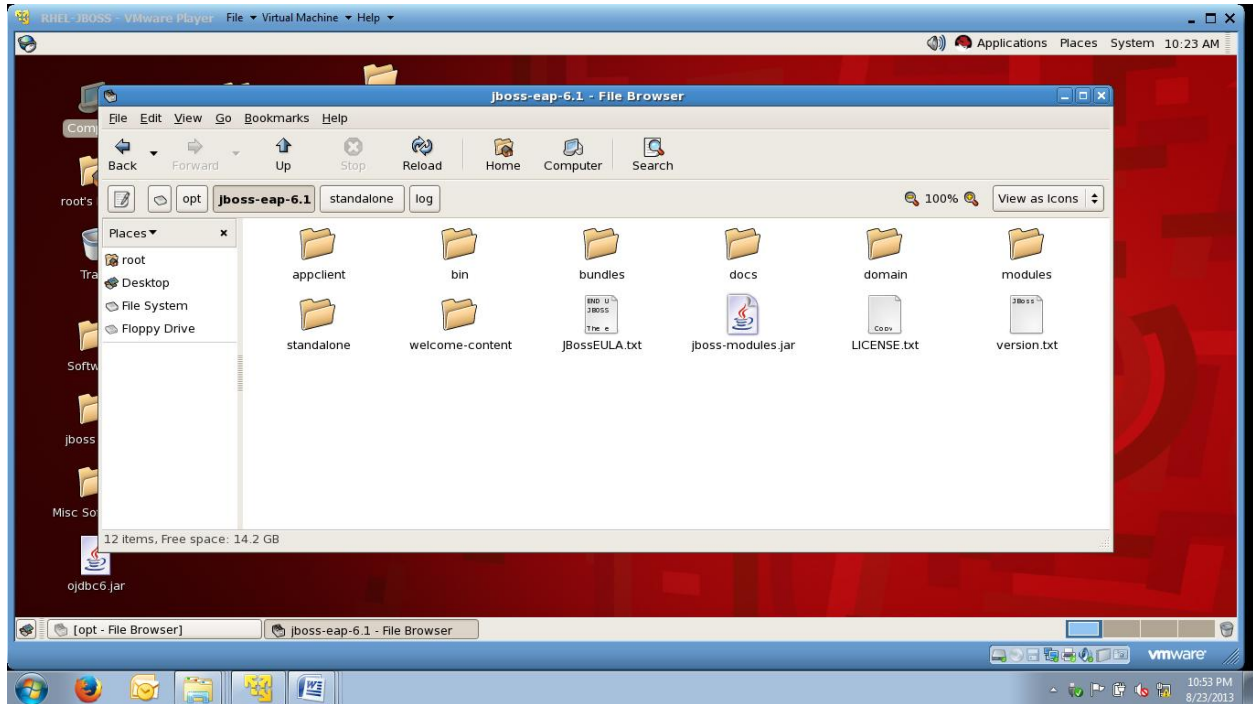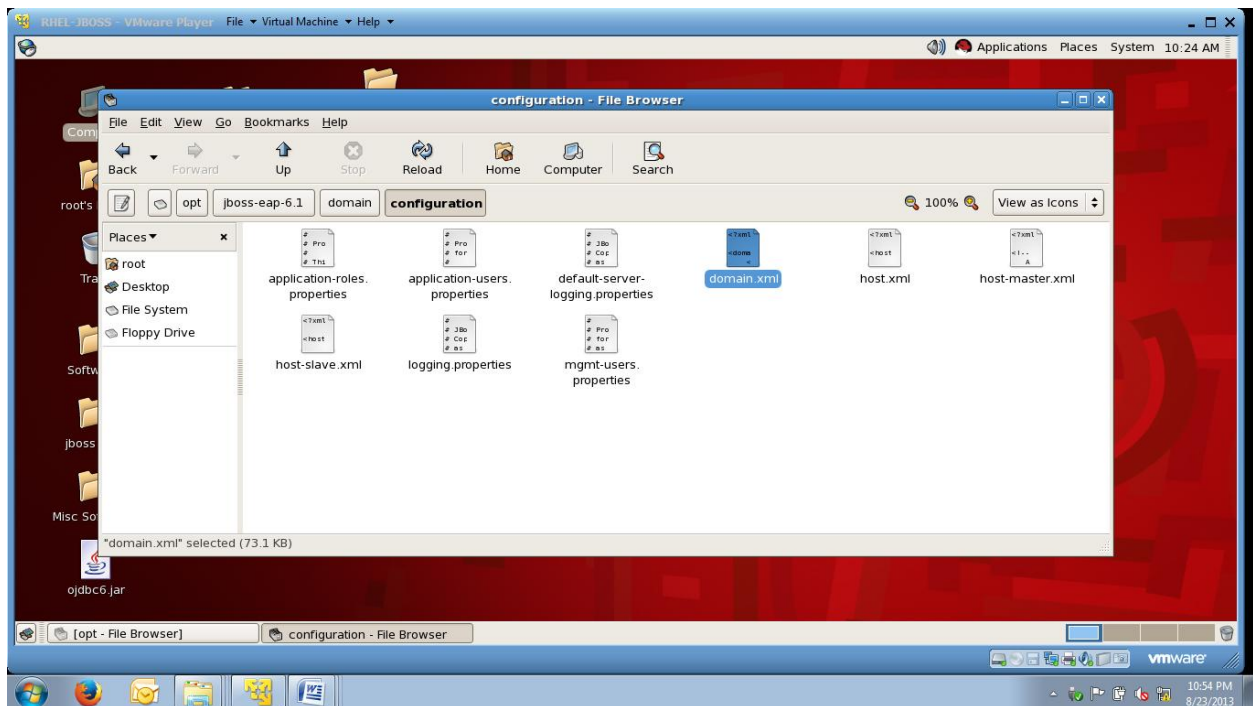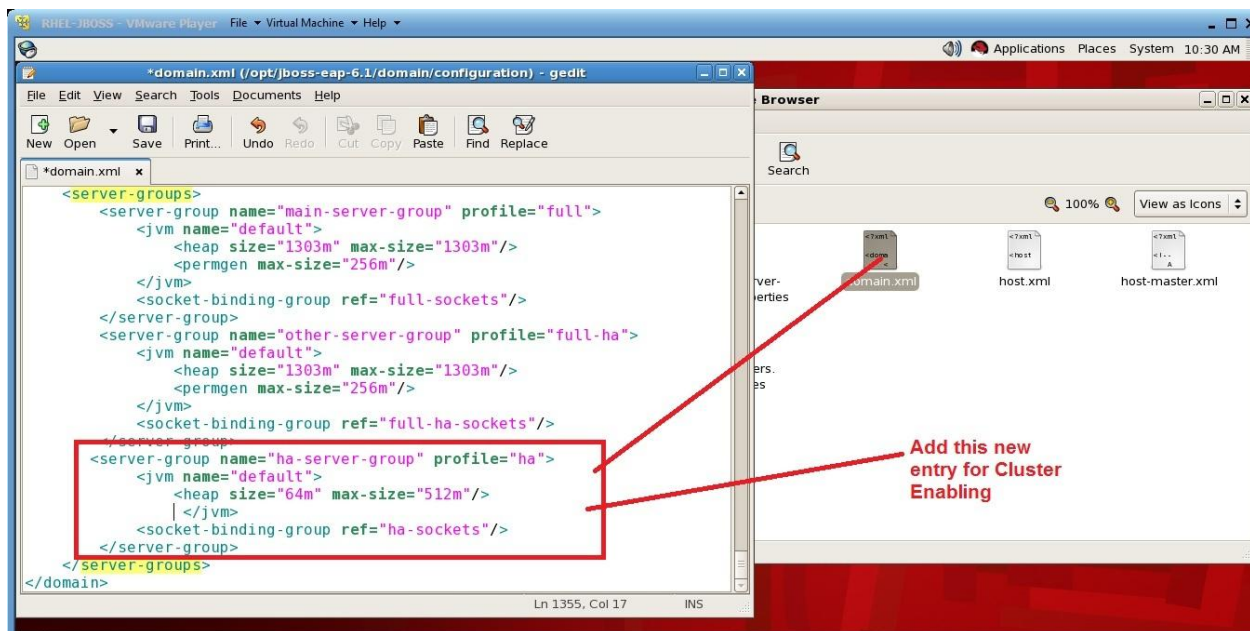## Creating cluster in JBoss EAP in domain mode
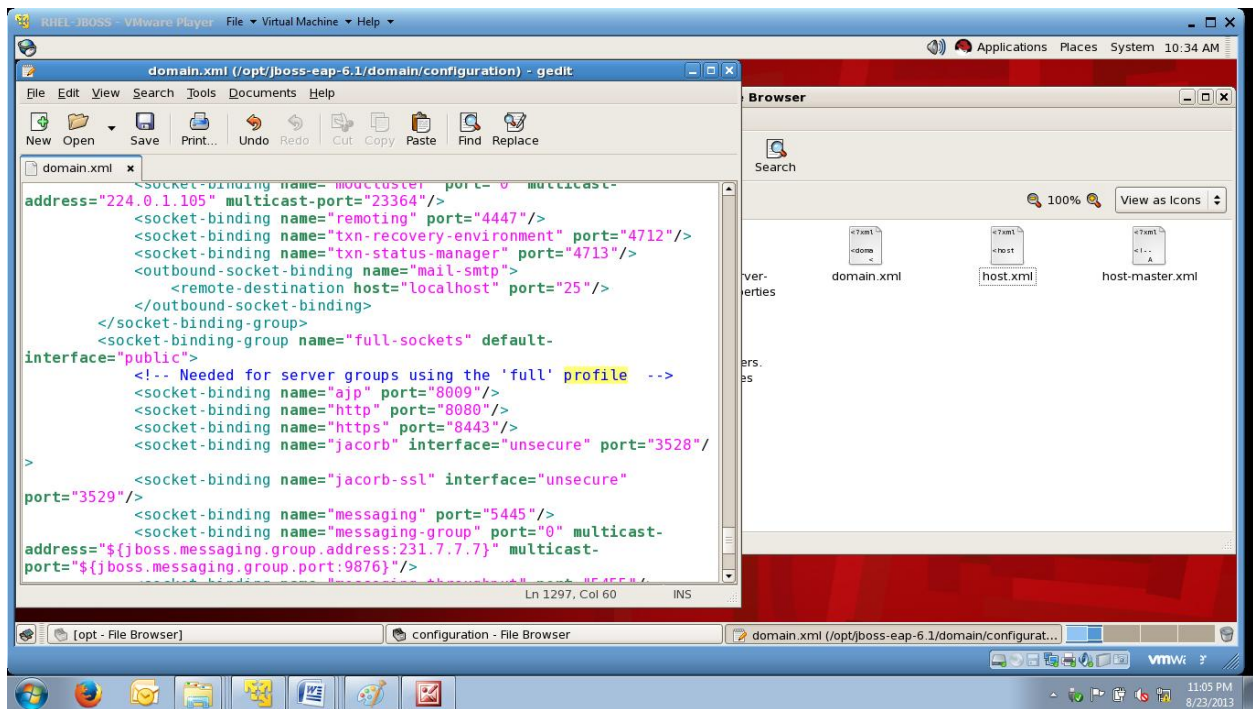

Goto domain/configuration/**domain.xml**" file make the below changes, which is just adding a new **server-group** (i.e. **ha-server-group**) which would be using **ha** profile and **ha-sockets** socket binding group, where **ha** is for **cluster enabled**.

Where:

1. **profile:** tells which type of profile is been used (i.e. web, messaging, cluster, full)
2. **socket-binding-group:** tells which all type of protocols is been used (i.e. web [http,ajp], messaging, jgroups [udp, tcp], full)
3. **server-group** : tells what **profile** is been used and what type of **sockets** is been used

After that you would have to make the below changes in "/opt/jboss-as-61.1.Final/domain/configuration/**host.xml**" file which is just adding two new JBoss nodes with the name **ha-server-1** and **ha-server-2** which are using the **ha-server-group** server group created in the pervious setp and making **this servers clustered enabled**
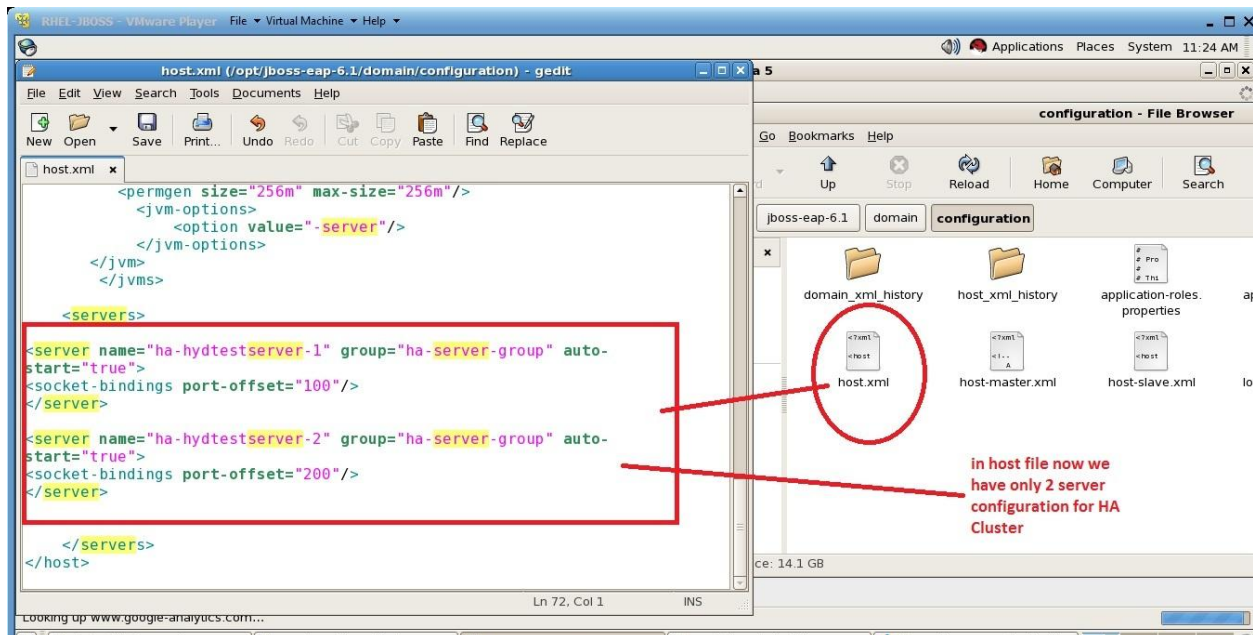
Note: You are giving unique **name** and **port offset** for these servers, as both the servers are running on the same box.

Port offset--------to increase the port nos

Create a **Management User** using the **add-user.sh** script as shown below. This is done so that we can access admin console.
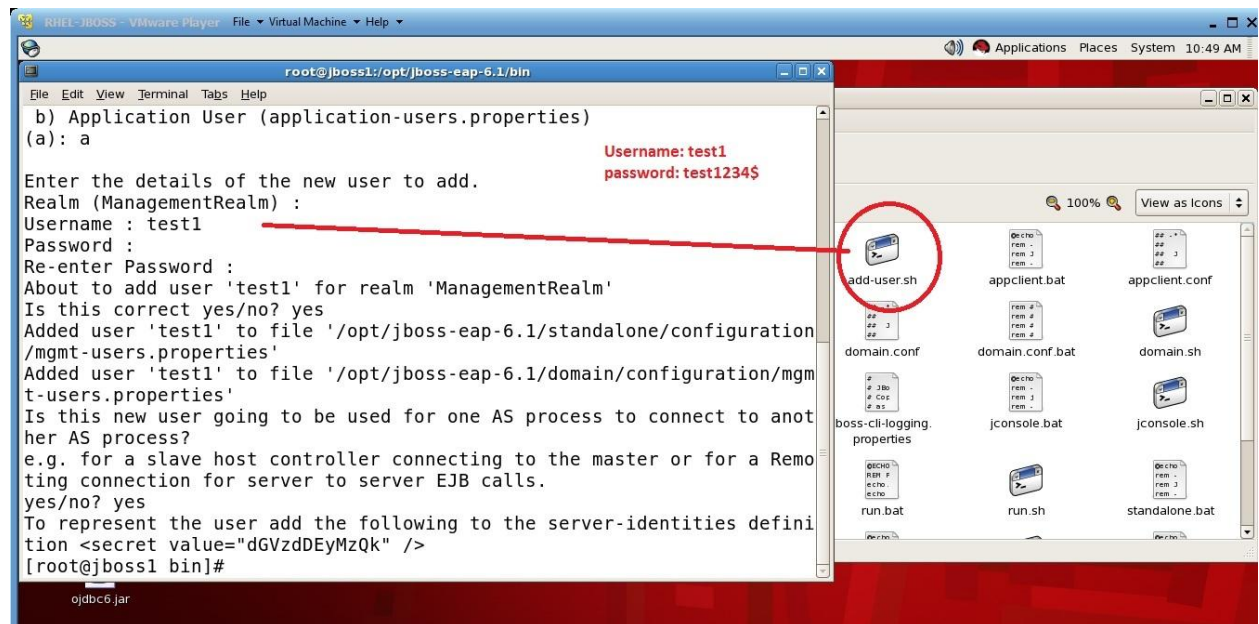
Once everything is done start your server by using the below command, however you would not see that the nodes **ha-server-1** and **ha-server-2** are in a cluster for that you would have to deploy an application which has the **distributable** tag in **web.xml**

Starting the Server
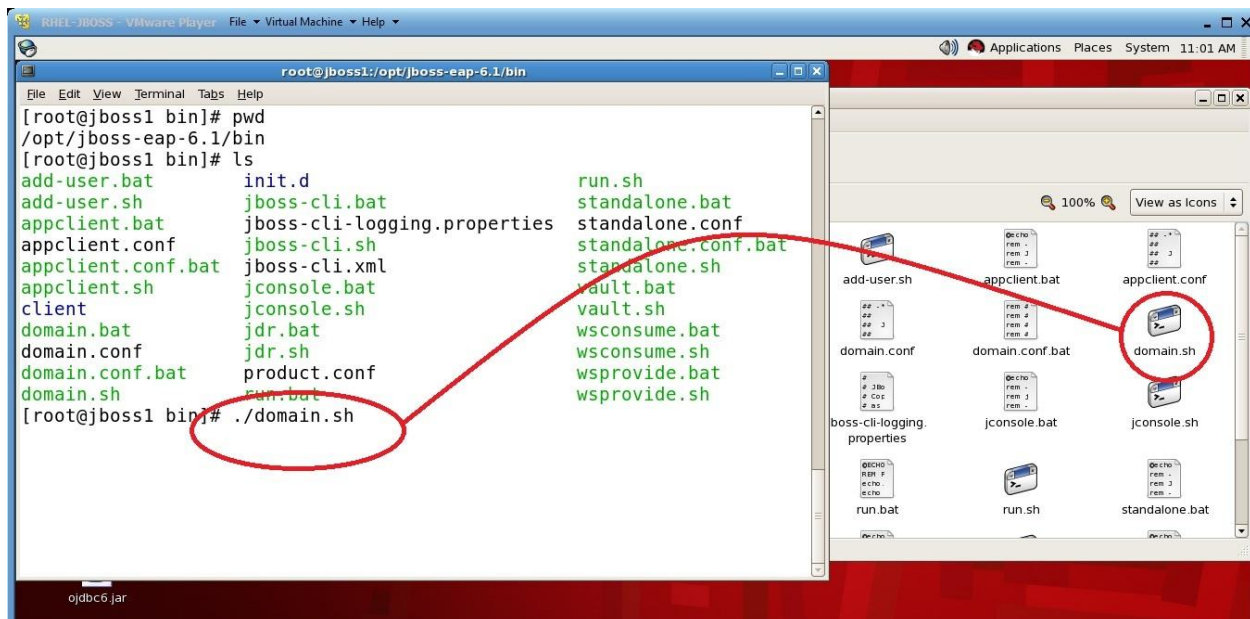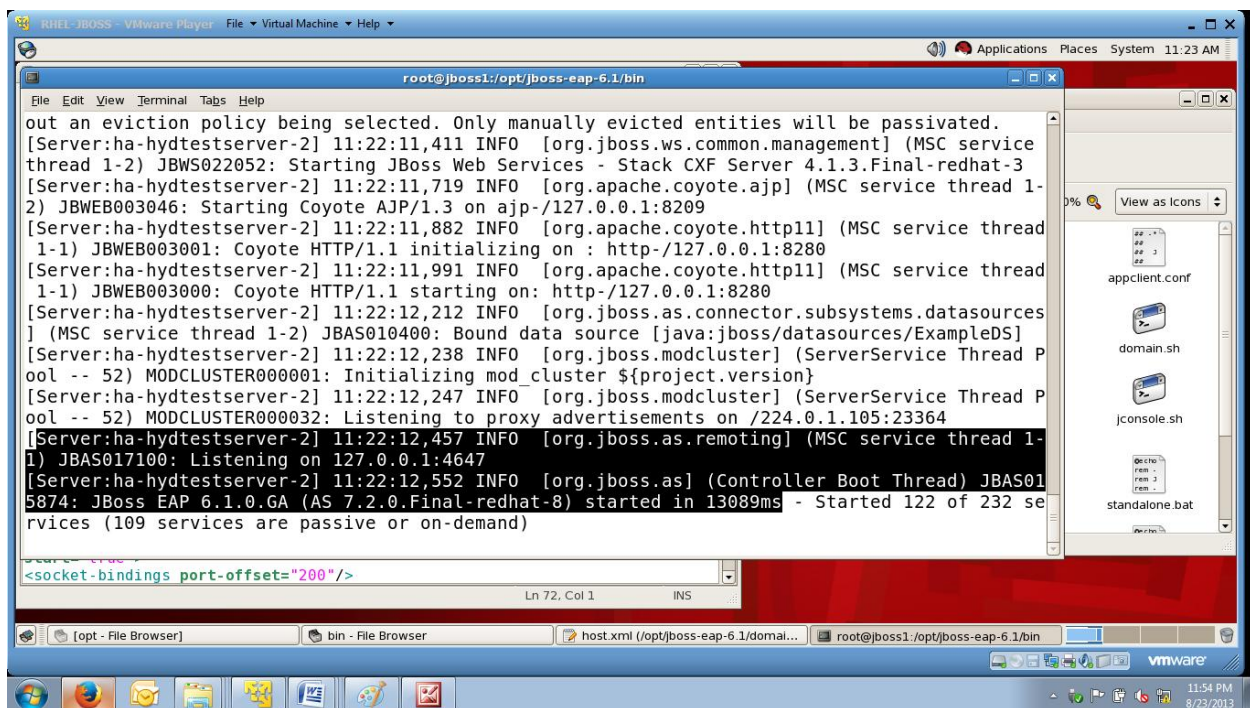
Now you can download one of our sample clustered application by : and deploy it from admin console from the URL "http://localhost:9990/console

Deploy the application (Cluster deployment)

Screenshot 1:

RHEL-JBOSS - VMware Player   File ▾ Virtual Machine ▾ Help ▾

Applications   Places   System   11:09 AM

JBoss Management - Mozilla Firefox 3 Beta 5

File   Edit   View   History   Bookmarks   Tools   Help

http://localhost:9990/console/App.html#domain-deployments

Smart Bookmarks ▾   Red Hat   Red Hat Magazine   Red Hat Network   Red Hat Support

File Upload

root   Desktop

Places
- root
- Desktop
- File System
- Floppy Drive

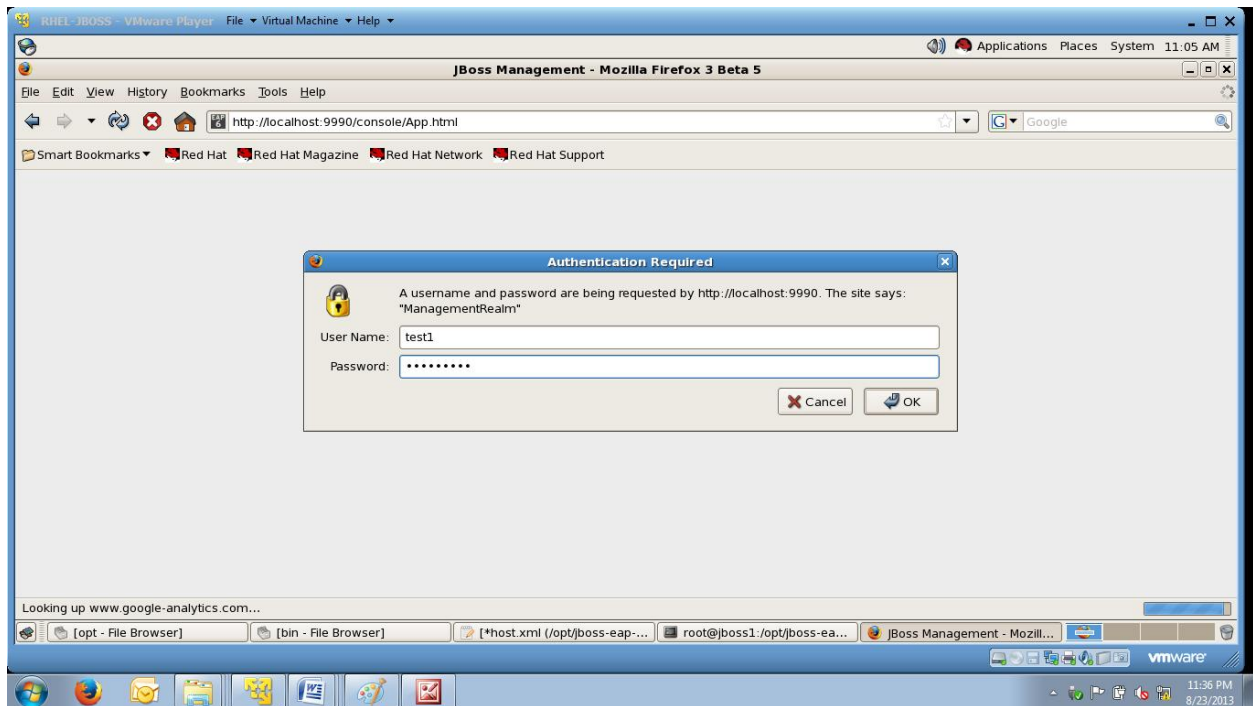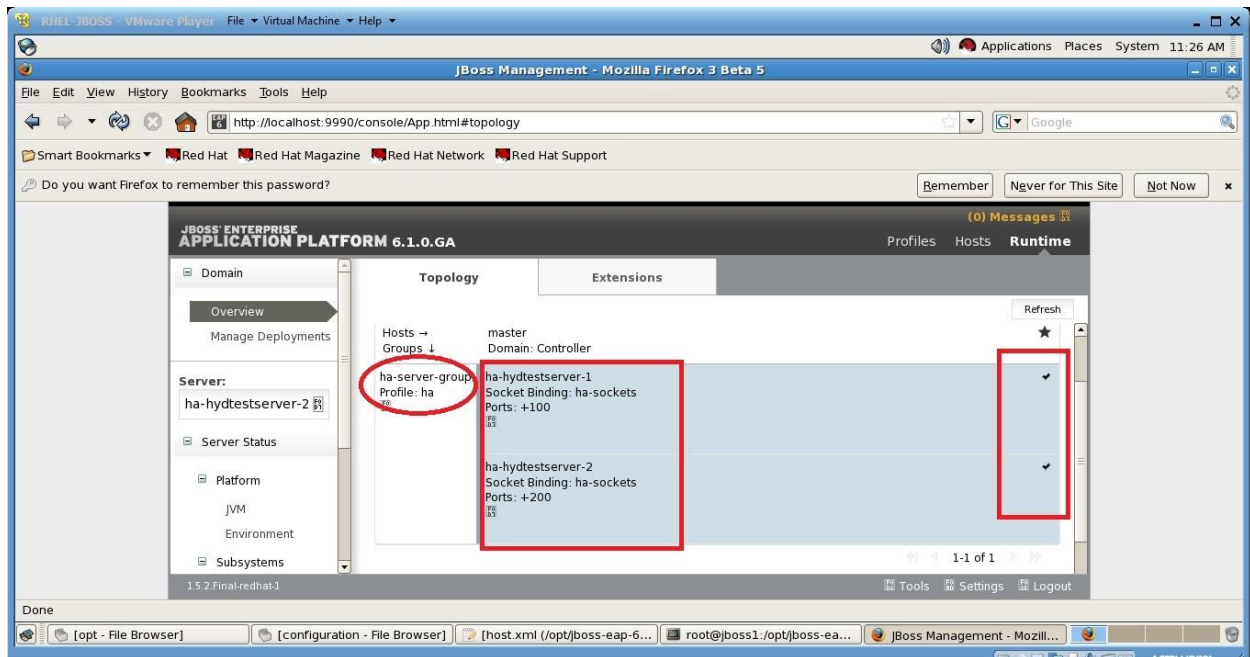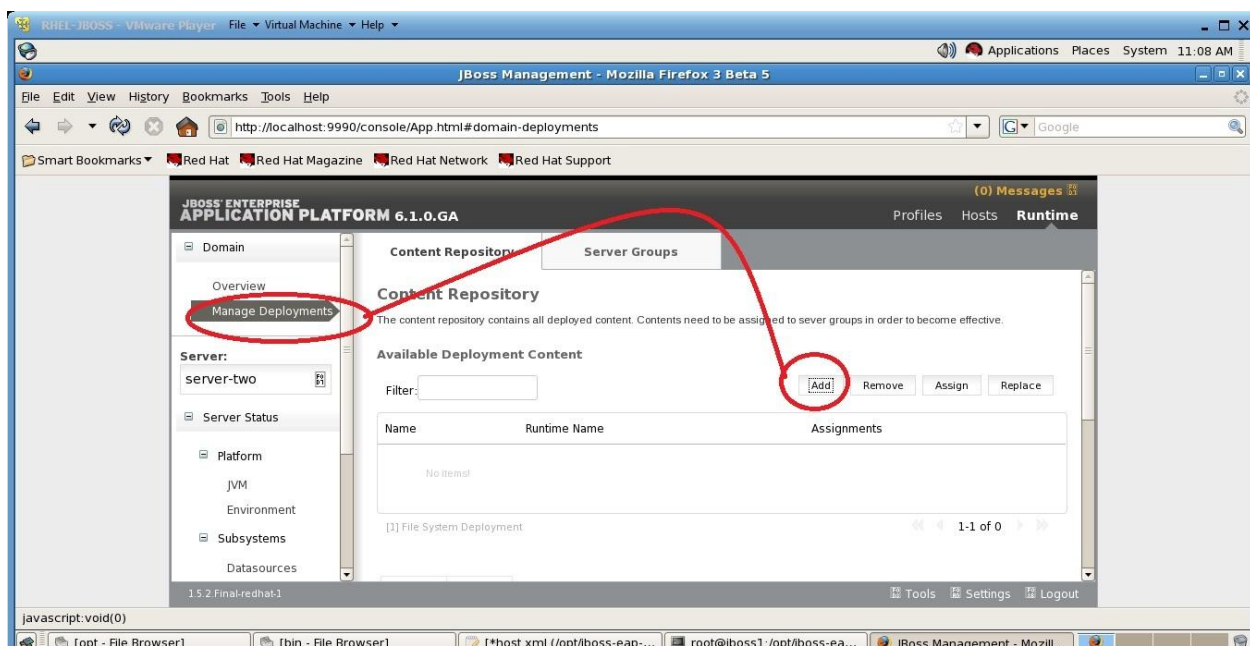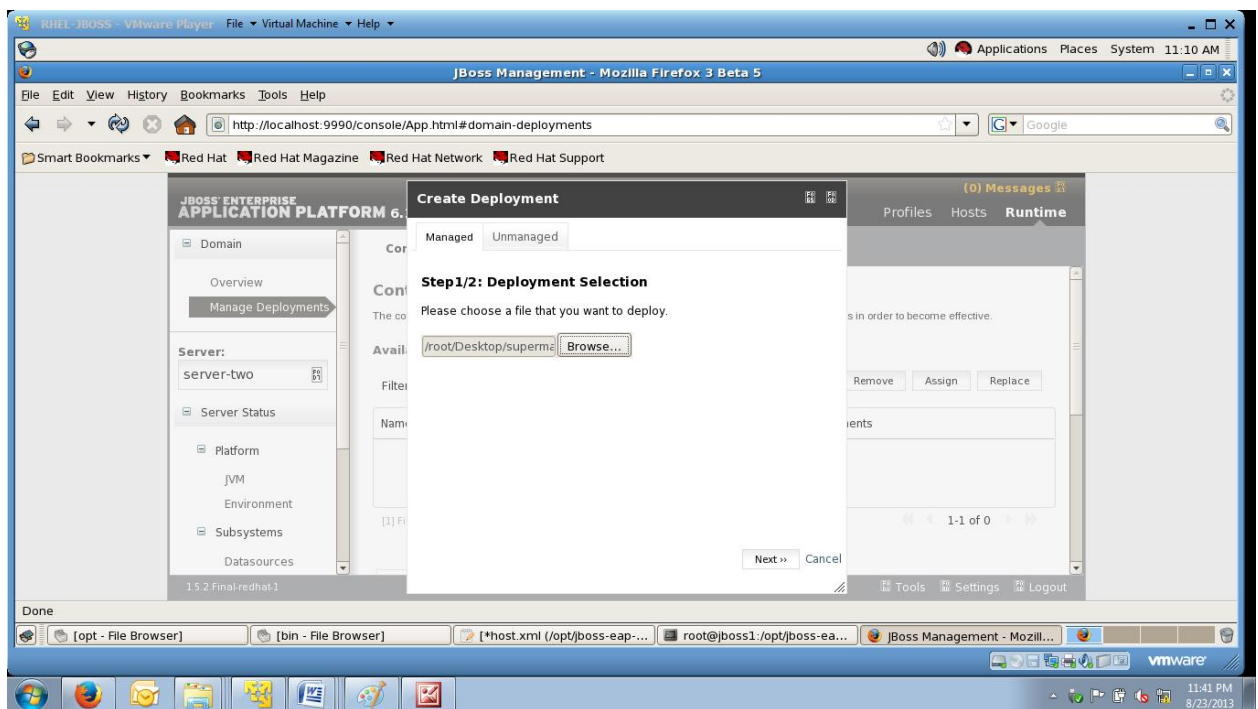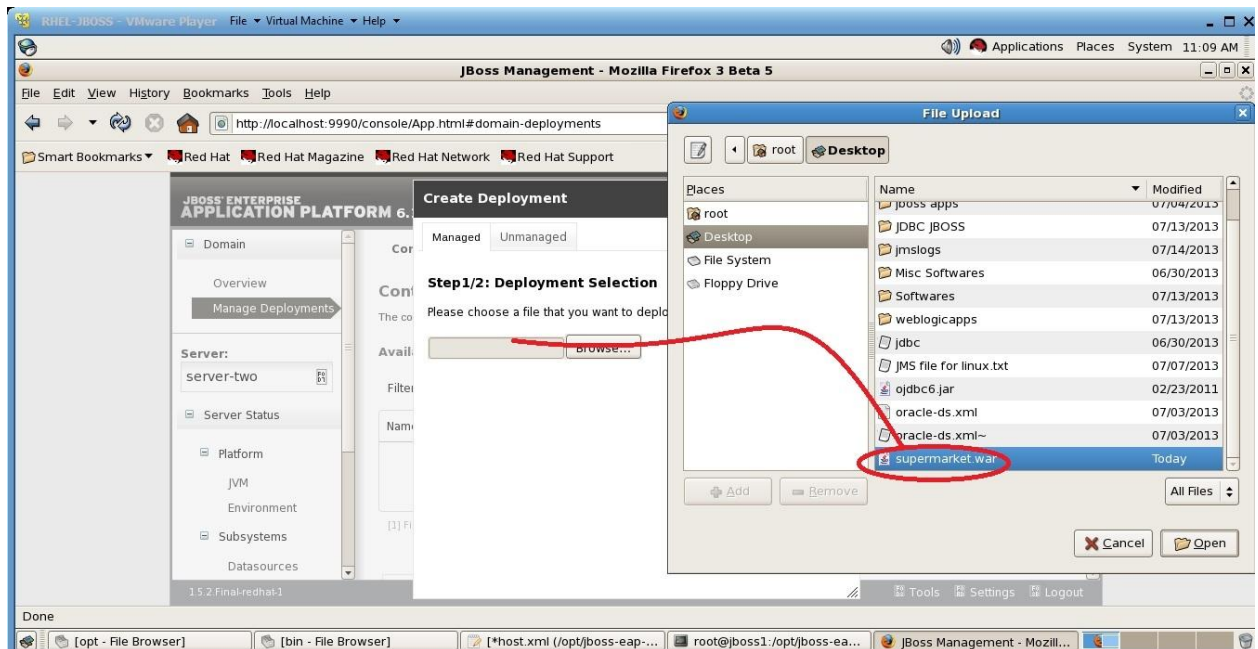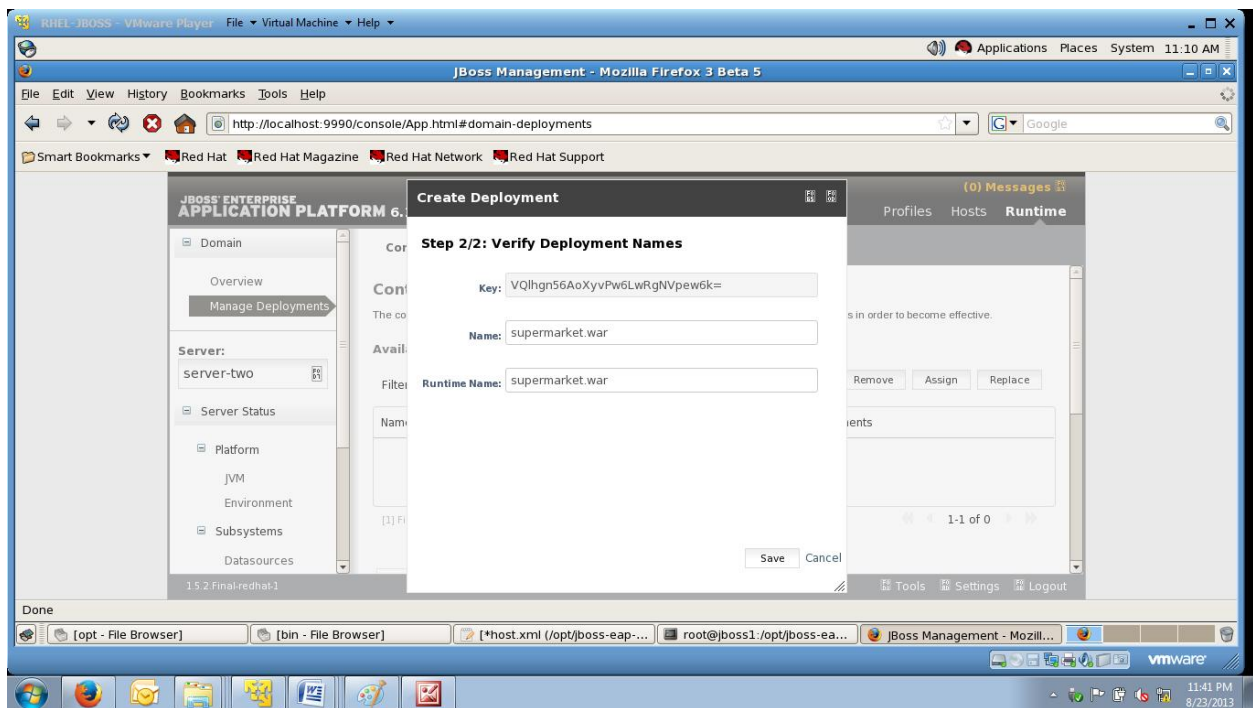| Name	Modified
Jboss apps	07/04/2013
JDBC JBOSS	07/13/2013
jmslogs	07/14/2013
Misc Softwares	06/30/2013
Softwares	07/13/2013
weblogicapps	07/13/2013
jdbc	06/30/2013
JMS file for linux.txt	07/07/2013
ojdbc6.jar	02/23/2011
oracle-ds.xml	07/03/2013
oracle-ds.xml~	07/03/2013
supermarket.war	Today

Add   Remove   All Files

Cancel   Open

JBOSS ENTERPRISE APPLICATION PLATFORM 6.

Create Deployment

Managed   Unmanaged

Step1/2: Deployment Selection

Please choose a file that you want to deplo

Browse...

- Domain
  - Overview
  - Manage Deployments
- Server:
  - server-two
- Server Status
  - Platform
    - JVM
    - Environment
  - Subsystems
    - Datasources

1.5.2.Final-redhat-1

Done

Tools   Settings   Logout

[opt - File Browser]   [bin - File Browser]   [*host.xml (/opt/jboss-eap-...]   root@jboss1:/opt/jboss-ea...   JBoss Management - Mozill...

Screenshot 2:

RHEL-JBOSS - VMware Player   File ▾ Virtual Machine ▾ Help ▾

Applications   Places   System   11:10 AM

JBoss Management - Mozilla Firefox 3 Beta 5

File   Edit   View   History   Bookmarks   Tools   Help

http://localhost:9990/console/App.html#domain-deployments

Google

Smart Bookmarks ▾   Red Hat   Red Hat Magazine   Red Hat Network   Red Hat Support

JBOSS ENTERPRISE APPLICATION PLATFORM 6.

(0) Messages

Profiles   Hosts   **Runtime**

Create Deployment

Managed   Unmanaged

Step1/2: Deployment Selection

Please choose a file that you want to deploy.

/root/Desktop/superma   Browse...

s in order to become effective.

Remove   Assign   Replace

- Domain
  - Overview
  - Manage Deployments
- Server:
  - server-two
- Server Status
  - Platform
    - JVM
    - Environment
  - Subsystems
    - Datasources

1.5.2.Final-redhat-1

1-1 of 0

Next ››   Cancel

Done

Tools   Settings   Logout

[opt - File Browser]   [bin - File Browser]   [*host.xml (/opt/jboss-eap-...]   root@jboss1:/opt/jboss-ea...   JBoss Management - Mozill...

vmware

11:41 PM
8/23/2013

**********IMPORTANT****After picking the app,assign the server group to be deployed

Screenshot 1 text content:

JBOSS ENTERPRISE APPLICATION PLATFORM 6.1.0.GA

Profiles   Hosts   **Runtime**

(1) Messages

- Domain
  - Overview
  - Manage Deployments

Server:
server-two

- Server Status
  - Platform
    - JVM
    - Environment
  - Subsystems
    - Datasources

Content Repository   Server Groups

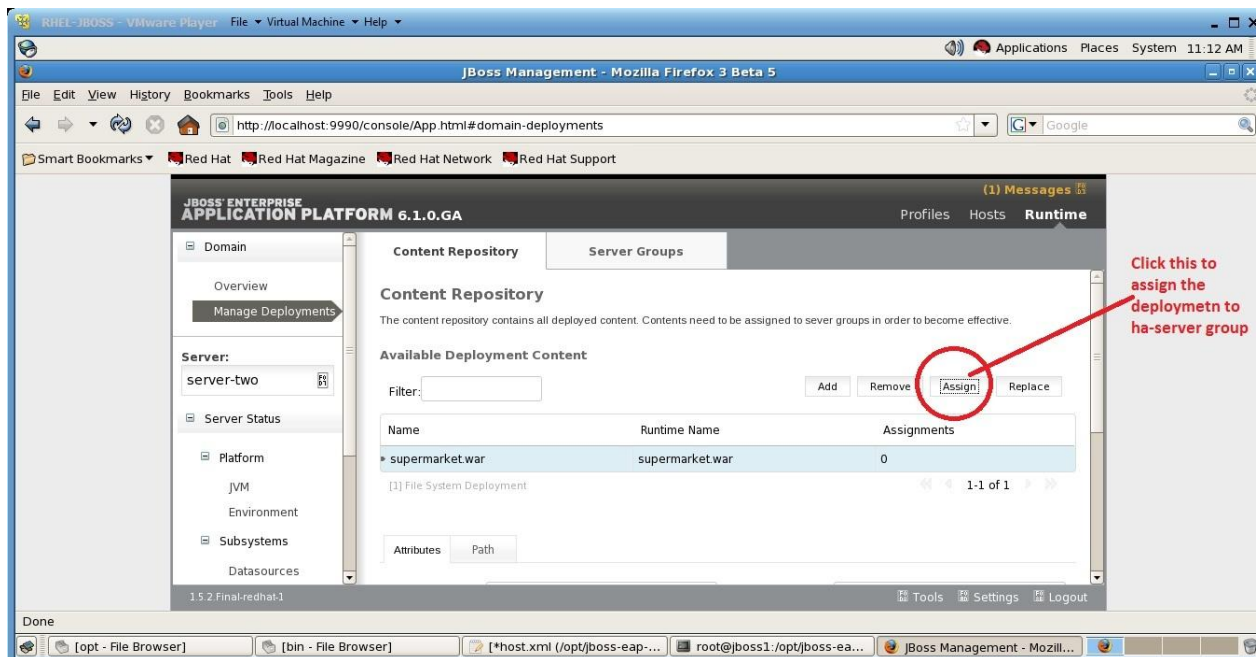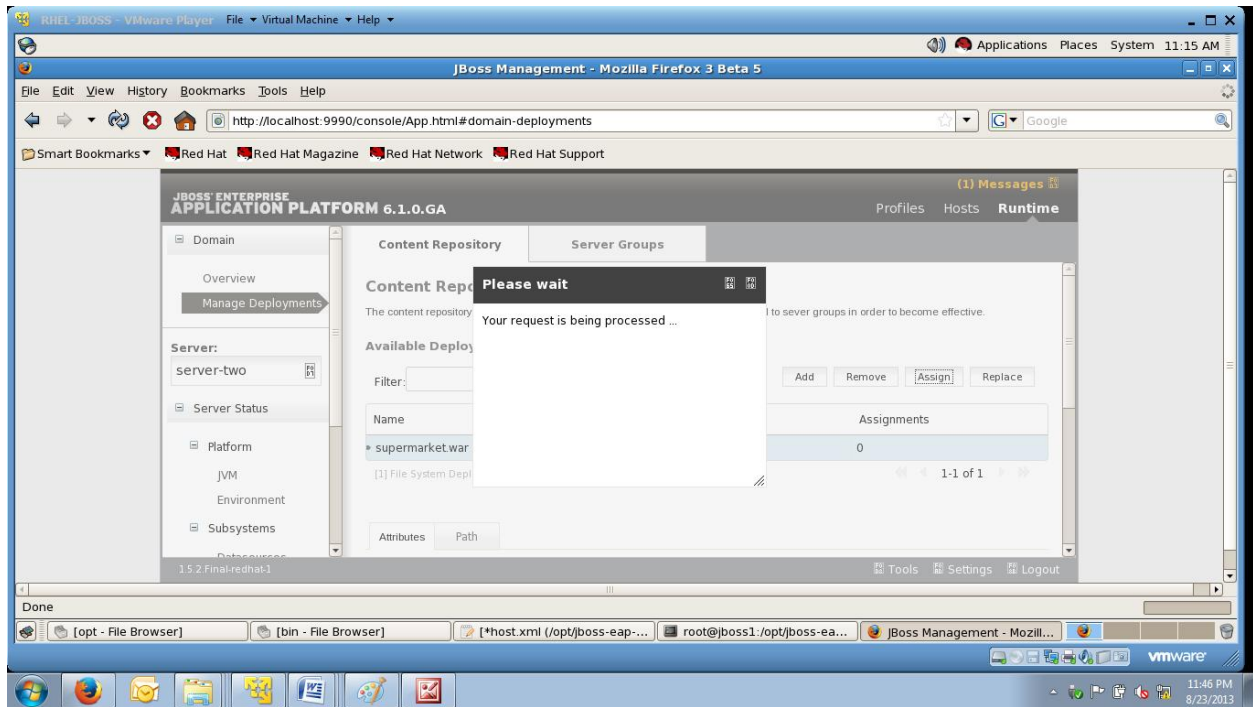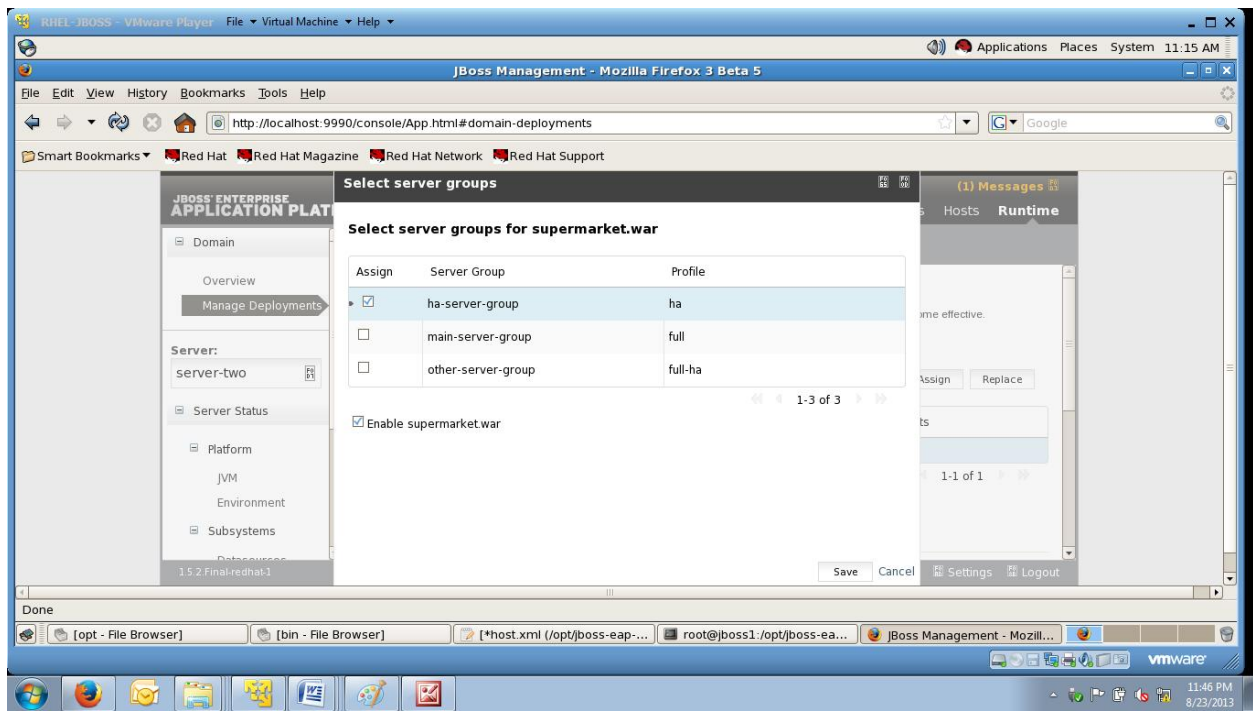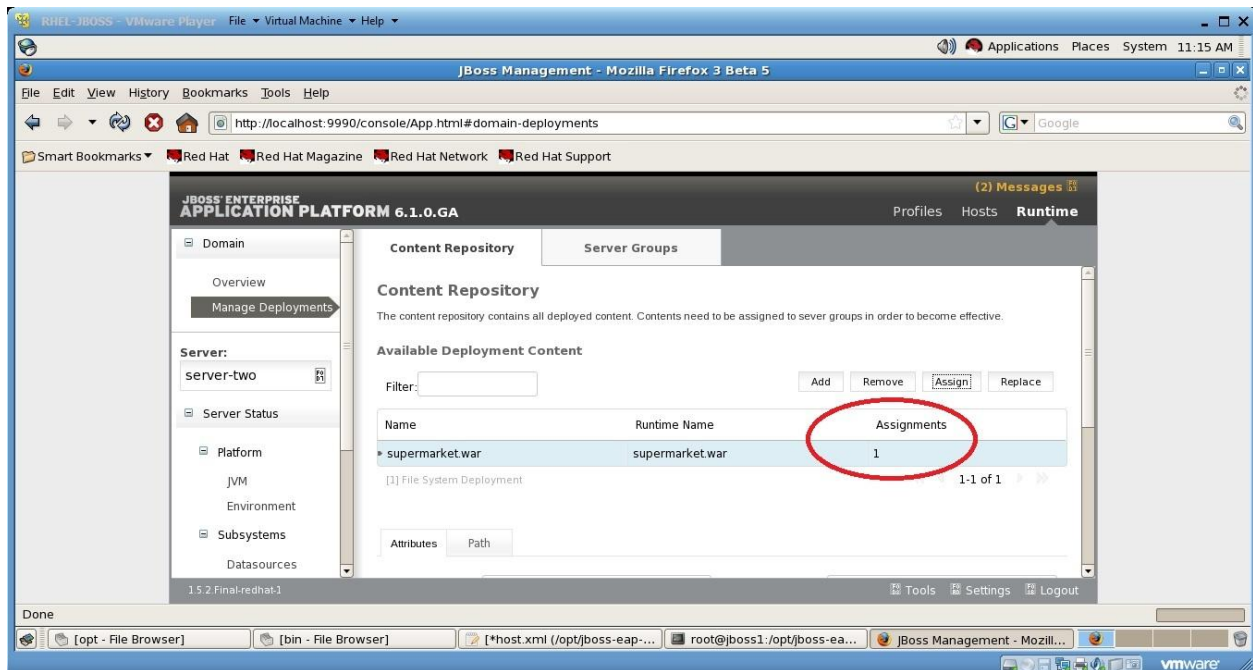**Content Repository**

The content repository contains all deployed content. Contents need to be assigned to sever groups in order to become effective.

Available Deployment Content

Filter: Add   Remove   Assign   Replace

Name	Runtime Name	Assignments
supermarket.war	supermarket.war	0

[1] File System Deployment   1-1 of 1

Attributes   Path

Click this to assign the deploymetn to ha-server group

1.5.2.Final-redhat-1   Tools   Settings   Logout

Screenshot 2 text content:

Select server groups

Select server groups for supermarket.war

Assign	Server Group	Profile
☐	ha-server-group	ha
☐	main-server-group	full
☐	other-server-group	full-ha

1-3 of 3

☑ Enable supermarket.war

Save   Cancel

********IMPORTANT*************