

Chapter 1: Installation and Configuration

Installation has completed successfully.

An uninstaller program has been created in:

/home/francesco/EAP-7.0.0/uninstaller

[Generate installation script and properties file.](#)

Done

RED HAT JBOSS® ENTERPRISE APPLICATION PLATFORM 7

Welcome to JBoss EAP 7

**Your Red Hat JBoss Enterprise
Application Platform is running.**

[Administration Console](#) | [Documentation](#) | [Online User Groups](#)

To replace this page set "enable-welcome-root" to false in your server configuration and deploy your own war with / as its context path.

| Home | Deployments | Configuration | Runtime | Access Control |
|----------------------|-------------|-----------------------|----------------------|----------------|
| Configuration | | Subsystem (28) | | |
| Subsystems > | | EE | | ▲ |
| Interfaces | | JPA | View | |
| Socket Binding | | Batch | | |
| Paths | | IO | | |
| System Properties | | Logging | | |
| | | Deployment Scanners | | |

Chapter 2: The CLI Management Tool

```
2. root@dev:/opt/rh/jboss-eap-7.0 (ssh)
[standalone@localhost:9990 /]
:
alias          deploy          ls              set
batch          deployment-info module          shutdown
cd             deployment-overlay patch           try
clear         echo           pwd            unalias
command       echo-dmr       quit           undeploy
connect       help           read-attribute unset
connection-info history        read-operation version
data-source  jdbc-driver-info reload          xa-data-source
run-batch
[standalone@localhost:9990 /] █
```

```
2. root@dev:/opt/rh/jboss-eap-7.0 (ssh)
[standalone@localhost:9990 /] cd
--help          deployment-overlay socket-binding-group
--no-validation extension      subsystem
core-service   interface     system-property
deployment     path
[standalone@localhost:9990 /] cd subsystem=
batch-jberet   io           logging       sar
bean-validation jaxrs       mail          security
datasources   jca         naming        security-manager
deployment-scanner jdr         pojo          transactions
ee            jmx         remoting      undertow
ejb3          jpa         request-controller webservices
infinispan    jsf         resource-adapters weld
[standalone@localhost:9990 /] cd subsystem=datasources/
data-source  jdbc-driver  xa-data-source
[standalone@localhost:9990 /] cd subsystem=datasources/data-source=
[standalone@localhost:9990 data-source] █
```

```
2. root@dev:/opt/rh/jboss-eap-7.0 (ssh)
[standalone@localhost:9990 /] cd subsystem=logging
[standalone@localhost:9990 subsystem=logging] :
add                read-attribute-group-names
list-add           read-children-names
list-clear         read-children-resources
list-get           read-children-types
list-log-files     read-log-file
list-remove        read-operation-description
map-clear          read-operation-names
map-get            read-resource
map-put            read-resource-description
map-remove         remove
query              undefine-attribute
read-attribute     whoami
read-attribute-group write-attribute
[standalone@localhost:9990 subsystem=logging] :list-log-files()
{
  "outcome" => "success",
  "result" => [{
    "file-name" => "server.log",
    "file-size" => 35477L,
    "last-modified-date" => "2016-01-08T20:22:47.000+0100"
  }]
}
[standalone@localhost:9990 subsystem=logging] █
```

```
2. root@dev:/opt/rh/jboss-eap-7.0 (ssh)
[standalone@localhost:9990 /] /subsystem=logging:list-log-files()
{
  "outcome" => "success",
  "result" => [{
    "file-name" => "server.log",
    "file-size" => 35477L,
    "last-modified-date" => "2016-01-08T20:22:47.000+0100"
  }]
}
[standalone@localhost:9990 /] █
```

```
2. root@dev:/opt/rh/jboss-eap-7.0 (ssh)
[standalone@localhost:9990 /] :read-attribute(name=
launch-type          organization          release-version
management-major-version process-type          running-mode
management-micro-version product-name          schema-locations
management-minor-version product-version          server-state
name                 profile-name          suspend-state
namespaces           release-codename      uuid
[standalone@localhost:9990 /] :read-attribute(name=server-state)
{
  "outcome" => "success",
  "result" => "running"
}
[standalone@localhost:9990 /] █
```

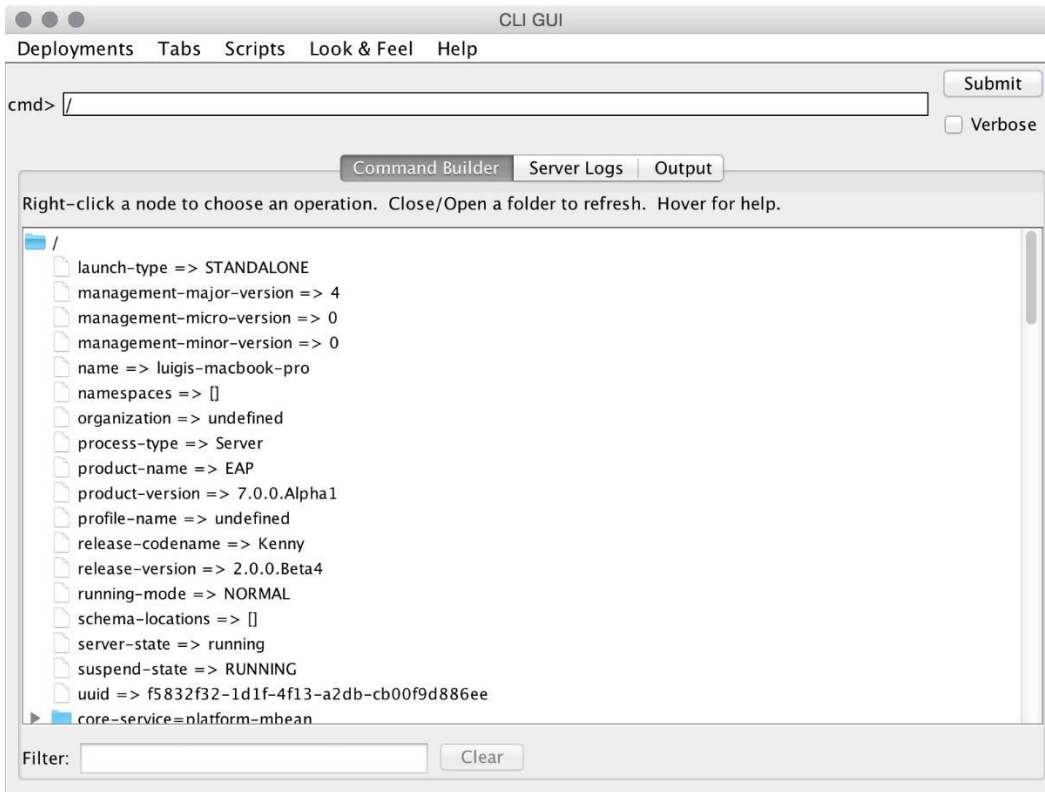
```
3. root@dev:/opt/rh/jboss-eap-7.0 (ssh)
[root@dev jboss-eap-7.0]# ps -efa | grep java
root      7347  7339  2 20:19 pts/2    00:04:24 java -Djboss.modules.system.pkgs=com.sun.java.swing -Dlogging.configuration=file:/opt/rh/jboss-eap-7.0/bin/jboss-cli-logging.properties -jar /opt/rh/jboss-eap-7.0/jboss-modules.jar -mp /opt/rh/jboss-eap-7.0/modules org.jboss.as.cli --connect
root      7591 25202  0 20:22 pts/0     00:00:44 java -D[Standalone] -server -verbose:gc -Xloggc:/opt/rh/jboss-eap-7.0/ch02/log/gc.log -XX:+PrintGCDetails -XX:+PrintGCDateStamps -XX:+UseGCLogFileRotation -XX:NumberOfGCLogFiles=5 -XX:GCLogFileSize=3M -XX:-TraceClassUnloading -Xms1303m -Xmx1303m -Djava.net.preferIPv4Stack=true -Djboss.modules.system.pkgs=org.jboss.byteman -Djava.awt.headless=true -Dorg.jboss.boot.log.file=/opt/rh/jboss-eap-7.0/ch02/log/server.log -Dlogging.configuration=file:/opt/rh/jboss-eap-7.0/ch02/configuration/logging.properties -jar /opt/rh/jboss-eap-7.0/jboss-modules.jar -mp /opt/rh/jboss-eap-7.0/modules org.jboss.as.standalone -Djboss.home.dir=/opt/rh/jboss-eap-7.0 -Djboss.server.base.dir=/opt/rh/jboss-eap-7.0/ch02 -Djboss.server.base.dir=ch02
root      14459 7201  0 23:20 pts/3    00:00:00 grep --color=auto java
[root@dev jboss-eap-7.0]# █
```

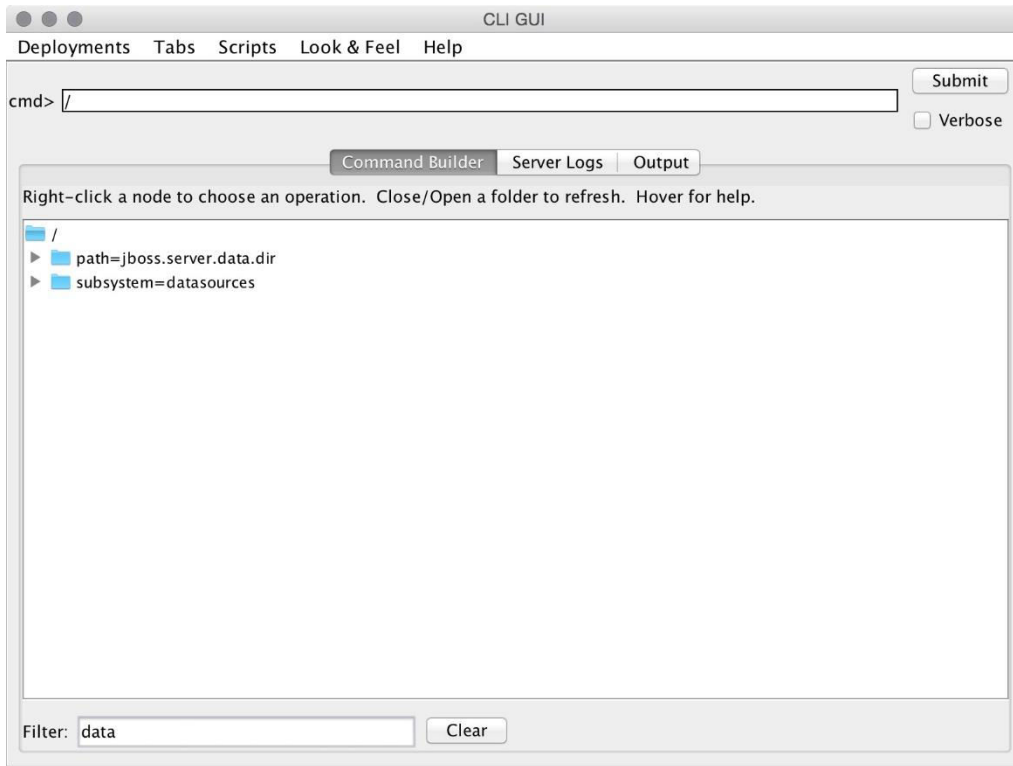
```
3. root@dev:/opt/rh/jboss-eap-7.0 (ssh)
[root@dev jboss-eap-7.0]# ps -efa | grep java
root      7347  7339  2 20:19 pts/2    00:04:30 java -Djboss.modules.system.pkgs=com.sun.java.swing -Dlogging.configuration=file:/opt/rh/jboss-eap-7.0/bin/jboss-cli-logging.properties -jar /opt/rh/jboss-eap-7.0/jboss-modules.jar -mp /opt/rh/jboss-eap-7.0/modules org.jboss.as.cli --connect
root      14623 25202 99 23:24 pts/0     00:00:09 java -D[Standalone] -server -verbose:gc -Xloggc:/opt/rh/jboss-eap-7.0/ch02/log/gc.log -XX:+PrintGCDetails -XX:+PrintGCDateStamps -XX:+UseGCLogFileRotation -XX:NumberOfGCLogFiles=5 -XX:GCLogFileSize=3M -XX:-TraceClassUnloading -Xms1303m -Xmx1303m -Djava.net.preferIPv4Stack=true -Djboss.modules.system.pkgs=org.jboss.byteman -Djava.awt.headless=true -Dorg.jboss.boot.log.file=/opt/rh/jboss-eap-7.0/ch02/log/server.log -Dlogging.configuration=file:/opt/rh/jboss-eap-7.0/ch02/configuration/logging.properties -jar /opt/rh/jboss-eap-7.0/jboss-modules.jar -mp /opt/rh/jboss-eap-7.0/modules org.jboss.as.standalone -Djboss.home.dir=/opt/rh/jboss-eap-7.0 -Djboss.server.base.dir=/opt/rh/jboss-eap-7.0/ch02 -Djboss.server.base.dir=ch02
root      14734 7201  0 23:24 pts/3    00:00:00 grep --color=auto java
[root@dev jboss-eap-7.0]# █
```



Hello World!

```
2. root@dev:/opt/rh/jboss-eap-7.0.0.Beta1-quickstarts/helloworld (ssh)
[standalone@localhost:9990 /] undeploy
--headers=          --path=          jboss-helloworld.war
--help              -l
[standalone@localhost:9990 /] undeploy jboss-helloworld.war
[standalone@localhost:9990 /] █
```





Chapter 3: Managing EAP in Domain Mode

The screenshot shows the Red Hat JBoss Enterprise Application Platform 7.0.0.Beta1 console interface. The browser address bar shows `localhost:29990/console/App.html#home`. The console header includes the product name, version, and user information (Messages: 0, Red Hat Access, admin). The main navigation menu includes Home, Deployments, Configuration, Runtime, Access Control, and Patching. The main content area is titled "Red Hat Jboss Enterprise Application Platform" and includes a "New to EAP7? Take a Tour" link. Two main sections are visible: "Deployments" and "Configuration".

Deployments
Add and manage deployments

- Deploy an Application | Start

Deploy an application to a server group.

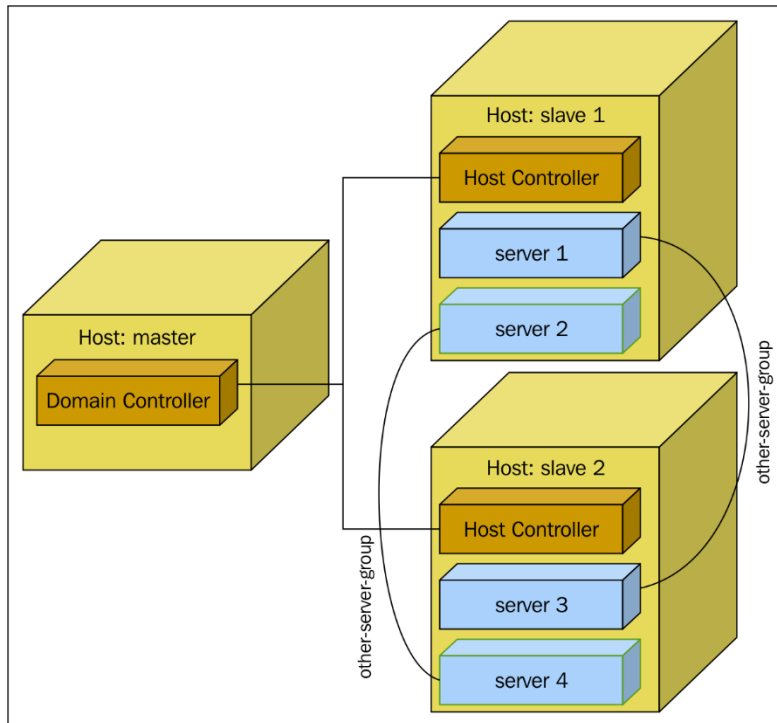
1. Add a new deployment to the content repository
2. Assign the deployment to one or more server groups
3. Enable the deployment

Configuration
Configure profiles and subsystem settings

- Create a Datasource | Start

Define a datasource to be used by deployed applications. The proper JDBC driver must be deployed and registered.

1. Select the Datasources subsystem for the appropriate profile
2. Add a Non-XA or XA datasource
3. Use the 'Create Datasource' wizard to configure the datasource settings



```

LYUT0012: Started server default-server.
[Server:server-700] 12:19:38,565 INFO [org.wildfly.extension.undertow] (MSC service thread 1-4) WF
LYUT0018: Host default-host starting
[Server:server-700] 12:19:38,719 INFO [org.wildfly.extension.undertow] (MSC service thread 1-6) WF
LYUT0006: Undertow HTTP listener default listening on 127.0.0.1:8230
[Server:server-700] 12:19:38,726 INFO [org.jboss.as.ejb3] (MSC service thread 1-1) WFLYEJB0481: St
strict pool slsb-strict-max-pool is using a max instance size of 64 (per class), which is derived fro
m thread worker pool sizing.
[Server:server-700] 12:19:38,726 INFO [org.jboss.as.ejb3] (MSC service thread 1-3) WFLYEJB0482: St
strict pool mdb-strict-max-pool is using a max instance size of 16 (per class), which is derived from
the number of CPUs on this host.
[Server:server-700] 12:19:38,963 INFO [org.jboss.as.connector.subsystems.datasources] (MSC service
thread 1-2) WFLYJCA0001: Bound data source [java:jboss/datasources/ExampleDS]
[Server:server-700] 12:19:39,474 INFO [org.jboss.ws.common.management] (MSC service thread 1-8) JB
WS022052: Starting JBossWS 5.1.3.SP1-redhat-1 (Apache CXF 3.1.4.redhat-1)
[Server:server-700] 12:19:39,566 INFO [org.infinispan.factories.GlobalComponentRegistry] (MSC serv
ice thread 1-3) ISPN000128: Infinispan version: Infinispan 'Mahou' 8.1.2.Final-redhat-1
[Server:server-700] 12:19:39,742 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0025: JBoss E
AP 7.0.0.GA (WildFly Core 2.1.0.Final-redhat-1) started in 4527ms - Started 257 of 545 services (36
9 services are lazy, passive or on-demand)
[Host Controller] 12:23:16,414 INFO [org.jboss.as.domain.controller] (Host Controller Service Thre
ads - 43) WFLYHC0019: Registered remote slave host "slave", JBoss EAP 6.4.0.GA (WildFly 7.5.0.Final
-redhat-21)

```

```

[francesco@localhost bin]$ ps -ef | grep java
frances+ 5090 5004 1 08:34 pts/1 00:00:01 java -D[Process Controller] -server -Xms64m
-Xmx512m -Djava.net.preferIPv4Stack=true -Djboss.modules.system.pkgs=org.jboss.byteman -Dj
ava.awt.headless=true -Dorg.jboss.boot.log.file=/home/francesco/jboss/jboss-eap-7.0/domain/
log/process-controller.log -Dlogging.configuration=file:/home/francesco/jboss/jboss-eap-7.0
/domain/configuration/logging.properties -jar /home/francesco/jboss/jboss-eap-7.0/jboss-mod
ules.jar -mp /home/francesco/jboss/jboss-eap-7.0/modules org.jboss.as.process-controller -j
boss-home /home/francesco/jboss/jboss-eap-7.0 -jvm java -mp /home/francesco/jboss/jboss-eap
-7.0/modules -- -Dorg.jboss.boot.log.file=/home/francesco/jboss/jboss-eap-7.0/domain/log/ho
st-controller.log -Dlogging.configuration=file:/home/francesco/jboss/jboss-eap-7.0/domain/c
onfiguration/logging.properties -server -Xms64m -Xmx512m -Djava.net.preferIPv4Stack=true -D
jboss.modules.system.pkgs=org.jboss.byteman -Djava.awt.headless=true -- -default-jvm java
frances+ 5107 5090 16 08:34 pts/1 00:00:10 java -D[Host Controller] -Dorg.jboss.boot.l
og.file=/home/francesco/jboss/jboss-eap-7.0/domain/log/host-controller.log -Dlogging.config
uration=file:/home/francesco/jboss/jboss-eap-7.0/domain/configuration/logging.properties -s
erver -Xms64m -Xmx512m -Djava.net.preferIPv4Stack=true -Djboss.modules.system.pkgs=org.jbos
s.byteman -Djava.awt.headless=true -jar /home/francesco/jboss/jboss-eap-7.0/jboss-modules.j
ar -mp /home/francesco/jboss/jboss-eap-7.0/modules org.jboss.as.host-controller -mp /home/f
rancesco/jboss/jboss-eap-7.0/modules --pc-address 127.0.0.1 --pc-port 49127 -default-jvm ja
va -Djboss.home.dir=/home/francesco/jboss/jboss-eap-7.0
frances+ 5176 5090 28 08:34 pts/1 00:00:17 /home/francesco/jdk1.8.0_60/jre/bin/java -D
[Server:server-one] -Xms64m -Xmx512m -server -Djava.awt.headless=true -Djava.net.preferIPv4
Stack=true -Djboss.home.dir=/home/francesco/jboss/jboss-eap-7.0 -Djboss.modules.system.pkgs
=org.jboss.byteman -Djboss.server.log.dir=/home/francesco/jboss/jboss-eap-7.0/domain/server
s/server-one/log -Djboss.server.temp.dir=/home/francesco/jboss/jboss-eap-7.0/domain/servers
/server-one/tmp -Djboss.server.data.dir=/home/francesco/jboss/jboss-eap-7.0/domain/servers/
server-one/data -Dlogging.configuration=file:/home/francesco/jboss/jboss-eap-7.0/domain/ser
vers/server-one/data/logging.properties -jar /home/francesco/jboss/jboss-eap-7.0/jboss-modu
les.jar -mp /home/francesco/jboss/jboss-eap-7.0/modules org.jboss.as.server
frances+ 5220 5090 27 08:34 pts/1 00:00:16 /home/francesco/jdk1.8.0_60/jre/bin/java -D
[Server:server-two] -Xms64m -Xmx512m -server -Djava.awt.headless=true -Djava.net.preferIPv4
Stack=true -Djboss.home.dir=/home/francesco/jboss/jboss-eap-7.0 -Djboss.modules.system.pkgs
=org.jboss.byteman -Djboss.server.log.dir=/home/francesco/jboss/jboss-eap-7.0/domain/server
s/server-two/log -Djboss.server.temp.dir=/home/francesco/jboss/jboss-eap-7.0/domain/servers
/server-two/tmp -Djboss.server.data.dir=/home/francesco/jboss/jboss-eap-7.0/domain/servers/
server-two/data -Dlogging.configuration=file:/home/francesco/jboss/jboss-eap-7.0/domain/ser
vers/server-two/data/logging.properties -jar /home/francesco/jboss/jboss-eap-7.0/jboss-modu
les.jar -mp /home/francesco/jboss/jboss-eap-7.0/modules org.jboss.as.server

```

```
francesco@localhost:~/jboss/book/slave1/jboss-eap-7.0/bin
File Edit View Search Terminal Help
xpiryQueue
[Server:server-two] 08:54:00,222 INFO [org.wildfly.extension.messaging-activemq] (ServerService Thread Pool -- 63) WFLYMSGAMQ0002: Bound messaging object to jndi name java:/ConnectionFactory
[Server:server-two] 08:54:00,223 INFO [org.jboss.as.connector.deployment] (MSC service thread 1-7) WFLYJCA0007: Registered connection factory java:/JmsXA
[Server:server-two] 08:54:00,275 INFO [org.apache.activemq.artemis.ra] (MSC service thread 1-7) Resource adaptor started
[Server:server-two] 08:54:00,275 INFO [org.jboss.as.connector.services.resourceadapters.ResourceAdapterActivatorService$ResourceAdapterActivator] (MSC service thread 1-7) IJ020002: Deployed: file://RaActivatoractivemq-ra
[Server:server-two] 08:54:00,277 INFO [org.jboss.as.connector.deployment] (MSC service thread 1-5) WFLYJCA0002: Bound JCA ConnectionFactory [java:/JmsXA]
[Server:server-two] 08:54:00,278 INFO [org.wildfly.extension.messaging-activemq] (MSC service thread 1-5) WFLYMSGAMQ0002: Bound messaging object to jndi name java:jboss/DefaultJMSConnectionFactory
[Server:server-two] 08:54:00,448 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0025: EAP 7.0.0.Beta1 (WildFly Core 2.0.3.Final-redhat-1) started in 8493ms - Started 290 of 537 services (343 services are lazy, passive or on-demand)
```

```
francesco@localhost:~/jboss/book/master/jboss-eap-7.0/bin
File Edit View Search Terminal Tabs Help
francesco@localhost:~/jboss/book/master/jb... x francesco@localhost:~/jboss/book/master/jb... x
YSRV0049: EAP 7.0.0.Beta1 (WildFly Core 2.0.3.Final-redhat-1) starting
[Host Controller] 08:52:45,797 INFO [org.jboss.as.host.controller] (Controller Boot Thread) WFLYHC0003: Creating http management service using network interface (management) port (9990) securePort (-1)
[Host Controller] 08:52:45,815 INFO [org.jboss.as.remoting] (MSC service thread 1-4) WFLYRMT0001: Listening on 127.0.0.1:9999
[Host Controller] 08:52:46,240 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0060: Http management interface listening on http://127.0.0.1:9990/management
[Host Controller] 08:52:46,240 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0051: Admin console listening on http://127.0.0.1:9990
[Host Controller] 08:52:46,240 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0025: EAP 7.0.0.Beta1 (WildFly Core 2.0.3.Final-redhat-1) (Host Controller) started in 477ms - Started 50 of 51 services (14 services are lazy, passive or on-demand)
[Host Controller] 09:02:18,208 INFO [org.jboss.as.domain.controller] (Host Controller Service Threads - 67) WFLYHC0019: Registered remote slave host "slave1", JBoss EAP 7.0.0.Beta1 (WildFly 2.0.3.Final-redhat-1)
```



```
francesco@localhost:~/jboss/book/master/jboss-eap-7.0/bin
File Edit View Search Terminal Tabs Help

francesco@localhost:~/jboss/book/master/jb... x francesco@localhost:~/jboss/book/master/jb... x
1-6) WFLYRMT0001: Listening on 127.0.0.1:9999
[Host Controller] 09:45:59,478 INFO [org.jboss.as] (Controller Boot Thread) WFLY
YRSRV0060: Http management interface listening on http://127.0.0.1:9990/management
t
[Host Controller] 09:45:59,479 INFO [org.jboss.as] (Controller Boot Thread) WFL
YRSRV0051: Admin console listening on http://127.0.0.1:9990
[Host Controller] 09:45:59,479 INFO [org.jboss.as] (Controller Boot Thread) WFL
YRSRV0025: EAP 7.0.0.Beta1 (WildFly Core 2.0.3.Final-redhat-1) (Host Controller)
started in 2897ms - Started 50 of 51 services (14 services are lazy, passive or
on-demand)
[Host Controller] 09:46:17,704 INFO [org.jboss.as.domain.controller] (Host Cont
roller Service Threads - 34) WFLYHC0019: Registered remote slave host "slave1",
JBoss EAP 7.0.0.Beta1 (WildFly 2.0.3.Final-redhat-1)
[Host Controller] 09:46:39,038 INFO [org.jboss.as.domain.controller] (Host Cont
roller Service Threads - 35) WFLYHC0019: Registered remote slave host "slave2",
JBoss EAP 7.0.0.Beta1 (WildFly 2.0.3.Final-redhat-1)
```

```
francesco@localhost:~/jboss/book/slave1/jboss-eap-7.0/bin
File Edit View Search Terminal Tabs Help

francesco@localhost:~/jboss/book/slave1/jboss-eap-7.0/bin
[francesco@localhost bin]$ ps -ef | grep server1
frances+ 23370 23303 60 10:56 pts/2 00:00:17 /home/francesco/jdk1.8.0_60/jre/
bin/java -D[Server:server1] -Xms64m -Xmx512m -Djava.awt.headless=true -Djava.net
.preferIPv4Stack=true -Djboss.home.dir=/home/francesco/jboss/book/slave1/jboss-e
ap-7.0 -Djboss.management.http.port=19990 -Djboss.management.native.port=19999 -
Djboss.modules.system.pkgs=org.jboss.byteman -Djboss.server.log.dir=/home/france
sco/jboss/book/slave1/jboss-eap-7.0/domain/servers/server1/log -Djboss.server.te
mp.dir=/home/francesco/jboss/book/slave1/jboss-eap-7.0/domain/servers/server1/tm
p -Djboss.server.data.dir=/home/francesco/jboss/book/slave1/jboss-eap-7.0/domain
/servers/server1/data -Dlogging.configuration=file:/home/francesco/jboss/book/sl
ave1/jboss-eap-7.0/domain/servers/server1/data/logging.properties -jar /home/fra
ncesco/jboss/book/slave1/jboss-eap-7.0/jboss-modules.jar -mp /home/francesco/jbo
ss/book/slave1/jboss-eap-7.0/modules org.jboss.as.server
frances+ 23857 17978 0 10:57 pts/4 00:00:00 grep --color=auto server1
[francesco@localhost bin]$
```

```
francesco@localhost:~/jboss/book/slave1/jboss-eap-7.0/bin
File Edit View Search Terminal Tabs Help
francesco@localhost:~/jboss-eap-7.0/bin
francesco@localhost:~/jboss-eap-7.0/bin
francesco@localhost:~/jboss-eap-7.0/bin
[francesco@localhost bin]$ ps -ef | grep server1
frances+ 21894 21827 99 10:40 pts/2    00:00:16 /home/francesco/jdk1.8.0_60/jre/
bin/java -D[Server:server1] -Xms128m -Xmx756m -server -Djava.awt.headless=true -
Djava.net.preferIPv4Stack=true -Djboss.home.dir=/home/francesco/jboss/book/slave
1/jboss-eap-7.0 -Djboss.management.http.port=19990 -Djboss.management.native.por
t=19999 -Djboss.modules.system.pkgs=org.jboss.byteman -Djboss.server.log.dir=/ho
me/francesco/jboss/book/slave1/jboss-eap-7.0/domain/servers/server1/log -Djboss.
server.temp.dir=/home/francesco/jboss/book/slave1/jboss-eap-7.0/domain/servers/s
erver1/tmp -Djboss.server.data.dir=/home/francesco/jboss/book/slave1/jboss-eap-7
.0/domain/servers/server1/data -Dlogging.configuration=file:/home/francesco/jbos
s/book/slave1/jboss-eap-7.0/domain/servers/server1/data/logging.properties -jar
/home/francesco/jboss/book/slave1/jboss-eap-7.0/jboss-modules.jar -mp /home/fran
cesco/jboss/book/slave1/jboss-eap-7.0/modules org.jboss.as.server
frances+ 22176 17978 0 10:40 pts/4    00:00:00 grep --color=auto server1
[francesco@localhost bin]$
```

```
francesco@localhost:~/jboss/book/slave1/jboss-eap-7.0/bin
File Edit View Search Terminal Tabs Help
francesco@localhost:~/jboss-eap-7.0/bin
francesco@localhost:~/jboss-eap-7.0/bin
francesco@localhost:~/jboss-eap-7.0/bin
[francesco@localhost bin]$ ps -ef | grep server1
frances+ 22640 22582 99 10:43 pts/2    00:00:18 /home/francesco/jdk1.8.0_60/jre/
bin/java -D[Server:server1] -Xms512m -Xmx512m -Djava.awt.headless=true -Djava.ne
t.preferIPv4Stack=true -Djboss.home.dir=/home/francesco/jboss/book/slave1/jboss-
eap-7.0 -Djboss.management.http.port=19990 -Djboss.management.native.port=19999
-Djboss.modules.system.pkgs=org.jboss.byteman -Djboss.server.log.dir=/home/fran
cesco/jboss/book/slave1/jboss-eap-7.0/domain/servers/server1/log -Djboss.server.t
emp.dir=/home/francesco/jboss/book/slave1/jboss-eap-7.0/domain/servers/server1/t
mp -Djboss.server.data.dir=/home/francesco/jboss/book/slave1/jboss-eap-7.0/doma
in/servers/server1/data -Dlogging.configuration=file:/home/francesco/jboss/book/s
lave1/jboss-eap-7.0/domain/servers/server1/data/logging.properties -jar /home/fr
ancesco/jboss/book/slave1/jboss-eap-7.0/jboss-modules.jar -mp /home/francesco/jb
oss/book/slave1/jboss-eap-7.0/modules org.jboss.as.server
frances+ 22944 17978 0 10:44 pts/4    00:00:00 grep --color=auto server1
[francesco@localhost bin]$
```

```
francesco@localhost:~/jboss/book/slave2/jboss-eap-7.0/bin
File Edit View Search Terminal Tabs Help
francesco@localhost:~/jboss/book/slave2/jbo... x francesco@localhost:~/jboss/book/slave2/jbo... x
[francesco@localhost bin]$ ps -ef | grep server3
frances+ 24331 24264 99 11:18 pts/5 00:00:17 /home/francesco/jdk1.8.0_60/jre/
bin/java -D[Server:server3] -Xms64m -Xmx512m -server -Djava.awt.headless=true -D
java.net.preferIPv4Stack=true -Djboss.home.dir=/home/francesco/jboss/book/slave2
/jboss-eap-7.0 -Djboss.management.http.port=29990 -Djboss.management.native.port
=29999 -Djboss.modules.system.pkgs=org.jboss.byteman -Djboss.server.log.dir=/hom
e/francesco/jboss/book/slave2/jboss-eap-7.0/domain/servers/server3/log -Djboss.s
erver.temp.dir=/home/francesco/jboss/book/slave2/jboss-eap-7.0/domain/servers/se
rver3/tmp -Djboss.server.data.dir=/home/francesco/jboss/book/slave2/jboss-eap-7.
0/domain/servers/server3/data -Dlogging.configuration=file:/home/francesco/jboss
/book/slave2/jboss-eap-7.0/domain/servers/server3/data/logging.properties -jar /
home/francesco/jboss/book/slave2/jboss-eap-7.0/jboss-modules.jar -mp /home/franc
esco/jboss/book/slave2/jboss-eap-7.0/modules/org.jboss.as.server
frances+ 24662 24601 0 11:18 pts/6 00:00:00 grep --color=auto server3
[francesco@localhost bin]$
```

```
francesco@localhost:~/jboss/book/slave1/jboss-eap-7.0/bin
File Edit View Search Terminal Tabs Help
francesco... x francesco... x francesco... x francesco... x francesco... x
ller.
[Host Controller] 16:31:32,987 INFO [org.jboss.as.host.controller] (Host Contro
ller Service Threads - 35) WFLYHC0150: Trying to reconnect to master host contro
ller.
[Host Controller] 16:31:47,999 INFO [org.jboss.as.host.controller] (Host Contro
ller Service Threads - 35) WFLYHC0150: Trying to reconnect to master host contro
ller.
[Host Controller] 16:32:03,010 INFO [org.jboss.as.host.controller] (Host Contro
ller Service Threads - 35) WFLYHC0150: Trying to reconnect to master host contro
ller.
[Host Controller] 16:32:18,022 INFO [org.jboss.as.host.controller] (Host Contro
ller Service Threads - 35) WFLYHC0150: Trying to reconnect to master host contro
ller.
[Host Controller] 16:32:18,549 INFO [org.jboss.as.host.controller] (Host Contro
ller Service Threads - 35) WFLYHC0148: Connected to master host controller at re
note://127.0.0.1:29999
```

Chapter 4: Deploying Applications

Add Content

Verify Upload [Need Help?](#)

Name:

Runtime Name:

RED HAT JBOSS® ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 1 Red Hat Access jboss

Home Deployments Configuration Runtime Access Control Patching

Browse By All Content (1) Add

| | | |
|--------------------|---|-----------------------------|
| Content Repository | > | <input type="text"/> |
| Unassigned Content | > | jboss-helloworld.war Assign |
| Server Groups | > | |

Content

The content 'jboss-helloworld.war' is not assigned to a server group.

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 3 Red Hat Access jboss

Home Deployments Configuration Runtime Access Control Patching

Browse By: All Content (1) Add

Content Repository:

Unassigned Content: jboss-helloworld.war Assign

Server Groups: Unassign
Replace
Remove

Content: The content 'jboss-helloworld.war' is assigned to the following server groups: main-server-group

Assign Content ↗ ✕

Assign Content

Choose the server groups for assigning 'jboss-helloworld.war'.

| | Server Group |
|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> | main-server-group |
| <input type="checkbox"/> | other-server-group |

<< < 1-2 of 2 > >>

Enable assignment on selected server groups:

Cancel Assign

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 2 Red Hat Access jboss

Home Deployments Configuration Runtime Access Control Patching

Browse By All Content (1) Add

| | | |
|--------------------|---|--|
| Content Repository | > | Q |
| Unassigned Content | > | jboss-helloworld.war Assign |
| Server Groups | > | |

Content
The content 'jboss-helloworld.war' is assigned to the following server groups:
main-server-group

Assign Content ↗ ✕

Assign Content

Choose the server groups for assigning 'jboss-helloworld.war'.

| | Server Group |
|-------------------------------------|--------------------|
| <input checked="" type="checkbox"/> | other-server-group |

<< < 1-1 of 1 > >>

Enable assignment on selected server groups:

Cancel Assign

Unassign Content
↗ ✕

Unassign Content

'jboss-helloworld.war' is assigned to the following server groups. Choose the server groups you want to unassign 'jboss-helloworld.war' from.

| | Server Group |
|-------------------------------------|-------------------|
| <input checked="" type="checkbox"/> | main-server-group |

<< < 1-1 of 1 > >>

Cancel
Assign

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1
Messages: 2 Red Hat Access jboss

Home Deployments Configuration Runtime Access Control Patching

| Browse By | Server Group (2) | Deployment (1) Add | |
|--------------------|--|--|--|
| Content Repository | > <input style="width: 80%;" type="text"/> | > <input style="width: 80%;" type="text"/> | |
| Unassigned Content | > main-server-group | > jboss-helloworld.war View | |
| Server Groups | > other-server-group | | |

jboss-helloworld.war

Deployment is disabled

Details

The deployment was never enabled
 The deployment was never disabled
 Runtime name: jboss-helloworld.war

Reference Server

The information was taken from host 'master', server 'server-one'.

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 2 Red Hat Access jboss

Home **Deployments** Configuration Runtime Access Control Patching

| Browse By | Server Group (2) | Deployment (1) | Add |
|--------------------|------------------------|------------------------|------|
| Content Repository | Q <input type="text"/> | Q <input type="text"/> | |
| Unassigned Content | main-server-group | jboss-helloworld.war | View |
| Server Groups | other-server-group | | |

jboss-helloworld.war

Deployment is disabled

Details

Deployment was never enabled
Deployment was never disabled
Name: jboss-helloworld.war

Reference Server

The information was taken from host 'master', server 'server-one'.

Are you sure? ↗ ✕

Enable jboss-helloworld.war

Cancel
Confirm

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 3 Red Hat Access jboss

Home **Deployments** Configuration Runtime Access Control Patching

| Browse By | Server Group (2) | Deployment (1) | Add |
|--------------------|------------------------|------------------------|------|
| Content Repository | Q <input type="text"/> | Q <input type="text"/> | |
| Unassigned Content | main-server-group | jboss-helloworld.war | View |
| Server Groups | other-server-group | | |

jboss-helloworld.war

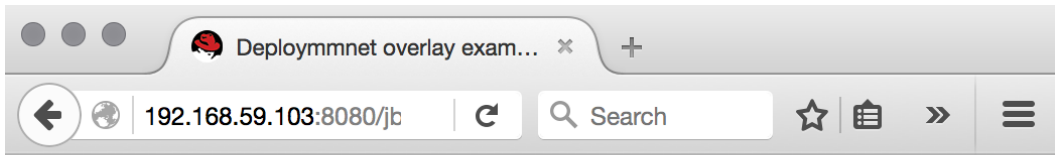
Deployment is enabled

Details

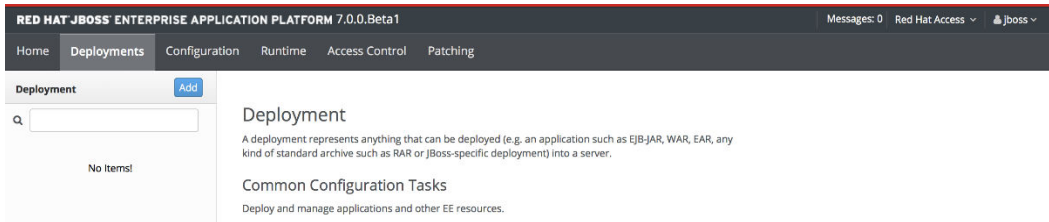
Last enabled at 2016-01-26 17:39:05.657 CET
The deployment was never disabled
Runtime name: jboss-helloworld.war

Reference Server

The information was taken from host 'master', server 'server-one'.



Hello World, we now have overlays!



Add Deployment



Please Choose

- Upload a new deployment
- Create an unmanaged deployment

Cancel

« Back

Next »



Add Deployment



Upload Deployment

Please choose a file that you want to deploy.

jboss-helloworld.war

Cancel

« Back

Next »



Add Deployment

Verify Upload

[Need Help?](#)

Name:

Runtime Name:

Enable:

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 1 Red Hat Access jboss

Home Deployments Configuration Runtime Access Control Patching

Deployment

Q

| | |
|----------------------|-------------------------------------|
| jboss-helloworld.war | <input type="button" value="View"/> |
|----------------------|-------------------------------------|

jboss-helloworld.war

■ Deployment is enabled

Details

Last enabled at: 2016-01-26 13:06:30,761 CET
The deployment was never disabled
Runtime name: jboss-helloworld.war

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 1 Red Hat Access jboss

Home **Deployments** Configuration Runtime Access Control Patching

Deployment Add

Q



| | | | |
|----------------------|------|---------|--|
| jboss-helloworld.war | View | Details | <p>jboss-helloworld.war</p> <p>■ Deployment is enabled</p> <p>Disabled at 2016-01-26 13:06:30,761 CET Deployment was never disabled Name: jboss-helloworld.war</p> |
|----------------------|------|---------|--|

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 0 Red Hat Access jboss

Home **Deployments** Configuration Runtime Access Control Patching

Browse By All Content (0) Add


| | | | |
|--------------------|---|------------------------|---|
| Content Repository | > | Q <input type="text"/> | <h3>Content Repository</h3> <p>Manage all deployments that have been uploaded to the domain.</p> <p>Upload a new deployment or create an unmanaged deployment. Assign deployments to server groups or remove deployments.</p> |
| Unassigned Content | > | No Items! | |
| Server Groups | > | | |

Add Content Add Content  

Please Choose

- Upload a new deployment
- Create an unmanaged deployment

Cancel « **Back** **Next** »





Upload Deployment

Please choose a file that you want to deploy.

jboss-helloworld.war

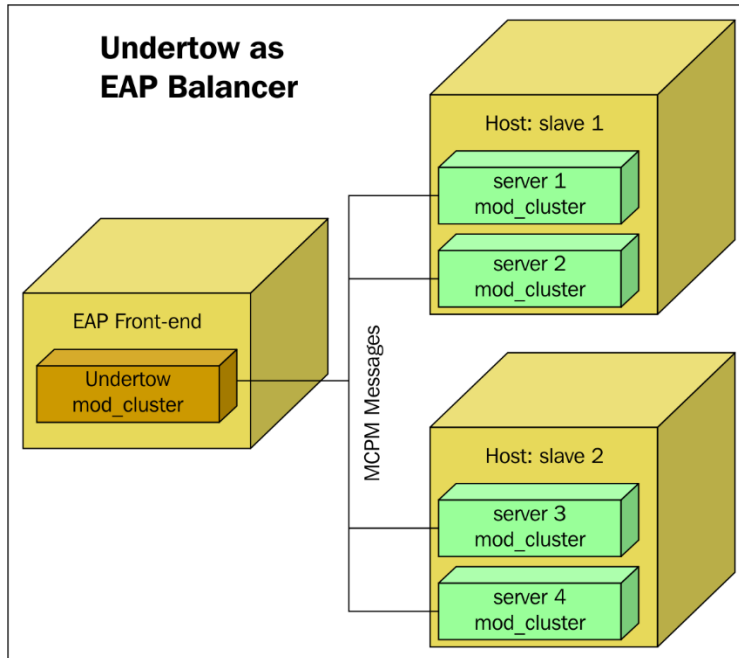
Cancel

« Back

Next »



Chapter 5: Load Balancing



Hello from Server slave1:server1

Current session: lb8kdKZcQ08o2HhBtx6EkQEOTncXEzt2oKmcZ6c2

mod_cluster/1.2.6.Final

[Auto Refresh](#) [show DUMP output](#) [show INFO output](#)

Node slave2:server3 (ajp://127.0.0.1:8309):

[Enable Contexts](#) [Disable Contexts](#)

Balancer: mycluster,LBGroup: ,Flushpackets: Off,Flushwait: 10000,Ping: 10000000,Smax: 26,Ttl: 60000000,Status: OK

Virtual Host 1:

Contexts:

/balancer, Status: ENABLED Request: 0 [Disable](#)

Aliases:

localhost
default-host

Node slave1:server1 (ajp://127.0.0.1:8009):

[Enable Contexts](#) [Disable Contexts](#)

Balancer: mycluster,LBGroup: ,Flushpackets: Off,Flushwait: 10000,Ping: 10000000,Smax: 26,Ttl: 60000000,Status: OK

Virtual Host 1:

Contexts:

/balancer, Status: ENABLED Request: 0 [Disable](#)

Hello from Server slave1:server1

Current session: lb8kdKZcQ08o2HhBtx6EkQEOTncXEzt2oKmcZ6c2

```
francesco@localhost:~/jboss/jboss-eap-7.0/modules/system/layers/base/org/jgroups/main
File Edit View Search Terminal Tabs Help
francesco@localhost:~/jboss/jboss-eap-7.0/... x francesco@localhost:~/jboss/jboss-eap-7.0/... x
[francesco@localhost main]$ java -classpath jgroups-3.6.6.Final-redhat-1.jar org
.jgroups.tests.McastSenderTest -mcast_addr 224.0.1.105 -port 23364
Socket #1=0.0.0.0/0.0.0.0:23364, ttl=32, bind interface=/192.168.121.1
Socket #2=0.0.0.0/0.0.0.0:23364, ttl=32, bind interface=/192.168.122.1
Socket #3=0.0.0.0/0.0.0.0:23364, ttl=32, bind interface=/fe80:0:0:0:5ee0:c5ff:fe
80:3199%wlp3s0
Socket #4=0.0.0.0/0.0.0.0:23364, ttl=32, bind interface=/192.168.1.66
Socket #5=0.0.0.0/0.0.0.0:23364, ttl=32, bind interface=/0:0:0:0:0:0:1%lo
Socket #6=0.0.0.0/0.0.0.0:23364, ttl=32, bind interface=/127.0.0.1
> hello multicast
>
```

```
francesco@localhost:~/jboss/jboss-eap-7.0/modules/system/layers/base/org/jgroups/main
File Edit View Search Terminal Tabs Help
francesco@localhost:~/jboss/jboss-eap-7.0/... x francesco@localhost:~/jboss/jboss-eap-7.0/... x
Socket=0.0.0.0/0.0.0.0:23364, bind interface=/fe80:0:0:0:5ee0:c5ff:fe80:3199%wlp^
3s0
Socket=0.0.0.0/0.0.0.0:23364, bind interface=/192.168.1.66
Socket=0.0.0.0/0.0.0.0:23364, bind interface=/0:0:0:0:0:0:1%lo
Socket=0.0.0.0/0.0.0.0:23364, bind interface=/127.0.0.1
hello multicast [sender=192.168.121.1:23364]
hello multicast [sender=192.168.1.66:23364]
hello multicast [sender=192.168.1.66:23364]
hello multicast [sender=192.168.1.66:23364]
hello multicast [sender=192.168.122.1:23364]
hello multicast [sender=127.0.0.1:23364]
hello multicast [sender=192.168.1.66:23364]
hello multicast [sender=192.168.1.66:23364]
hello multicast [sender=192.168.1.66:23364]
hello multicast [sender=127.0.0.1:23364]
```

Load Balancer Configuration Tool

Apache Configuration

Apache version

Servers

Cores per server

MPM type PREFORK WORKER WINNT

Module MOD_JK MOD_PROXY MOD_CLUSTER

Discovery type

Backend Configuration

Version EAP 7.X EAP 6.X EAP 5.X EAP 4.3
 TOMCAT

Servers

Cores per server

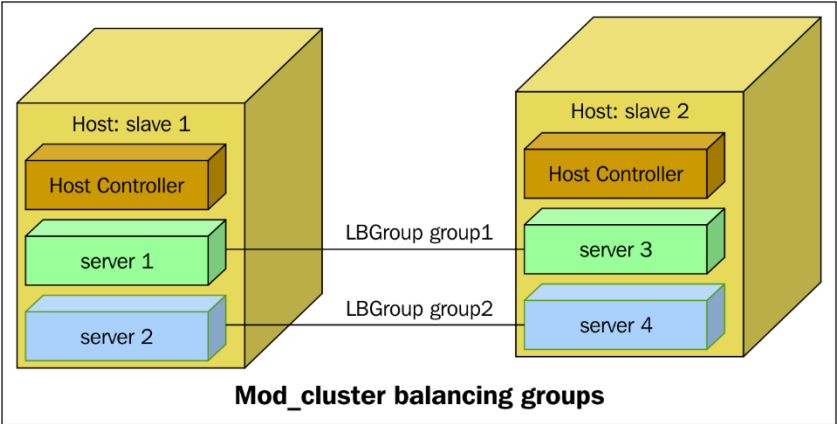
JVMs per server

Environment

Is there a firewall between Apache and JBoss?

Are Apache and JBoss on the same server?

Does the server handle long running requests?



LBGroup group1: [Enable Nodes](#) [Disable Nodes](#)

Node slave1: server1 (ajp://127.0.0.1:8009):

[Enable Contexts](#) [Disable Contexts](#)

Virtual Host 1:

Contexts:

/balancer, Status: ENABLED Requests: 0 [Disable](#)

Node slave2: server3 (ajp://127.0.0.1:8309):

[Enable Contexts](#) [Disable Contexts](#)

Virtual Host 1:

Contexts:

/balancer, Status: ENABLED Requests: 0 [Disable](#)

LBGroup group2: [Enable Nodes](#) [Disable Nodes](#)

Node slave2: server4 (ajp://127.0.0.1:8459):

[Enable Contexts](#) [Disable Contexts](#)

Virtual Host 1:

Contexts:

/balancer, Status: ENABLED Requests: 0 [Disable](#)

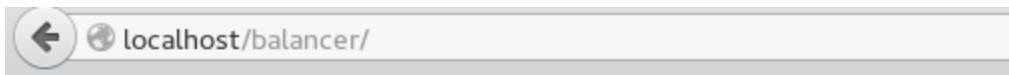
Node slave1: server2 (ajp://127.0.0.1:8109):

[Enable Contexts](#) [Disable Contexts](#)

Virtual Host 1:

Contexts:

/balancer, Status: ENABLED Requests: 0 [Disable](#)



Hello from Server slave2:server3

Current session: _saX8DnRc8t6a5RvyubFTXIQAgQ_NNxOsA4q6o57

Hello from Server slave1:server1

Current session: _saX8DnRc8t6a5RvyubFTXIQAgQ_NNxOsA4q6o57

Chapter 6: Clustering EAP 7

```
./bin/add-user.sh -dc ejb-cluster/configuration
```

What type of user do you wish to add?

- a) Management User (mgmt-users.properties)
 - b) Application User (application-users.properties)
- (a): b

Enter the details of the new user to add.

Using realm 'ApplicationRealm' as discovered from the existing property files.

Username : ejb

Password recommendations are listed below. To modify these restrictions edit the add-user.properties configuration file.

- The password should be different from the username
- The password should not be one of the following restricted values {root, admin, administrator}
- The password should contain at least 8 characters, 1 alphabetic character(s), 1 digit(s), 1 non-alphanumeric symbol(s)

Password :

Re-enter Password :

What groups do you want this user to belong to? (Please enter a comma separated list, or leave blank for none)[]:

About to add user 'ejb' for realm 'ApplicationRealm'

Is this correct yes/no? yes

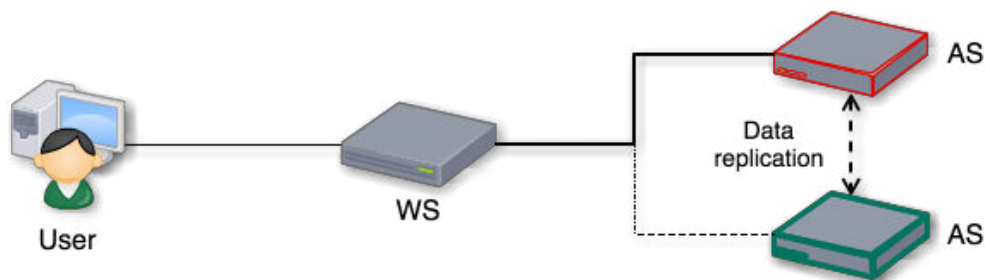
Added user 'ejb' to file '/opt/rh/jboss-eap-7.0/ejb-cluster/configuration/application-users.properties'

Added user 'ejb' with groups to file '/opt/rh/jboss-eap-7.0/ejb-cluster/configuration/application-roles.properties'

Is this new user going to be used for one AS process to connect to another AS process?

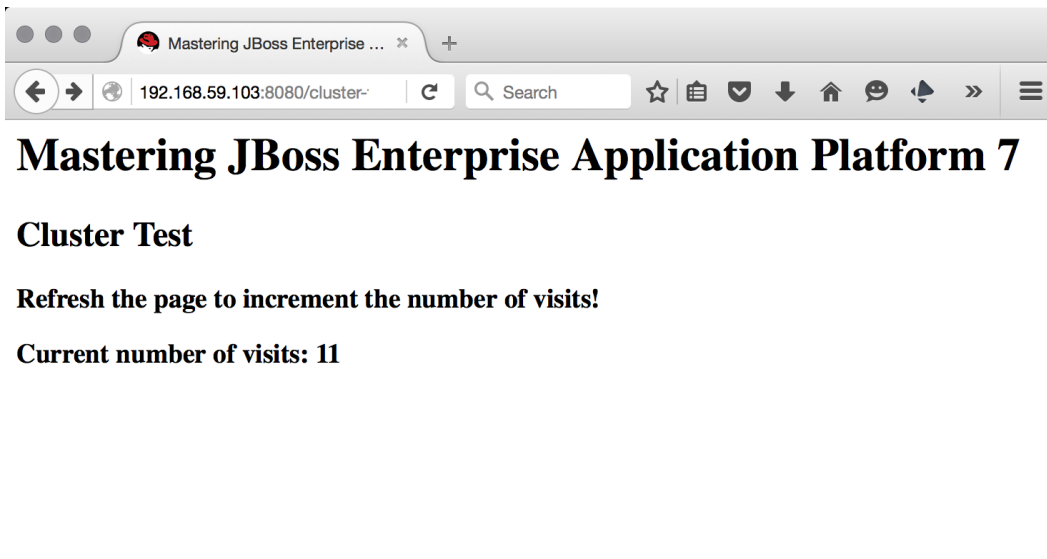
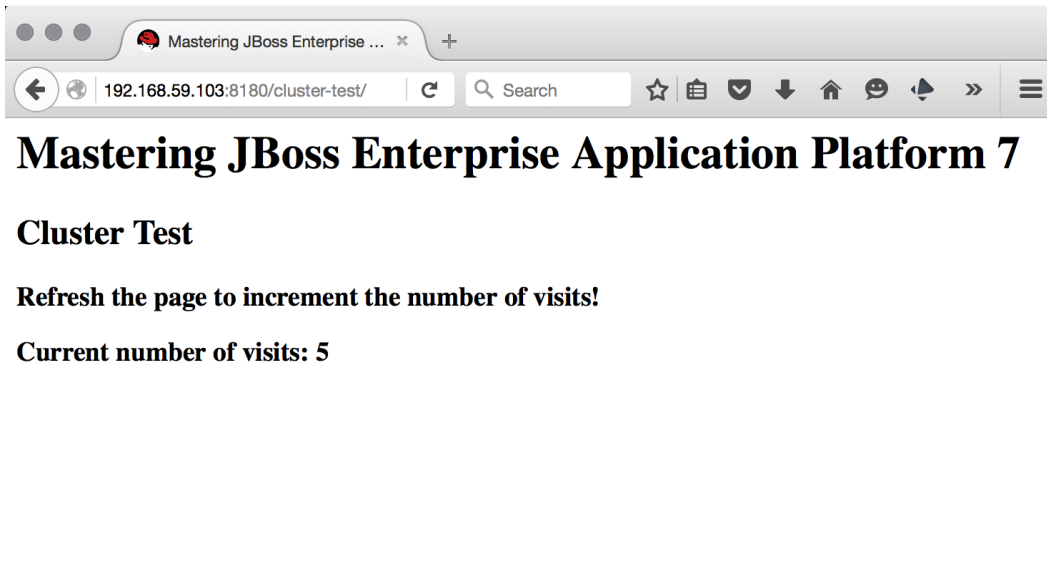
e.g. for a slave host controller connecting to the master or for a Remoting connection for server to server EJB calls.
yes/no? yes

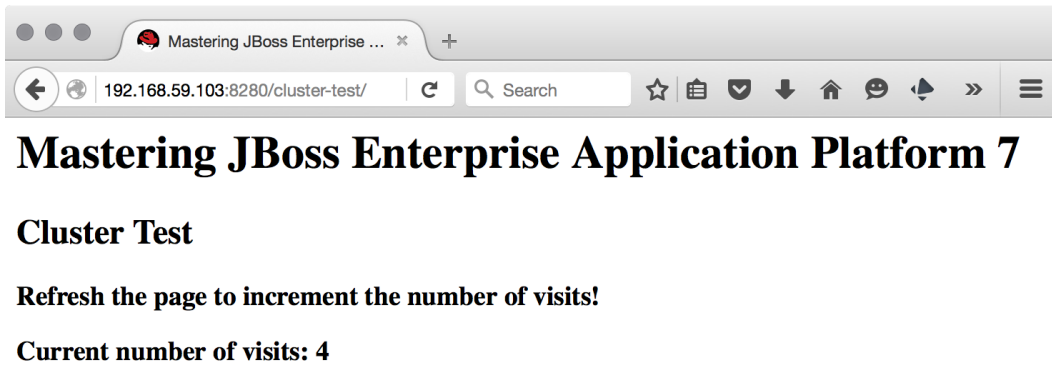
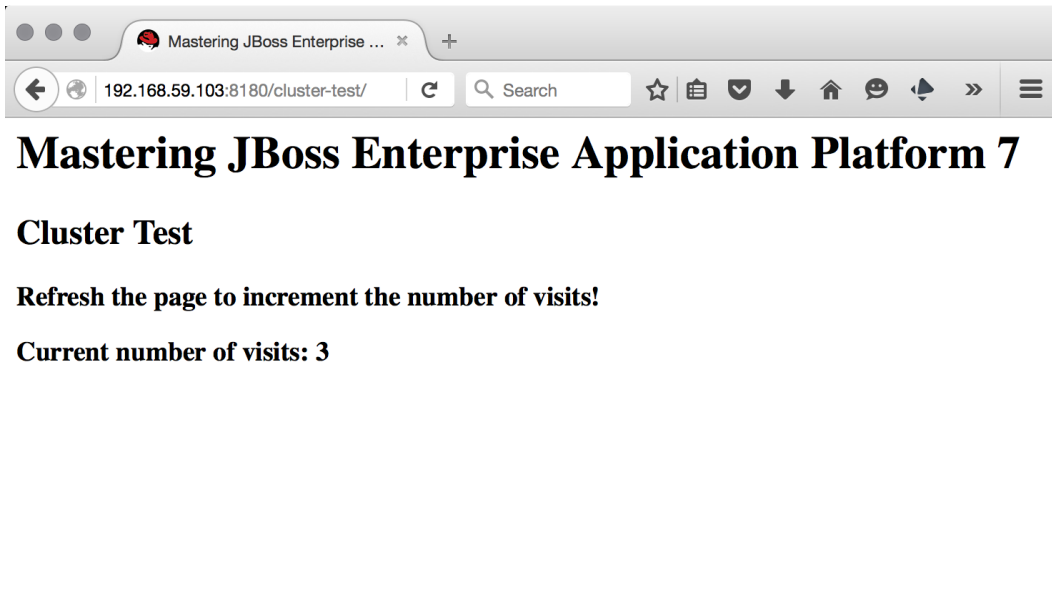
To represent the user add the following to the server-identities definition <secret value="ZWpiljIwMTU=" />



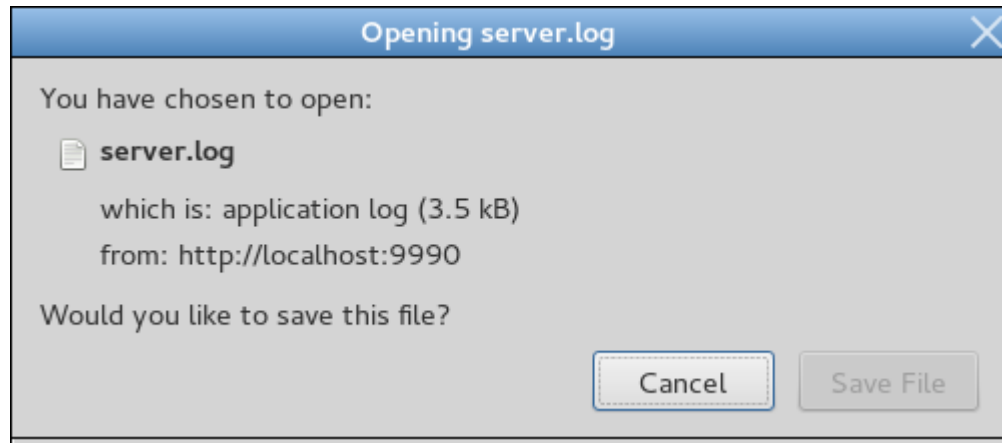
01:41:47,354 INFO [org.jboss.as.repository] (management-handler-thread - 7) WFLYDR0001: Content added at location /opt/rh/jboss-eap-7.0/cluster-1/data/content/66/c18d6f5382b3ab9faf290b9111f97235f59a18/content
01:41:47,378 INFO [org.jboss.as.server.deployment] (MSC service thread 1-8) WFLYSRV0027: Starting deployment of "cluster-test.war" (runtime-name: "cluster-test.war")
01:41:48,031 WARN [org.jgroups.protocols.UDP] (MSC service thread 1-2) JGRP000015: the send buffer of socket ManagedDatagramSocketBinding was set to 1MB, but the OS only allocated 212.99KB. This might lead to performance problems. Please set your max send buffer in the OS correctly (e.g. net.core.wmem_max on Linux)
01:41:48,032 WARN [org.jgroups.protocols.UDP] (MSC service thread 1-2) JGRP000015: the receive buffer of socket ManagedDatagramSocketBinding was set to 2MB, but the OS only allocated 212.99KB. This might lead to performance problems. Please set your max receive buffer in the OS correctly (e.g. net.core.rmem_max on Linux)
01:41:48,032 WARN [org.jgroups.protocols.UDP] (MSC service thread 1-2) JGRP000015: the send buffer of socket ManagedMulticastSocketBinding was set to 1MB, but the OS only allocated 212.99KB. This might lead to performance problems. Please set your max send buffer in the OS correctly (e.g. net.core.wmem_max on Linux)
01:41:48,033 WARN [org.jgroups.protocols.UDP] (MSC service thread 1-2) JGRP000015: the receive buffer of socket ManagedMulticastSocketBinding was set to 2MB, but the OS only allocated 212.99KB. This might lead to performance problems. Please set your max receive buffer in the OS correctly (e.g. net.core.rmem_max on Linux)
01:41:51,658 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-5) ISPN000078: Starting JGroups channel ejb
01:41:51,659 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-8) ISPN000078: Starting JGroups channel web
01:41:51,659 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-4) ISPN000078: Starting JGroups channel server
01:41:51,658 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-2) ISPN000078: Starting JGroups channel hibernate
01:41:51,675 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-2) ISPN000094: Received new cluster view for channel hibernate: [dev]0 (1) [dev]
01:41:51,676 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-8) ISPN000094: Received new cluster view for channel web: [dev]0 (1) [dev]
01:41:51,675 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-4) ISPN000094: Received new cluster view for channel server: [dev]0 (1) [dev]
01:41:51,680 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-5) ISPN000094: Received new cluster view for channel ejb: [dev]0 (1) [dev]
01:41:51,683 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-4) ISPN000079: Channel server local address is dev, physical addresses are [192.168.59.103:55200]
01:41:51,684 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-2) ISPN000079: Channel hibernate local address is dev, physical addresses are [192.168.59.103:55200]
01:41:51,683 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-8) ISPN000079: Channel web local address is dev, physical addresses are [192.168.59.103:55200]
01:41:51,688 INFO [org.infinispan.factories.GlobalComponentRegistry] (MSC service thread 1-2) ISPN000128: Infinispan version: Infinispan 'Infinite Darkness' 8.0.1.Final-redhat-1
01:41:51,697 INFO [org.infinispan.configuration.cache.EvictionConfigurationBuilder] (ServerService Thread Pool -- 68) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be passivated.
01:41:51,700 INFO [org.infinispan.configuration.cache.EvictionConfigurationBuilder] (ServerService Thread Pool -- 68) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be passivated.
01:41:51,702 INFO [org.infinispan.configuration.cache.EvictionConfigurationBuilder] (ServerService Thread Pool -- 71) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be passivated.
01:41:51,704 INFO [org.infinispan.configuration.cache.EvictionConfigurationBuilder] (ServerService Thread Pool -- 71) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be passivated.
01:41:51,705 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (MSC service thread 1-5) ISPN000079: Channel ejb local address is dev, physical addresses are [192.168.59.103:55200]
01:41:51,705 INFO [org.infinispan.configuration.cache.EvictionConfigurationBuilder] (ServerService Thread Pool -- 68) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be passivated.
01:41:51,709 INFO [org.infinispan.configuration.cache.EvictionConfigurationBuilder] (ServerService Thread Pool -- 68) ISPN000152: Passivation configured without an eviction policy being selected. Only manually evicted entities will be passivated.
01:41:51,986 INFO [org.jboss.as.clustering.infinispan] (ServerService Thread Pool -- 68) WFLYCLINF0002: Started routing cache from web container
01:41:51,986 INFO [org.jboss.as.clustering.infinispan] (ServerService Thread Pool -- 71) WFLYCLINF0002: Started cluster-test.war cache from web container
01:41:52,228 INFO [org.wildfly.extension.undertow] (ServerService Thread Pool -- 71) WFLYUT0021: Registered web context: /cluster-test
01:41:52,285 INFO [org.jboss.as.server] (management-handler-thread - 7) WFLYSRV0010: Deployed "cluster-test.war" (runtime-name: "cluster-test.war")

01:47:18,778 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (Incoming-2,ee,dev) ISPN000094: Received new cluster view for channel server: [dev]1 (2) [dev, dev]
01:47:18,780 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (Incoming-2,ee,dev) ISPN000094: Received new cluster view for channel web: [dev]1 (2) [dev, dev]
01:47:18,783 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (Incoming-2,ee,dev) ISPN000094: Received new cluster view for channel ejb: [dev]1 (2) [dev, dev]
01:47:18,785 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (Incoming-2,ee,dev) ISPN000094: Received new cluster view for channel hibernate: [dev]1 (2) [dev, dev]
01:47:19,827 INFO [org.infinispan.CLUSTER] (remote-thread--p5-t1) ISPN000310: Starting cluster-wide rebalance for cache routing, topology CacheTopology{id=1, rebalanceId=1, currentCH=DefaultConsistentHash{ns=80, owners = (1)[dev: 80+0]}, pendingCH=DefaultConsistentHash{ns=80, owners = (2)[dev: 40+40]}, unionCH=null, actualMembers=[dev, dev]}
01:47:19,849 INFO [org.infinispan.CLUSTER] (remote-thread--p5-t2) ISPN000310: Starting cluster-wide rebalance for cache cluster-test.war, topology CacheTopology{id=1, rebalanceId=1, currentCH=DefaultConsistentHash{ns=80, owners = (1)[dev: 80+0]}, pendingCH=DefaultConsistentHash{ns=80, owners = (2)[dev: 40+40]}, unionCH=null, actualMembers=[dev, dev]}
01:47:20,039 INFO [org.infinispan.CLUSTER] (remote-thread--p5-t2) ISPN000336: Finished cluster-wide rebalance for cache cluster-test.war, topology id = 1
01:47:20,085 INFO [org.infinispan.CLUSTER] (remote-thread--p5-t2) ISPN000336: Finished cluster-wide rebalance for cache routing, topology id = 1

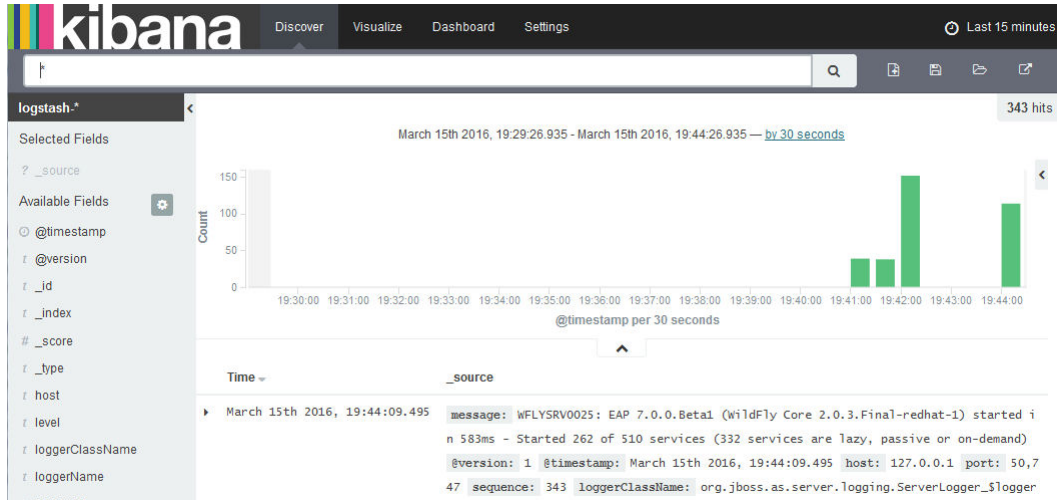
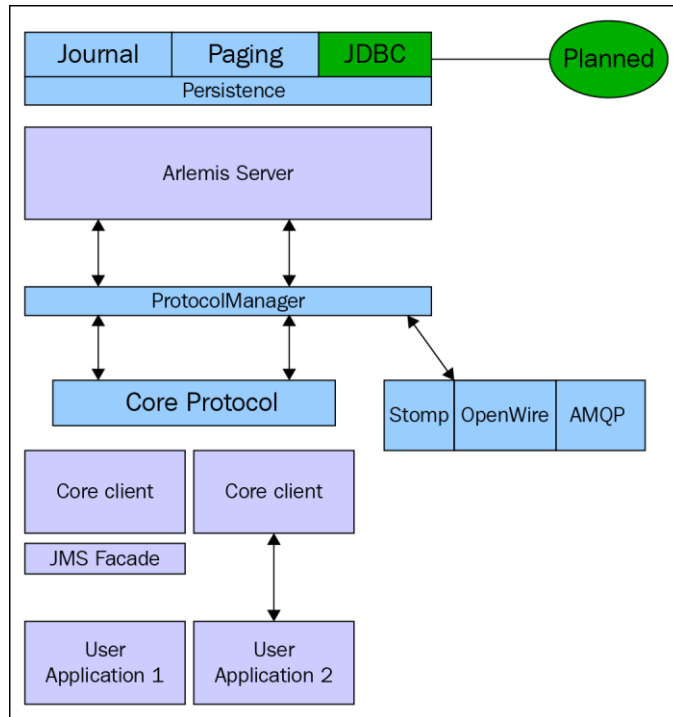




Chapter 7: Logging



```
localhost:9200
{
  "name" : "Optoman",
  "cluster_name" : "elasticsearch",
  "version" : {
    "number" : "2.2.0",
    "build_hash" : "8ff36d139e16f8720f2947ef62c8167a888992fe",
    "build_timestamp" : "2016-01-27T13:32:39Z",
    "build_snapshot" : false,
    "lucene_version" : "5.4.1"
  },
  "tagline" : "You Know, for Search"
}
```



Chapter 8: Configuring Database Connectivity

```
docker run -it --rm=true -p 3306:3306 -e MYSQL_ROOT_PASSWORD=root --name=mjbeap7_mysql mysql
Unable to find image 'mysql:latest' locally
Trying to pull repository docker.io/library/mysql ... latest: Pulling from library/mysql
f32095d4ba8a: Pull complete
9b607719a62a: Pull complete
077420be376c: Pull complete
4ccc44ce8a54: Pull complete
2b650acda9c9: Pull complete
4bf729879498: Pull complete
74ed6f421f3f: Pull complete
be67940d8706: Pull complete
7020fa944237: Pull complete
d18d6899b7ef: Pull complete
5d07762772f4: Pull complete
755dbdf60599: Pull complete
4102ac5c18f9: Pull complete
4e0aacde4bdd: Pull complete
87c87999729e: Pull complete
9ece564cf894: Pull complete
Digest: sha256:7665507aea0785e89e51c193381ec33ec8662d02cd5c995b9f31e432fcaaa541
Status: Downloaded newer image for docker.io/mysql:latest
```

```
# docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
888b9e38599b       mysql              "/entrypoint.sh mysql" 4 seconds ago      Up 35 seconds      0.0.0.0:3306->3306/tcp  mjbeap7_mysql
# docker stop 888b9e38599b
888b9e38599b
# docker run -d -p 3306:3306 -e MYSQL_ROOT_PASSWORD=root --name=mjbeap7_mysql mysql
621b065a0faf9d3c8093a21282602a698af2089211e8f008f28f757d0af0bb12
# docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
621b065a0faf        mysql              "/entrypoint.sh mysql" 4 seconds ago      Up 2 seconds       0.0.0.0:3306->3306/tcp  mjbeap7_mysql
```

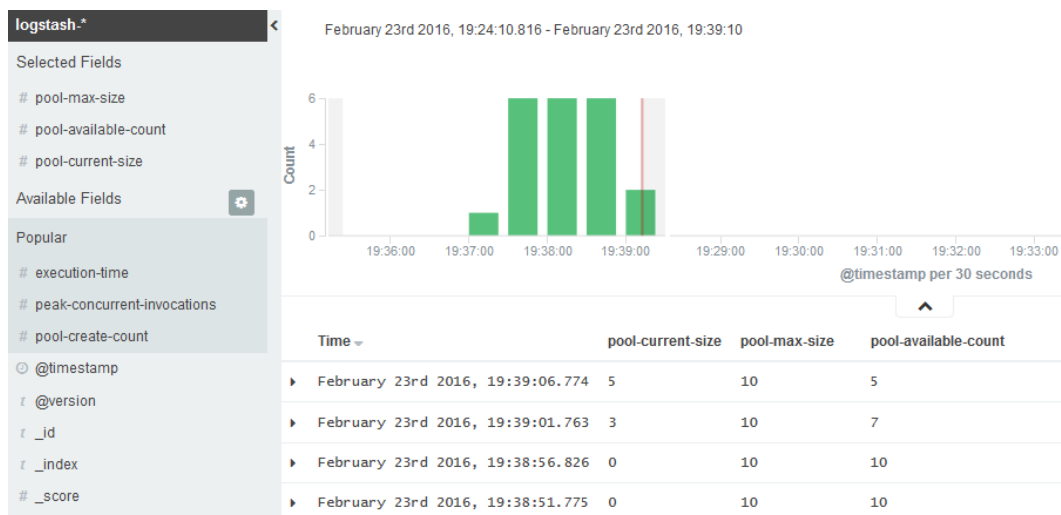
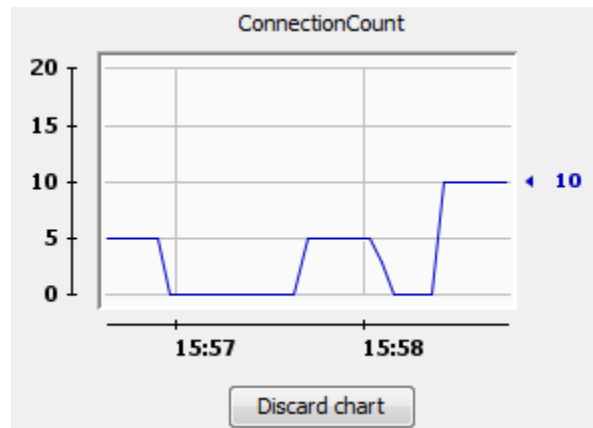
```
{
  "outcome" => "success",
  "result" => {
    "ActiveCount" => 5,
    "AvailableCount" => 20,
    "AverageBlockingTime" => 0L,
    "AverageCreationTime" => 69L,
    "AverageGetTime" => 0L,
    "AveragePoolTime" => 0L,
    "AverageUsageTime" => 0L,
    "BlockingFailureCount" => 0,
    "CreatedCount" => 5,
    "DestroyedCount" => 0,
    "IdleCount" => 5,
    "InUseCount" => 0,
    "MaxCreationTime" => 330L,
    "MaxGetTime" => 0L,
    "MaxPoolTime" => 0L,
    "MaxUsageTime" => 0L,
    "MaxUsedCount" => 1,
    "MaxWaitCount" => 0,
    "MaxWaitTime" => 0L,
    "TimedOut" => 0,
    "TotalBlockingTime" => 0L,
    "TotalCreationTime" => 346L,
    "TotalGetTime" => 0L,
    "TotalPoolTime" => 0L,
    "TotalUsageTime" => 0L,
    "WaitCount" => 0,
    "XACommitAverageTime" => 0L,
    "XACommitCount" => 0L,
    "XACommitMaxTime" => 0L,
    "XACommitTotalTime" => 0L,
    "XAEndAverageTime" => 0L,
    "XAEndCount" => 0L,
    "XAEndMaxTime" => 0L,
    "XAEndTotalTime" => 0L,
    "XAForgetAverageTime" => 0L,
    "XAForgetCount" => 0L,
    "XAForgetMaxTime" => 0L,
    "XAForgetTotalTime" => 0L,
    "XAPrepareAverageTime" => 0L,
    "XAPrepareCount" => 0L,
    "XAPrepareMaxTime" => 0L,
    "XAPrepareTotalTime" => 0L,
    "XARecoverAverageTime" => 0L,
    "XARecoverCount" => 0L,
    "XARecoverMaxTime" => 0L,
    "XARecoverTotalTime" => 0L,
    "XARollbackAverageTime" => 0L,
    "XARollbackCount" => 0L,
    "XARollbackMaxTime" => 0L,
    "XARollbackTotalTime" => 0L,
    "XAStartAverageTime" => 0L,
    "XAStartCount" => 0L,
    "XAStartMaxTime" => 0L,
    "XAStartTotalTime" => 0L,
    "statistics-enabled" => true
  }
}
```

```
./bin/vault.sh
WARNING JBOSSE_HOME may be pointing to a different installation - unpredictable results may occur.
```

```
JBoss Vault
JBOSSE_HOME: /opt/rh/eap7
JAVA: /opt/rh/jdk8/bin/java
```

```
*****
**** JBoss Vault *****
*****
Please enter a Digit:: 0: Start Interactive Session 1: Remove Interactive Session 2: Exit
0
Starting an interactive session
Enter directory to store encrypted files: /opt/rh/eap7
Enter Keystore URL: /opt/rh/eap7/vault.keystore
Enter Keystore password: jbosseap7
Enter Keystore password again: jbosseap7
Values match
Enter 8 character salt: 24681357
Enter iteration count as a number (e.g.: 44): 31
Enter Keystore Alias: vault
WFLYSEC0056: Initializing Vault
Mar 05, 2016 1:38:48 PM org.picketbox.plugins.vault.PicketBoxSecurityVault init
INFO: PBOX00361: Default Security Vault Implementation Initialized and Ready
WFLYSEC0048: Vault Configuration in WildFly configuration file:
*****
...
</extensions>
<vault>
  <vault-option name="KEYSTORE_URL" value="/opt/rh/eap7/vault.keystore"/>
  <vault-option name="KEYSTORE_PASSWORD" value="MASK-3sdaLJuMR0uYdai7eoCdyJ"/>
  <vault-option name="KEYSTORE_ALIAS" value="vault"/>
  <vault-option name="SALT" value="24681357"/>
  <vault-option name="ITERATION_COUNT" value="31"/>
  <vault-option name="ENC_FILE_DIR" value="/opt/rh/eap7"/>
</vault>
<management> ...
*****
WFLYSEC0057: Vault is initialized and ready for use
WFLYSEC0058: Handshake with Vault complete
Please enter a Digit:: 0: Store a secured attribute 1: Check whether a secured attribute exists 2: Remove secured attribute 3: Exit
0
Task: Store a secured attribute
Please enter secured attribute value (such as password) root
Please enter secured attribute value again root
Values match
Enter Vault Block:MySQLDS
Enter Attribute Name:password
WFLYSEC0047: Secured attribute value has been stored in Vault.
Please make note of the following:
*****
Vault Block:MySQLDS
Attribute Name:password
Configuration should be done as follows:
VAULT::MySQLDS::password::1
*****
Please enter a Digit:: 0: Store a secured attribute 1: Check whether a secured attribute exists 2: Remove secured attribute 3: Exit
3
```

Chapter 9: Configuring EAP 7 for Java EE Applications



logstash*

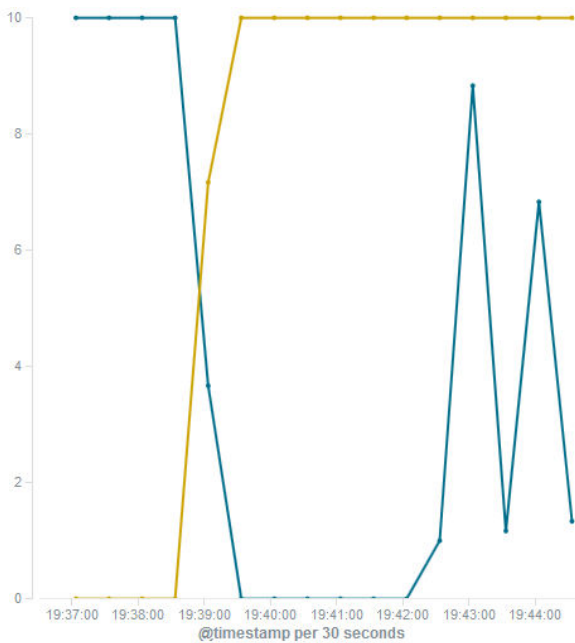
Data Options

metrics

- Y-Axis Average pool-available-count
- Y-Axis Average pool-current-size
- + Add metrics

buckets

- X-Axis @timestamp per 30 seconds
- + Add sub-buckets



Java Monitoring & Management Console

Connection Window Help

pid: 19588 jboss-modules.jar -mp /home/francesco/jboss/jboss-eap-7.0/modules/org.jboss.as.standalone -Djboss.home.dir=...

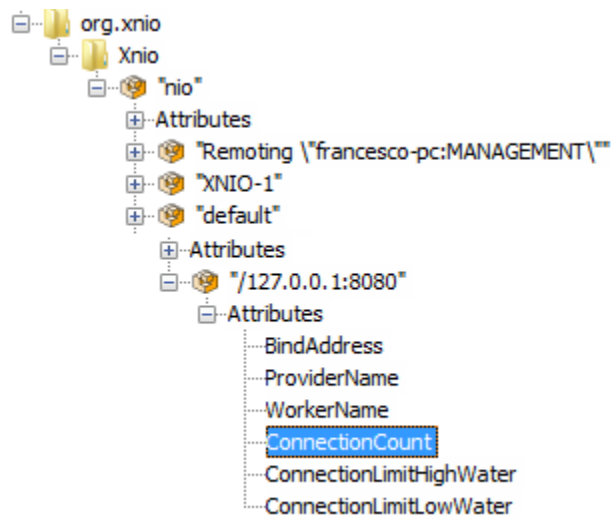
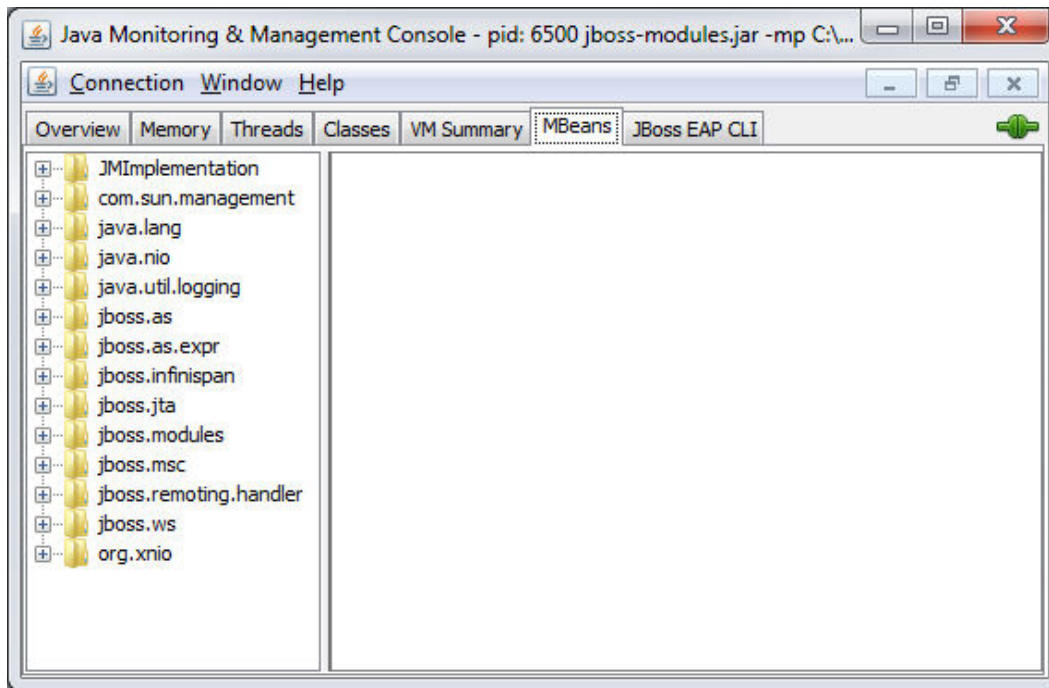
Overview Memory Threads Classes VM Summary MBeans JBoss EAP CLI

- JMImplementation
- com.sun.management
- java.lang
- java.nio
- java.util.logging
- jboss.as
- jboss.as.expr
- jboss.infinispan
- jboss.ita
- jboss.modules
- jboss.msc
- jboss.remoting.handler
- jboss.ws
- org.jboss.byteman
- SimpleHelper
 - Attributes
- org.xnio

| Attribute values | |
|------------------|-------------|
| Name | Value |
| Name | activeCount |
| Value | 3 |

Refresh

pid: 19588 jboss-modules.jar -mp /home/francesco/jboss/jbo...

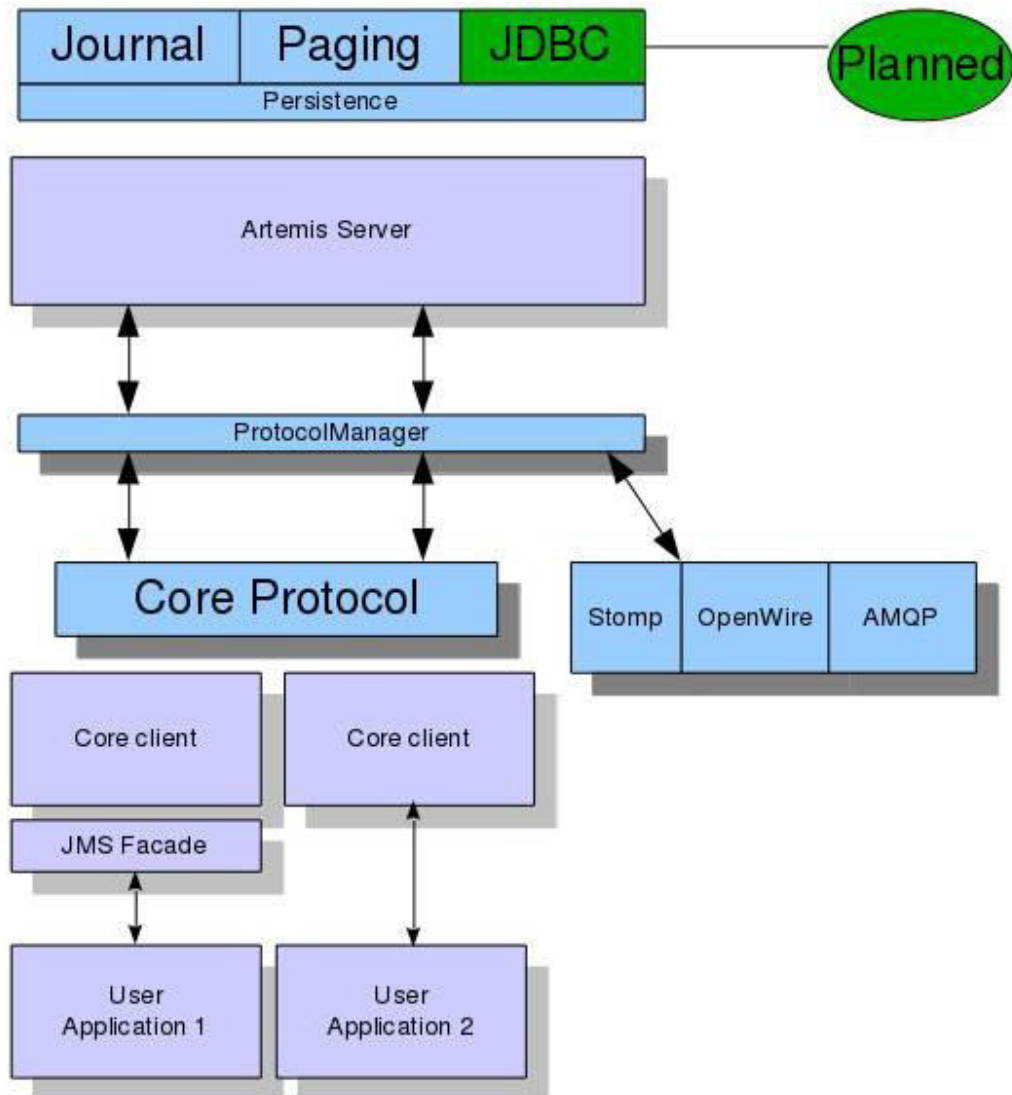


Attribute value

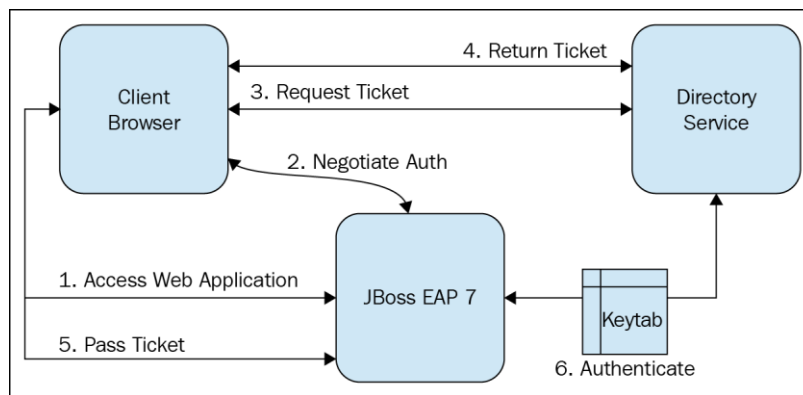
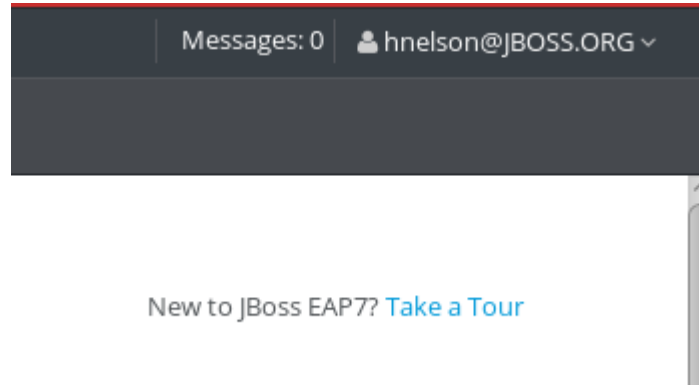
| Name | Value |
|-----------------|-----------|
| ConnectionCount | 10 |

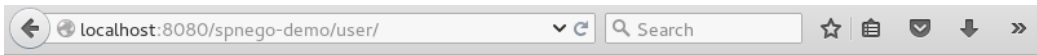
Refresh

Chapter 10: Messaging Administration



Chapter 11: Securing the Application Server



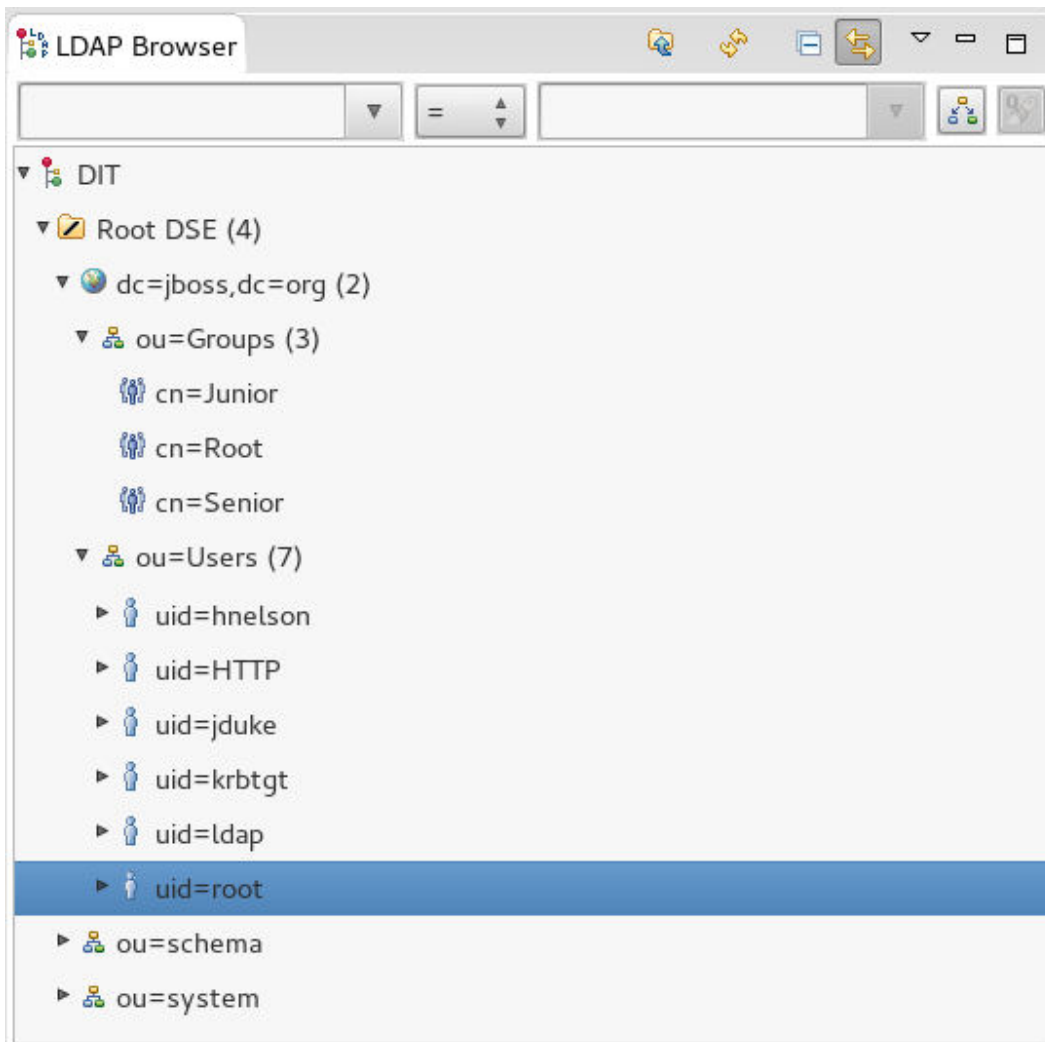


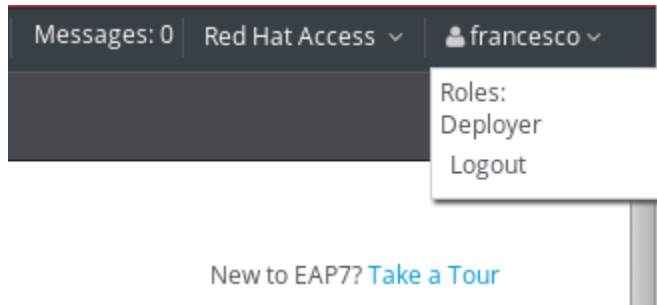
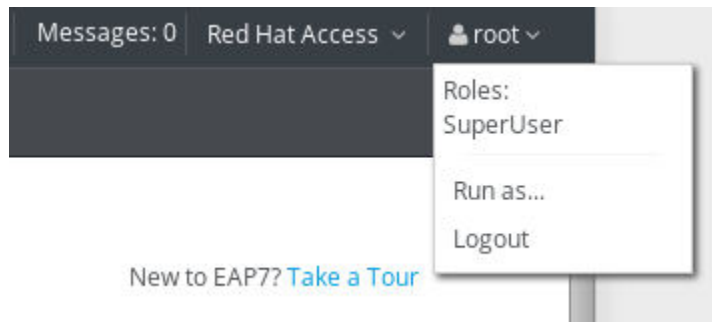
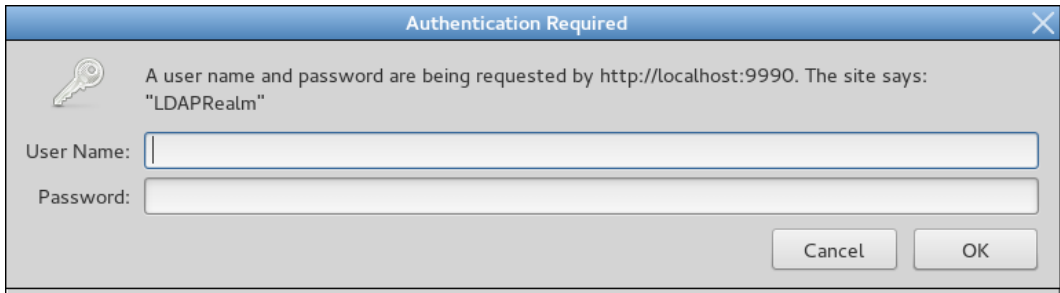
You are authorized to view user page

AuthType: SPNEGO
Principal: hnelson@JB055.ORG

- [Home page](#) - unprotected
- [User page](#) - only users with User role can access it

There is also a servlet which prints current status of HttpSession [unprotected version](#) and a version which [requires User role](#) - check session status - unprotected





RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 1 Red Hat Access francesco

Home Deployments Configuration Runtime

Deployment [Add](#)

Q

mysql-connector-java-5.1.15.jar

Deployment

A deployment represents anything that can be deployed (e.g. an application such as EJB-JAR, WAR, EAR, any kind of standard archive such as RAR or JBoss-specific deployment) into a server.

Common Configuration Tasks

Deploy and manage applications and other EE resources.

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 0 Red Hat Access francesco

Home Deployments Configuration Runtime

Server is running appropriately.

Standalone Server >

Monitor

JVM [View](#)

Environment

Log Files

Subsystems >

Standalone Server

Server name: localhost

The server configuration is up to date!

Messages: 0 Red Hat Access luigi

Roles:
Maintainer
Logout

New to EAP?? [Take a Tour](#)

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 0 Red Hat Access luigi

Home Deployments Configuration **Runtime**

| Server | Monitor | |
|-------------------|---|---|
| Standalone Server | JVM Environment Log Files Subsystems | Standalone Server Server name: localhost The server configuration is up to date! |

Messages: 0 Red Hat Access jim

Roles:
Administrator
Logout

New to EAP7? [Take a Tour](#)

Messages: 0 Red Hat Access jduke

Roles:
Maintainer
Logout

New to EAP7? [Take a Tour](#)

| Home Deployments Configuration Runtime Access Control Patching | | | | | | |
|--|---------|-----------|--------|------------|----------|--------|
| Browse By | Refresh | Group (3) | Add | Assignment | Role (1) | Add |
| Users | > | Junior | Remove | Exclude | Deployer | Remove |
| Groups | > | Root | | Include | | |
| Roles | > | Senior | | | | |

RED HAT JBOSS® ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 0 Red Hat Access domain-user

Home Deployments Configuration Runtime Access Control Patching

| Browse Domain By | Server Group (2) | Add | Server Groups |
|------------------|-------------------|-----|---|
| Hosts | main-server-group | > | <p>All server groups defined for this domain.</p> <p>A server group is a set of server instances that will be managed and configured as one. In a managed domain, all server instances are members of a server group. All server instances within a server group use the same profile and have the same deployment content.</p> |
| Server Groups | | > | |

RED HAT JBOSS® ENTERPRISE APPLICATION PLATFORM 7.0.0.Beta1 Messages: 0 Red Hat Access domain-user

Home Deployments Configuration Runtime Access Control Patching

| Browse Domain By | Host (1) | Refresh | Hosts |
|------------------|----------|---------|---|
| Hosts | master | > | <p>All hosts that are members of this domain.</p> <p>In a managed domain, multiple server instances are managed from a single control point. A domain can span multiple physical or virtual machines, with all server instances under the control of a host</p> |
| Server Groups | | > | |

Chapter 12: New Security Features of EAP 7

RED HAT SINGLE SIGN-ON Administrator

Master ▼ Master

Add realm | **General** | Login | Keys | Email | Themes | Cache | Tokens | Initial Access Tokens | Security Defenses

Name *

Display name

HTML Display name

Enabled

Left sidebar: Realm, Settings, Clients, Client, Templates, Roles, Identity, Providers, User, Federation

Add realm

Import

Name *

Enabled

| | |
|-----------------------------|---|
| Console Display Name ? | <input type="text" value="ldap-apacheds"/> |
| Priority ? | <input type="text" value="1"/> |
| Edit Mode ? | <input type="text" value="WRITABLE"/> |
| Sync Registrations ? | <input checked="" type="checkbox"/> |
| * Vendor ? | <input type="text"/> |
| * Username LDAP attribute ? | <input type="text" value="uid"/> |
| * RDN LDAP attribute ? | <input type="text" value="uid"/> |
| * UUID LDAP attribute ? | <input type="text" value="entryUUID"/> |
| * User Object Classes ? | <input type="text" value="inetOrgPerson, organizationalPerson"/> |
| * Connection URL ? | <input type="text" value="ldap://localhost:10389"/> |
| * Users DN ? | <input type="text" value="ou=Users,dc=jboss,dc=org"/> |
| * Authentication Type ? | <input type="text" value="simple"/> |
| * Bind DN ? | <input type="text" value="uid=hnelson,ou=Users,dc=jboss,dc=org"/> |
| * Bind Credential ? | <input type="password" value="•••••"/> |
| Custom User LDAP Filter ? | <input type="text" value="LDAP Filter"/> |

Ldap-demo

User Federation > Ldap-apacheds > User Federation Mappers

Configure

- Realm Settings
- Clients
- Client Templates
- Roles
- Identity Providers
- User Federation

Ldap-apacheds

Settings Mappers

| Name | Category | Type |
|------|----------|------|
|------|----------|------|

Group

| | |
|------------------------------|---|
| ID | <input type="text" value="01950565-8d21-4753-8b4e-b111a444711f"/> |
| Name * | <input type="text" value="Group"/> |
| Mapper Type | <input type="text" value="Role mappings"/> |
| LDAP Roles DN | <input type="text" value="ou=Groups,dc=jboss,dc=org"/> |
| Role Name LDAP Attribute | <input type="text" value="cn"/> |
| Role Object Classes | <input type="text" value="groupOfUniqueNames"/> |
| Membership LDAP Attribute | <input type="text" value="uniqueMember"/> |
| Membership Attribute Type | <input type="text" value="DN"/> |
| LDAP Filter | <input type="text"/> |
| Mode | <input type="text" value="LDAP_ONLY"/> |
| User Roles Retrieve Strategy | <input type="text" value="LOAD_ROLES_BY_MEMBER_ATTRIBUTE"/> |
| Use Realm Roles Mapping | <input checked="" type="checkbox"/> |
| Client ID | <input type="text" value="Select One..."/> |

Clients ?

| Client ID | Enabled | Base URL | Actions | | |
|--|---------|---|---------|--------|--------|
| account | True | /auth/realms/ldap-demo/account | Edit | Export | Delete |
| admin-cli | True | Not defined | Edit | Export | Delete |
| broker | True | Not defined | Edit | Export | Delete |
| realm-management | True | Not defined | Edit | Export | Delete |
| security-admin-console | True | /auth/admin/ldap-demo/console/index.html | Edit | Export | Delete |

Add Client

Import

Select file 

Client ID * ?

ldap-app

Client Protocol ?

openid-connect

Client Template ?

Root URL ?

ldap-portal

Save

Cancel

Clients ?

| Client ID | Enabled | Base URL | Actions | | |
|--|---------|---|---------|--------|--------|
| account | True | /auth/realms/ldap-demo/account | Edit | Export | Delete |
| admin-cli | True | Not defined | Edit | Export | Delete |
| broker | True | Not defined | Edit | Export | Delete |
| ldap-app | True | /ldap-portal | Edit | Export | Delete |
| realm-management | True | Not defined | Edit | Export | Delete |
| security-admin-console | True | /auth/admin/ldap-demo/console/index.html | Edit | Export | Delete |

Root URL ?

* Valid Redirect URIs ? -
 +

Base URL ?

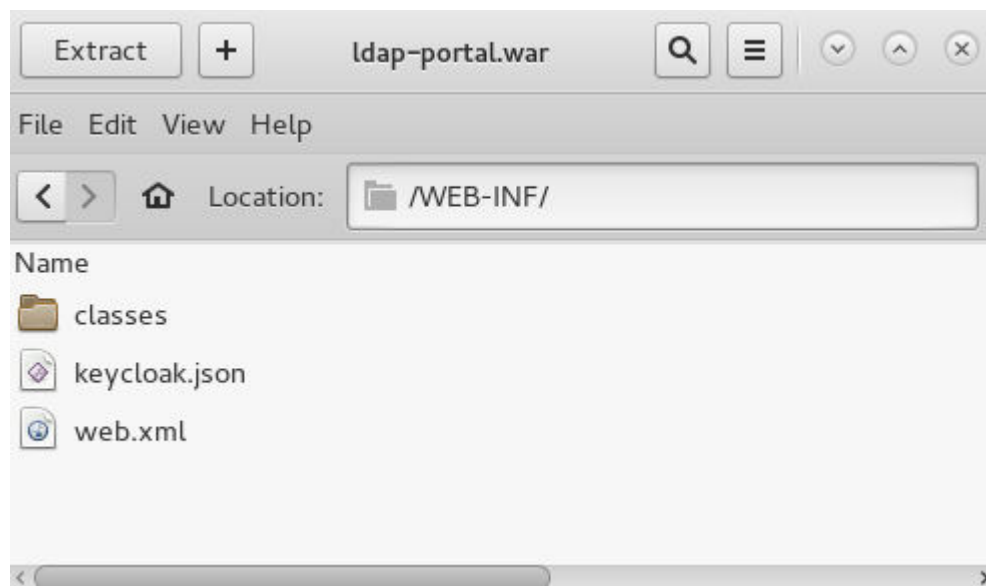
Admin URL ?

Web Origins ? +

Ldap-app

[Settings](#) [Credentials](#) [Roles](#) [Mappers](#) [Scope](#) [Revocation](#) [Sessions](#) [Offline Access](#) [Clustering](#) [Installation](#)

Format Option



LDAP-DEMO

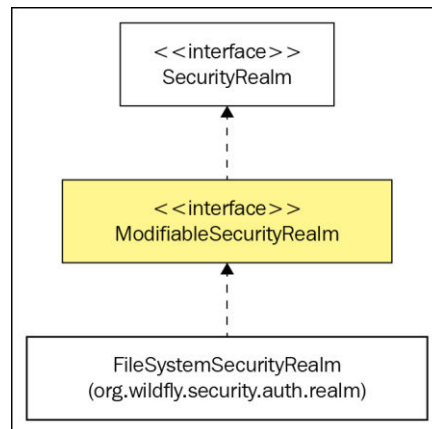
Username or email

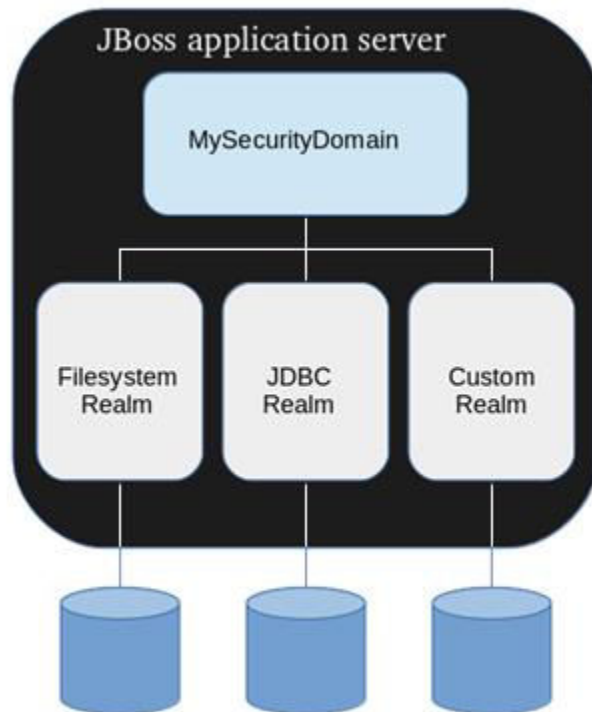
hnelson

Password


••••••

Log in





Authentication Required

 A user name and password are being requested by http://localhost:8080. The site says: "Secu by Elytron"

User Name:

Password:

Cancel OK

Redirected to https://

Welcome to Red Hat Single Sign-On

Your Red Hat Single Sign-On is running.

Please create an initial admin user to get started.

Username

Password

Password confirmation

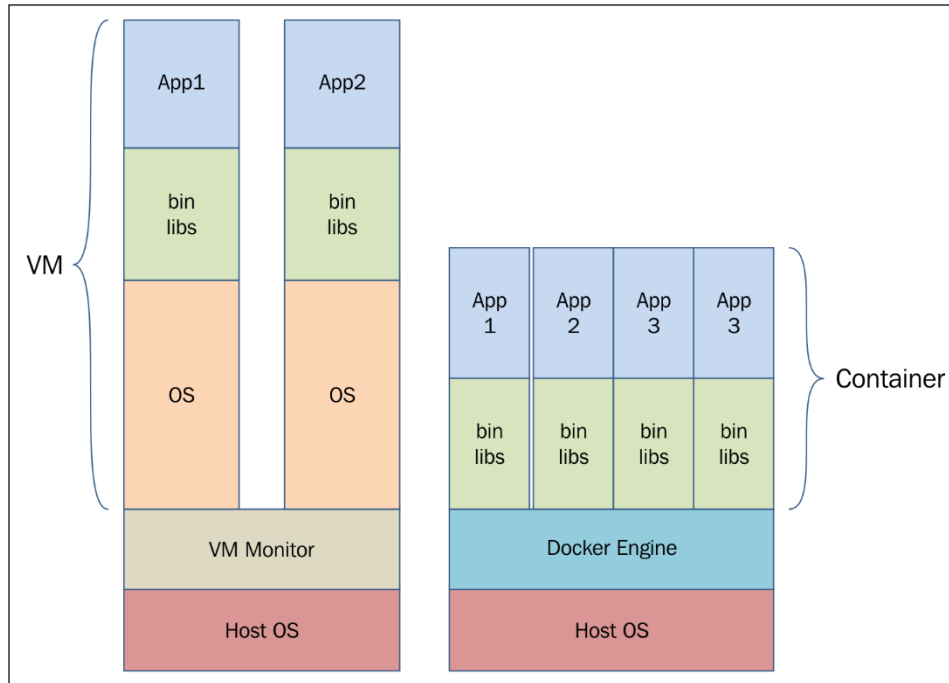
[Administration Console](#) | [Documentation](#)

RED HAT® SINGLE SIGN ON

Username or email

Password

Chapter 13: Using EAP 7 with Docker



← → ↻ 172.17.0.4:8080

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 7

Welcome to JBoss EAP 7

Your Red Hat JBoss Enterprise
Application Platform is running.

[Administration Console](#) | [Documentation](#) | [Online User Groups](#)

To replace this page set "enable-welcome-root" to false in your server configuration and deploy your own war with / as its context path.

mod_cluster/1.2.6.Final

[Auto Refresh](#) [show DUMP output](#) [show INFO output](#)

Node c1eb2b80a623 (ajp://0.0.0.0:8009):

[Enable Contexts](#) [Disable Contexts](#)

Balancer: mycluster,LBGroup: ,Flushpackets: Off,Flushwait: 10000,Ping: 10000000,Smax: 2,Ttl: 60000000,

Node 37e9a81897a9 (ajp://0.0.0.0:8009):

[Enable Contexts](#) [Disable Contexts](#)

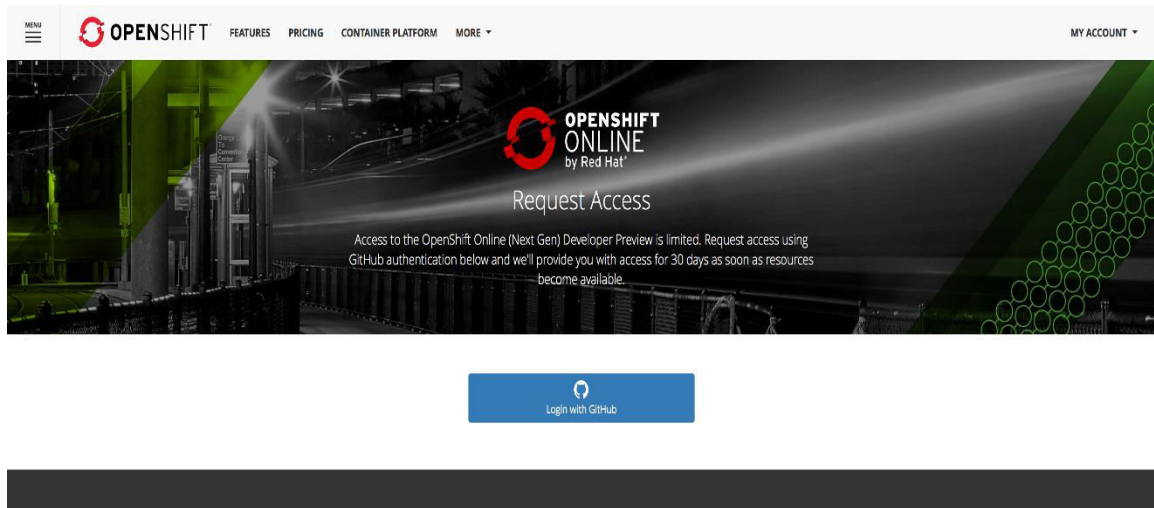
Balancer: mycluster,LBGroup: ,Flushpackets: Off,Flushwait: 10000,Ping: 10000000,Smax: 2,Ttl: 60000000,

Node a941a7fb1928 (ajp://0.0.0.0:8009):

[Enable Contexts](#) [Disable Contexts](#)

Balancer: mycluster,LBGroup: ,Flushpackets: Off,Flushwait: 10000,Ping: 10000000,Smax: 2,Ttl: 60000000,

Chapter 14: Running EAP 7 on the Cloud Using OpenShift





Sign into **GitHub**
to continue to **OpenShift Online 3**
Developer Preview

Username or email address

Password

[Forgot password?](#)

Sign in

New to GitHub? [Create an account.](#)

Authorize application

OpenShift Online 3 Developer Preview Registration by @openshift would like permission to access your account



Review permissions

Public data only
Limited access to your public data

Authorize application

OpenShift Online 3 Developer Preview Registration

Register for the OpenShift Online 3 Developer Preview.

[Visit application's website](#)

[Learn more about OAuth](#)

Full Name* ✓

Email* ✓

GitHub Username*

GitHub ID*

Company / School* ✓

Job Role* ✓

Country* ✓

Agree with the Terms and Conditions ✓

REGISTER



Access to the Developer Preview is limited. Your request has been received and you have been added to the waiting list until resources become available. We will notify you by email when your account is created.

Ready to Get Started Now?

Running OpenShift Origin on your local machine is fast and easy.



HAVE DOCKER? GET STARTED INSTANTLY:

First, download the latest client tools for your platform.

Next, run `oc cluster up --version=v1.3.0-alpha.1`

If you're running with Docker machine, use `--docker-machine=NAME` or `--create-machine`.

That's it - you're running a full Kubernetes and OpenShift cluster on your laptop. Once you're finished, check out the Getting Started Guide in our docs.



NO DOCKER? NO PROBLEM!

Simply download and run the All-in-One Virtual Machine with Vagrant. The full instructions are available at openshift.org/vm/.



Hi Luigi Fugaro,

Welcome to the OpenShift Online (Next Gen) Developer Preview!

Your user account is ready. Please keep this email for future reference:

GitHub Username: foogaro

Web Console URL: console.preview.openshift.com

API URL: api.preview.openshift.com/api/

Registry URL: registry.preview.openshift.com

You can [log in](#) to the web console with the above GitHub username.

Thanks,

The OpenShift Team

Welcome to OpenShift.

OpenShift helps you quickly develop, host, and scale applications.
Create a project for your application.

[New Project](#)

To learn more, visit the OpenShift [documentation](#).

New Project

* Name

A unique name for the project.

Display Name

Description

[Create](#)

[Cancel](#)

Mastering JBoss EAP 7 > Add to Project

Select Image or Template

Choose from web frameworks, databases, and other components to add content to your project.

Filter by keyword Browse ▾

- Builder Image** — Builds images from source code in a Git repository.
- Template** — Creates a predefined set of resources.
- Quickstart** — Provides a skeleton for developing an application.

Instant Apps

jenkins-persistent
INSTANT-APP JENKINS

Java

wildfly:10.0
BUILDER WILDFLY JAVA

wildfly:latest
BUILDER WILDFLY JAVA

PHP

php:5.5
BUILDER PHP

php:5.6
BUILDER PHP

php:latest

xPaaS

jboss-eap64-openshift:1.3
BUILDER EAP JAVAEE JAVA JBOSS XPAAS

jboss-websvr30-tomcat8-openshift:1.2
BUILDER TOMCAT TOMCAT8 JAVA JBOSS XPAAS

eap64-mysql-persistent-s2i
Version: 1.2.0
QUICKSTART EAP MYSQL JAVAEE JAVA DATABASE
JBOSS XPAAS

jws30-tomcat8-mongodb-persistent-s2i
Version: 1.2.0
QUICKSTART TOMCAT TOMCAT8 MONGODB JAVA
DATABASE JBOSS XPAAS

Ruby

ruby:2.0
BUILDER RUBY

Mastering JBoss EAP 7 » Add to Project » wildfly



wildfly

Version 10.0

Build and run Java applications on Wildfly 10.0

* Name

wfx-mjeap7

Identifies the resources created for this application.

* Git Repository URL

https://github.com/mjbeap7/openshift.git

Sample repository for wildfly: https://github.com/bparees/openshift-jee-sample.git [Try it](#)[Show advanced routing, build, and deployment options](#)

Create

Cancel

Routing

[About Routing](#) Create a route to the application

Hostname

www.example.com

Public hostname for the route. If not specified, a hostname is generated.

Path

/

Path that the router watches to route traffic to the service.

Target Port

8080/TCP

Target port for traffic.

[Show options for secured routes](#)

Build Configuration

[About Build Configuration](#)

- Configure a webhook build trigger [?](#)
- Automatically build a new image when the builder image changes [?](#)
- Automatically build a new image when the build configuration changes

Environment Variables (Build and Runtime) [?](#)

| Name | Value | Add |
|------|-------|-----|
|------|-------|-----|

Deployment Configuration

[About Deployment Configuration](#)

Autodeploy when

- New image is available
- Deployment configuration changes

Environment Variables (Runtime only) [?](#)

| Name | Value | Add |
|------|-------|-----|
|------|-------|-----|

| | | |
|------------------|--|--|
| BASH_ENV | /opt/app-root/etc/scl_enable | |
| ENV | /opt/app-root/etc/scl_enable | |
| HOME | /opt/app-root/src | |
| MAVEN_VERSION | 3.3.3 | |
| PATH | /opt/app-root/src/bin:/opt/app-root/bin:/us... | |
| PROMPT_COMMAND | ./opt/app-root/etc/scl_enable | |
| STI_SCRIPTS_PATH | /usr/libexec/s2i | |
| STI_SCRIPTS_URL | image:///usr/libexec/s2i | |
| WILDFLY_VERSION | 10.0.0.Final | |

Scaling

[About Scaling](#)

Replicas:

Resource Limits

[About Resource Limits](#)

Memory 250 MIB min to 1 GIB max

The amount of Memory the container is limited to use.

Labels

[About labels](#)

Each label is applied to each created resource.

| | | |
|-----------------------------------|------------------------------------|------------------------------------|
| <input type="text" value="Name"/> | <input type="text" value="Value"/> | <input type="button" value="Add"/> |
|-----------------------------------|------------------------------------|------------------------------------|

OPENSIFT ONLINE

[?](#) Luigi Fugaro

[Mastering JBoss EAP 7](#) > [Add to Project](#) > [wfk-mjeap7](#) > [Next Steps](#)

Completed. [Go to overview.](#)

Manage your app

The web console is convenient, but if you need deeper control you may want to try our command line tools.

Command line tools

Download and install the `oc` command line tool. After that, you can start by logging in, switching to this particular project, and displaying an overview of it, by doing:

```
oc login https://api.preview.openshift.com
oc project mjeap7
oc status
```

For more information about the command line tools, check the [CLI Reference](#) and [Basic CLI Operations](#).

Making code changes

A GitHub [webhook trigger](#) has been created for the `wfk-mjeap7` build config.

You can now set up the webhook in the GitHub repository settings if you own it, in <https://github.com/mjbeap2/openshift/settings/hooks>, using the following payload URL:

```
https://api.preview.openshift.com/oapi/v1/namespaces/mjeap7/t
```

Project Mastering JBoss EAP 7 Add to project Luigi Fugaro

Overview

Filter by label Add

SERVICE: WFX-MJEP7 8080/TCP --> 8080
<http://wfx-mjeap7-mjeap7.44fs.preview.openshifta...>

DEPLOYMENT: WFX-MJEP7, #1 5 minutes ago from image change

1 pod

CONTAINER: WFX-MJEP7

- Image: mjeap7/wfx-mjeap7 (72ea6d1) 480.9 MiB
- Build: wfx-mjeap7, #2
- Source: Removed some useless images (c22445d)
- Ports: 8080/TCP

Details

Select an object to see more details.

A **pod** contains one or more Docker containers that run together on a node, containing your application code.

A **service** groups pods and provides a common DNS name and an optional, load-balanced IP address to access them.

A **deployment** is an update to your application, triggered by a changed image or configuration.



Welcome to WildFly 10

Your WildFly 10 is running.




[Documentation](#) | [Quickstarts](#) | [Administration Console](#)

[WildFly Project](#) | [User Forum](#) | [Report an issue](#)

JBoss Community

To replace this page simply deploy your own war with / as its context path.
 To disable it, remove the "welcome-content" handler for location / in the undertow subsystem.

Alright, that hook has been successfully deleted. ✕

 **mjbeap7 / openshift**  1  0  0

[Code](#) [Issues 0](#) [Pull requests 0](#) [Wiki](#) [Pulse](#) [Graphs](#) **Settings**

- Options
- Collaborators & teams
- Branches
- Webhooks & services**
- Deploy keys

Webhooks

[Add webhook](#)

Webhooks allow external services to be notified when certain events happen within your repository. When the specified events happen, we'll send a POST request to each of the URLs you provide. [Learn more in our Webhooks Guide.](#)

We will also send events from this repository to your [organization webhooks](#).

Services

[Add service](#)



GitHub integrations directory

Everything you need to build software is now in one place. The directory lists some of the highest quality integrations made to help you and your team build software better, together.

[Browse the directory](#)

Services are pre-built integrations that perform certain actions when events occur on GitHub.



- Options
- Collaborators & teams
- Branches
- Webhooks & services**
- Deploy keys

Webhooks / Add webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in [our developer documentation](#).

Payload URL *

Content type

Secret

By default, we verify SSL certificates when delivering payloads. [Disable SSL verification](#)

Which events would you like to trigger this webhook?

- Just the push event.
- Send me **everything**.
- Let me select individual events.

Active
We will deliver event details when this hook is triggered.



```

Luigi-MacBook-Pro:openshift foogaro$ vim src/main/webapp/WEB-INF/jboss-web.xml
Luigi-MacBook-Pro:openshift foogaro$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        src/main/webapp/WEB-INF/jboss-web.xml

nothing added to commit but untracked files present (use "git add" to track)
Luigi-MacBook-Pro:openshift foogaro$ git add .
Luigi-MacBook-Pro:openshift foogaro$ git commit -m "Added jboss-web.xml file to change applicaiton's context path to root"
[master a326f10] Added jboss-web.xml file to change applicaiton's context path to root
 1 file changed, 3 insertions(+)
 create mode 100644 src/main/webapp/WEB-INF/jboss-web.xml
Luigi-MacBook-Pro:openshift foogaro$ git push
Username for 'https://github.com': foogaro
Password for 'https://github.com':
Counting objects: 7, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (7/7), 604 bytes | 0 bytes/s, done.
Total 7 (delta 1), reused 0 (delta 0)
To https://github.com/mjbeap7/openshift.git
 c22445d..a326f10 master -> master
Luigi-MacBook-Pro:openshift foogaro$ █

```

Project Mastering JBoss EAP 7 Add to project Luigi Fugaro

Overview

Filter by label Add

SERVICE: WFX-MJEAP7 8080/TCP → 8080
<http://wfx-mjeap7-mjeap7.44fs.preview.openshifta...>

Build wfx-mjeap7 #3 is running. A new deployment will be created automatically once the build completes.
[View Log](#)

DEPLOYMENT: WFX-MJEAP7, #1 24 minutes ago from image change

CONTAINER: WFX-MJEAP7
 Image: mjeap7/wfx-mjeap7 (72ea6d1) 480.9 MiB
 Build: wfx-mjeap7, #2
 Source: Removed some useless images (c22445d)
 Ports: 8080/TCP

1 pod

Details

Select an object to see more details.

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Mastering JBoss Enterprise Application Platform 7

Simple web application to run on



OPENSIFT
