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Exam : **EX248**

Title : Red Hat Certified Specialist
in Enterprise Application
Server Administration

Version : DEMO

1.Download JBoss EAP 7.x from the Red Hat Customer Portal, install it to /opt/jboss-eap, set proper permissions for the jboss user, and verify the installation by starting the standalone server and accessing the CLI.

Answer:

1. Go to <https://access.redhat.com>, search for JBoss EAP 7.x, and download the ZIP.

2. Copy it to your server and extract:

```
unzip jboss-eap-7.x.zip -d /opt/
```

```
mv /opt/jboss-eap-7.x /opt/jboss-eap
```

3. Create the jboss user and set permissions:

```
useradd jboss && chown -R jboss:jboss /opt/jboss-eap
```

4. Switch to the jboss user, start the server, and access the CLI:

```
./opt/jboss-eap/bin/standalone.sh &
```

```
./opt/jboss-eap/bin/jboss-cli.sh --connect
```

5. Run: read-resource () to verify.

2.Create a systemd service for JBoss EAP standalone server so it starts automatically on boot.

Answer:

1. Create a service file /etc/systemd/system/jboss.service:

```
[Unit]
```

```
Description=JBoss EAP Standalone
```

```
After=network.target
```

```
[Service]
```

```
Type=simple
```

```
User=jboss
```

```
ExecStart=/opt/jboss-eap/bin/standalone.sh
```

```
Restart=on-abort
```

```
[Install]
```

```
WantedBy=multi-user.target
```

2. Reload and enable the service:

```
systemctl daemon-reexec
```

```
systemctl enable jboss
```

```
systemctl start jboss
```

3. Confirm with systemctl status jboss.

3.Secure the JBoss management interface by creating a user with the ManagementRealm. Verify by logging into the web admin console.

Answer:

1. Run the add-user script:

```
/opt/jboss-eap/bin/add-user.sh
```

2. Choose Management User, provide username/password, and realm as ManagementRealm.

3. Start the server if not already:

```
/opt/jboss-eap/bin/standalone.sh &
```

4. Access <http://localhost:9990> and log in with the credentials.

5. Confirm access to the admin console.

4. Bind the JBoss server to all IP addresses and secure it using management interface access restrictions in standalone.xml.

Answer:

1. Edit the standalone.conf to add:

```
-b 0.0.0.0 -bmanagement 0.0.0.0
```

2. Edit standalone/configuration/standalone.xml to restrict management access:

```
<http-interface security-realm="ManagementRealm"> <http-listener name="default" socket-binding="management-http" redirect-socket="management-https" enable-http2="true" max-post-size="2097152"/>
</http-interface>
```

3. Use firewall or IP tables to restrict management port (9990).

4. Restart JBoss.

5. Install a JBoss EAP domain mode setup on two hosts (host1 and host2), where host1 is the Domain Controller and host2 is a Host Controller.

Answer:

1. Install JBoss EAP on both hosts under /opt/jboss-eap.

2. On host1, start in domain mode:

```
./domain.sh
```

3. On host2, edit domain/configuration/host.xml to connect to host1:

```
<domain-controller>
<remote host="host1_ip" port="9999" security-realm="ManagementRealm"/> </domain-controller>
```

4. Start host controller on host2:

```
./domain.sh
```

5. From host1, use CLI or admin console to see host2.