 2 Download the client proxy: **RPM - ClientProxy-X.X.XXX-RELEASED.x86\_64.rpm**.
- 3 Uninstall any previous versions of the client proxy RPM.
  - a Type the following and press **Enter** to view the already installed client proxies on the system:

```
rpm -qa | grep ClientProxy
```
  - b Type the following and press **Enter** to delete the previous versions:

```
rpm -e [rpm name]
```

**Note:** If you manually deployed any client proxies using the JBOSS Management Console or the CLI, you must remove those proxies before continuing.
- 4 Type the following and press Enter to install the new RPM:

```
rpm -i --replacepkgs --replacefiles ClientProxy-X.X.XXX-RELEASED.x86_64.rpm
```



# Troubleshooting Guidelines

## Jboss Management User Creation

**Note:** This script is required to run only if there are any issues when creating Jboss management users when configuring the Apache nodes.

Use the following commands on jbossMaster node to create management users.

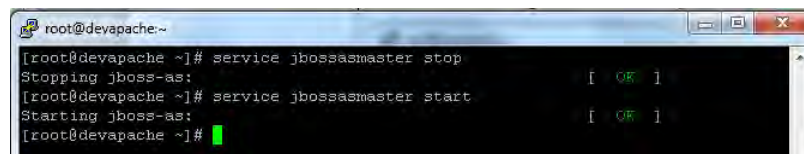
On the Apache server, go to the following location: /opt/jboss/jboss-as-7.1.1.Final/bin/

```
[root@devapache bin]# ./add-user.sh
What type of user do you wish to add?
a) Management User (management-users.properties)
b) Application User (application-users.properties)
(a) : a
Enter the details of the new user to add.
Scale (ManagementRealm) :
Username : devjboss1ave2
Password :
Re-enter Password :
About to add user 'devjboss1ave2' for realm 'ManagementRealm'
Is this correct y/n? yes
Added user 'devjboss1ave2' to file /opt/jboss/jboss-as-7.1.1.Final/standalone/configuration/management-users.properties
Added user 'devjboss1ave2' to file /opt/jboss/jboss-as-7.1.1.Final/domain/configuration/management-users.properties
[root@devapache bin]# pwd
/opt/jboss/jboss-as-7.1.1.Final/bin
```

**Note:** To allow the jboss master to authorize the slave nodes, the password for the jboss management user should be the default password (check with your account representative), and the management user name should match the host name.

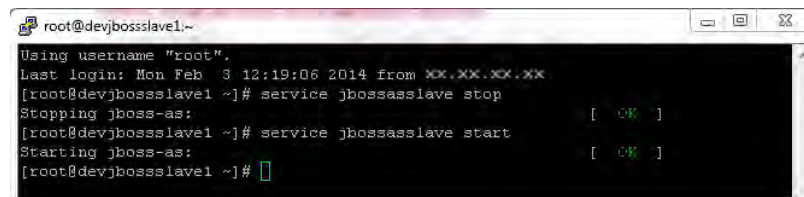
## Starting and Stopping the Jboss and Apache Servers

Use the following commands on the jbossMaster node to stop and start the jboss master.



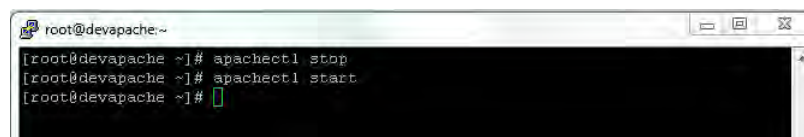
```
root@devapache:~
[root@devapache ~]# service jbossasmaster stop
Stopping jboss-as: [ OK ]
[root@devapache ~]# service jbossasmaster start
Starting jboss-as: [ OK ]
[root@devapache ~]#
```

Use the following command on jbossSlave nodes to stop and start jboss slave.



```
root@devjboss1ave1:~
Using username "root".
Last login: Mon Feb 3 12:19:06 2014 from xx.xx.xx.xx
[root@devjboss1ave1 ~]# service jbossasslave stop
Stopping jboss-as: [ OK ]
[root@devjboss1ave1 ~]# service jbossasslave start
Starting jboss-as: [ OK ]
[root@devjboss1ave1 ~]#
```

Use the following commands on the jbossMaster node to stop and start apache.



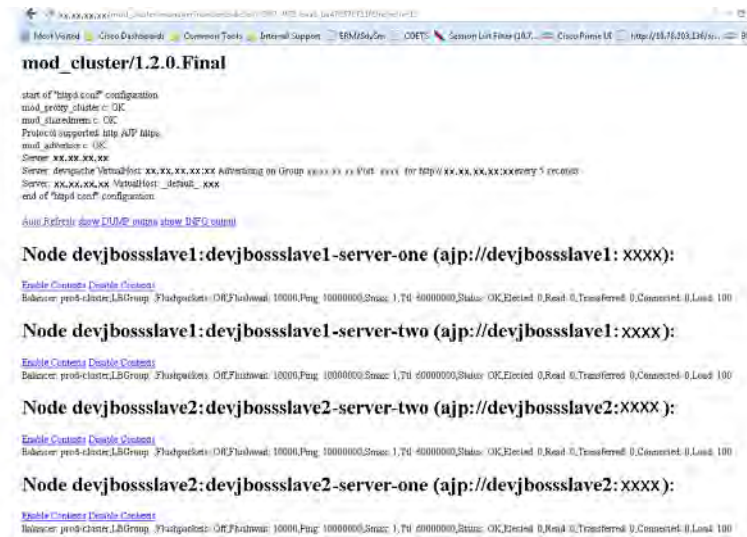
```
root@devapache:~
[root@devapache ~]# apachectl stop
[root@devapache ~]# apachectl start
[root@devapache ~]#
```



# Jboss and Apache Server Monitoring

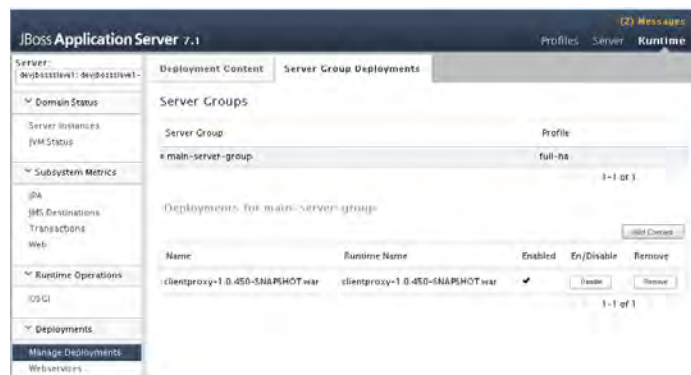
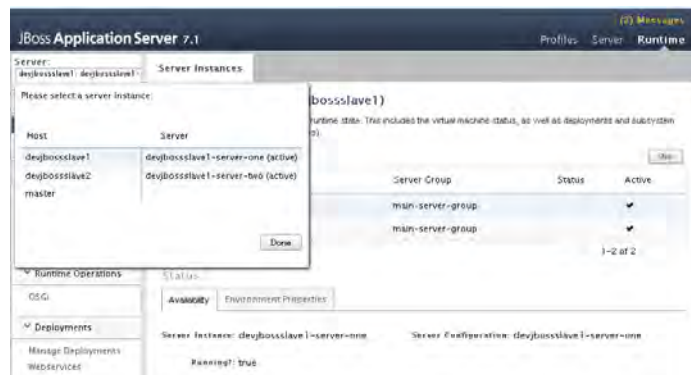
To monitor the clustering and load balancer status, use the following URL:

`http://[jbossMasterIP]/mod_cluster-manager`



To monitor and manage the jboss domain (jboss master and slave node) configuration and deployment status, use the following URL:

`http://[jbossMasterIP]: <port>/console/index.html`



## Server File Log Locations

Server Name	Log File Location	Description
Apache httpd	/var/log/httpd/access_log /var/log/httpd/error_log	Web server access and error log
Jboss Master	/var/log/jboss-as/console.log	Jboss master startup console log
Jboss Slave	/var/log/jboss-as/console.log	Jboss slave server log
	/opt/jboss/jboss-as-7.1.1.Final/domain/servers/devjbossslave1-server-one/log/server.log	Jboss slave server log
	/opt/jboss/jboss-as-7.1.1.Final/domain/servers/devjbossslave1-server-one/log/ClientProxyDebug.log	Client Proxy debug log
	/opt/jboss/jboss-as-7.1.1.Final/domain/servers/devjbossslave1-server-one/log/ClientProxyTrace.log	Client Proxy trace log

## For Information

### If You Have Questions

If you have technical questions, contact Cisco Services for assistance. Follow the menu options to speak with a service engineer.



#### **Americas Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA

<http://www.cisco.com>

Tel: 408 526-4000

800 553-6387

Fax: 408 527-0883

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. A listing of Cisco's trademarks can be found at [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks).

Third party trademarks mentioned are the property of their respective owners.

The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1009R)

Product and service availability are subject to change without notice.

© 2014 Cisco and/or its affiliates. All rights reserved.

August 2014

Part Number OL-31219-01