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- CentOS 6.5
- JBoss EAP 6.2.0
- Sun JDK 7

Kernel/TCP Parameter

OS JBoss Socket Buffer WARN 가

TCP Parameter

Parameter

```
sysctl -w net.core.rmem_default=26214400
sysctl -w net.core.wmem_default=1048576
sysctl -w net.core.rmem_max=26214400
sysctl -w net.core.wmem_max=1048576
```

TCP Parameter

```
net.core.wmem_max = 1048576
net.core.rmem_max = 26214400
net.core.rmem_default = 26214400
net.core.wmem_default = 1048576
```

=====

=====

```
<WRAP prewrap>
<code vim>
yum -y install unzip
```

JBoss

(wasadmin)

(wasadmin)

```
groupadd wasadmin
useradd -M -g wasadmin wasadmin
```

JBoss (<http://www.jboss.org/jbossas/downloads>)

JBoss EAP 6.2.0 GA

JBoss

```
/app/jboss-as { jboss-eap-6.2
                 { nodes { node01
                           { node02
                             { ...
/ app/webapps/deployments
/ var/log/jboss-as
```

Standalone

```
mkdir -p /app/jboss-as/nodes
```

Web Application

```
mkdir -p /app/webapps/deployments
```

JBoss

JBoss Server

JBoss

```
cp jboss-eap-6.2.0.zip /app/jboss-as
cd /app/jboss-as
unzip jboss-eap-6.2.0.zip
```

JBoss

```
rm -f /app/jboss-as/jboss-eap-6.2.0.zip
```

JBoss Clustering Node

Node

```
mkdir -p /var/log/jboss-as
```

Standalone Node

JBoss

standalone

```
cp -R /app/jboss-as/jboss-eap-6.2/standalone /app/jboss-as/nodes
mv /app/jboss-as/nodes/standalone /app/jboss-as/nodes/node01
```

Shell Script

JBoss Clustering Node

jboss-env.conf -

JBoss Node

jboss-env.conf

```
vi /app/jboss-as/nodes/node01/jboss-env.conf
```

```
JAVA_HOME=/opt/jdk1.7.0_55
```

```
JBOSS_NODE_NAME=node01
```

```
JBOSS_PORT_OFFSET=100
```

```
JBOSS_USER=wasadmin
```

```
JBOSS_HOME=/app/jboss-as/jboss-eap-6.2
```

```
JBOSS_NODE_BASE_DIR=/app/jboss-as/nodes
```

```
JBOSS_PIDFILE=/var/run/jboss-as/jboss-as- $\$$ JBOSS_NODE_NAME.pid
```

```
JBOSS_CONFIG=standalone-ha.xml
```

```
JBOSS_BASE_LOG_DIR=/var/log/jboss-as
```

```
JBOSS_CONSOLE_LOG= $\$$ JBOSS_BASE_LOG_DIR/ $\$$ JBOSS_NODE_NAME-console.log
```

```
JBOSS_GC_LOG= $\$$ JBOSS_BASE_LOG_DIR/ $\$$ JBOSS_NODE_NAME-gc.log
```

```
JBOSS_BIND_ADDR=0.0.0.0
```

```
JBOSS_MANAGEMENT_ADDR=127.0.0.1
```

```
JBOSS_CONTROLLER_IP=$JBOSS_MANAGEMENT_ADDR
JBOSS_MULTICAST_ADDR=230.0.0.4
JBOSS_JMS_MULTICAST_ADDR=231.7.0.1
JBOSS_MODCLUSTER_MULTICAST_ADDR=224.0.1.105
```

```
LAUNCH_JBOSS_IN_BACKGROUND=true
```

```
STARTUP_WAIT=30
SHUTDOWN_WAIT=30
```

jboss-env.sh -

```
vi /app/jboss-as/nodes/node01/jboss-env.sh
```

```
/app/jboss-as/nodes/node01/jboss-env.shShell
```

```
#!/bin/sh
```

```
DATE=`date +%Y%m%d%H%M%S` BASE_DIR=$(dirname $0)
```

```
export JBOSS_CONF=$BASE_DIR/jboss-env.conf
```

```
[ -r "$JBOSS_CONF" ] && . "$JBOSS_CONF"
```

```
let JBOSS_CONTROLLER_PORT=9999+$JBOSS_PORT_OFFSET export JBOSS_CONTROLLER_PORT
```

```
##### JBoss System module and User module directory ##### export
JBOSS_MODULEPATH=$JBOSS_HOME/modules:$JBOSS_HOME/modules/ext
```

```
# JVM Options : Server export JAVA_OPTS="-server $JAVA_OPTS"
```

```
# JVM Options : Memory export JAVA_OPTS=" $JAVA_OPTS -Xms1024m -Xmx1024m -
XX:MaxPermSize=256m" export JAVA_OPTS=" $JAVA_OPTS -XX:+PrintGCTimeStamps " export
JAVA_OPTS=" $JAVA_OPTS -XX:+PrintGCDetails " export JAVA_OPTS=" $JAVA_OPTS -
Xloggc:$JBOSS_GC_LOG" export JAVA_OPTS=" $JAVA_OPTS -XX:+UseParallelGC " #export
JAVA_OPTS=" $JAVA_OPTS -XX:+UseConcMarkSweepGC " export JAVA_OPTS=" $JAVA_OPTS -
XX:+ExplicitGCInvokesConcurrent " export JAVA_OPTS=" $JAVA_OPTS -XX:-
HeapDumpOnOutOfMemoryError "
```

```
# Linux Large Page Setting #export JAVA_OPTS=" $JAVA_OPTS -XX:+UseLargePages " export
JAVA_OPTS=" $JAVA_OPTS -verbose:gc" export JAVA_OPTS=" $JAVA_OPTS -
Djava.net.preferIPv4Stack=true" export JAVA_OPTS=" $JAVA_OPTS -
Dorg.jboss.resolver.warning=true" export JAVA_OPTS=" $JAVA_OPTS -
Dsun.rmi.dgc.client.gcInterval=3600000 " export JAVA_OPTS=" $JAVA_OPTS -
Dsun.rmi.dgc.server.gcInterval=3600000" export JAVA_OPTS=" $JAVA_OPTS -
```

```

Djboss.modules.system.pkgs=org.jboss.byteman" export JAVA_OPTS=" $JAVA_OPTS -
Djava.awt.headless=true" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.server.base.dir=$JBASS_NODE_BASE_DIR/$JBASS_NODE_NAME" export JAVA_OPTS="
$JAVA_OPTS -Djboss.server.log.dir=$JBASS_BASE_LOG_DIR" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.socket.binding.port-offset=$JBASS_PORT_OFFSET" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.node.name=$JBASS_NODE_NAME"

export JAVA_OPTS=" $JAVA_OPTS -Djboss.bind.address.management=$JBASS_MANAGEMENT_ADDR"
export JAVA_OPTS=" $JAVA_OPTS -Djboss.bind.address=$JBASS_BIND_ADDR" #export JAVA_OPTS="
$JAVA_OPTS -Djboss.bind_addr=$JBASS_MULTICAST_ADDR" #export JAVA_OPTS=" $JAVA_OPTS -
Djboss.default.jgroups.stack=tcp" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.default.multicast.address=$JBASS_MULTICAST_ADDR" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.messaging.group.address=$JBASS_JMS_MULTICAST_ADDR" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.modcluster.multicast.address=$JBASS_MODCLUSTER_MULTICAST_ADDR" export JAVA_OPTS="
$JAVA_OPTS -Dorg.jboss.as.logging.per-deployment=false" export JAVA_OPTS=" $JAVA_OPTS -
Dserver.mode=local"

export JAVA_OPTS=" $JAVA_OPTS -
Djboss.server.config.user.dir=$JBASS_DOMAIN_BASE_DIR/$JBASS_DOMAIN_NAME/configuration"
export JAVA_OPTS=" $JAVA_OPTS -
Djboss.domain.config.user.dir=$JBASS_DOMAIN_BASE_DIR/$JBASS_DOMAIN_NAME/configuration"

export LD_LIBRARY_PATH=$LD_LIBRARY_PATH

echo
"=====
=====" echo "JAVA_HOME=$JAVA_HOME" echo "JBASS_HOME=$JBASS_HOME" echo
"JBASS_NODE_NAME=$JBASS_NODE_NAME" echo
"JBASS_NODE_BASE_DIR=$JBASS_NODE_BASE_DIR" echo "JBASS_CONFIG=$JBASS_CONFIG"

echo "JBASS_BIND_ADDR=$JBASS_BIND_ADDR" echo "JBASS_PORT_OFFSET=$JBASS_PORT_OFFSET"
echo "JBASS_MULTICAST_ADDR=$JBASS_MULTICAST_ADDR" echo
"JBASS_CONTROLLER=$JBASS_CONTROLLER_IP:$JBASS_CONTROLLER_PORT"

echo "JBASS_PIDFILE=$JBASS_PIDFILE" echo "JBASS_CONSOLE_LOG=$JBASS_CONSOLE_LOG" echo
"JBASS_GC_LOG=$JBASS_GC_LOG" echo
"=====
=====" 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
65 66 67 68 69 70 71 72 73 #!/bin/sh

DATE=`date +%Y%m%d%H%M%S` BASE_DIR=$(dirname $0)

export JBASS_CONF=$BASE_DIR/jboss-env.conf

[ -r "$JBASS_CONF" ] && . "$JBASS_CONF"

let JBASS_CONTROLLER_PORT=9999+$JBASS_PORT_OFFSET export JBASS_CONTROLLER_PORT

##### JBoss System module and User module directory ##### export
JBASS_MODULEPATH=$JBASS_HOME/modules:$JBASS_HOME/modules/ext

# JVM Options : Server export JAVA_OPTS="-server $JAVA_OPTS"

```

```
# JVM Options : Memory export JAVA_OPTS=" $JAVA_OPTS -Xms1024m -Xmx1024m -
XX:MaxPermSize=256m" export JAVA_OPTS=" $JAVA_OPTS -XX:+PrintGCTimeStamps " export
JAVA_OPTS=" $JAVA_OPTS -XX:+PrintGCDetails " export JAVA_OPTS=" $JAVA_OPTS -
Xloggc:$JBOSS_GC_LOG" export JAVA_OPTS=" $JAVA_OPTS -XX:+UseParallelGC " #export
JAVA_OPTS=" $JAVA_OPTS -XX:+UseConcMarkSweepGC " export JAVA_OPTS=" $JAVA_OPTS -
XX:+ExplicitGCInvokesConcurrent " export JAVA_OPTS=" $JAVA_OPTS -XX:-
HeapDumpOnOutOfMemoryError "
```

```
# Linux Large Page Setting #export JAVA_OPTS=" $JAVA_OPTS -XX:+UseLargePages " export
JAVA_OPTS=" $JAVA_OPTS -verbose:gc" export JAVA_OPTS=" $JAVA_OPTS -
Djava.net.preferIPv4Stack=true" export JAVA_OPTS=" $JAVA_OPTS -
Dorg.jboss.resolver.warning=true" export JAVA_OPTS=" $JAVA_OPTS -
Dsun.rmi.dgc.client.gcInterval=3600000 " export JAVA_OPTS=" $JAVA_OPTS -
Dsun.rmi.dgc.server.gcInterval=3600000" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.modules.system.pkgs=org.jboss.byteman" export JAVA_OPTS=" $JAVA_OPTS -
Djava.awt.headless=true" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.server.base.dir=$JBOSS_NODE_BASE_DIR/$JBOSS_NODE_NAME" export JAVA_OPTS="
$JAVA_OPTS -Djboss.server.log.dir=$JBOSS_BASE_LOG_DIR" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.socket.binding.port-offset=$JBOSS_PORT_OFFSET" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.node.name=$JBOSS_NODE_NAME"
```

```
export JAVA_OPTS=" $JAVA_OPTS -Djboss.bind.address.management=$JBOSS_MANAGEMENT_ADDR"
export JAVA_OPTS=" $JAVA_OPTS -Djboss.bind.address=$JBOSS_BIND_ADDR" #export JAVA_OPTS="
$JAVA_OPTS -Djboss.bind_addr=$JBOSS_MULTICAST_ADDR" #export JAVA_OPTS=" $JAVA_OPTS -
Djboss.default.jgroups.stack=tcp" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.default.multicast.address=$JBOSS_MULTICAST_ADDR" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.messaging.group.address=$JBOSS_JMS_MULTICAST_ADDR" export JAVA_OPTS=" $JAVA_OPTS -
Djboss.modcluster.multicast.address=$JBOSS_MODCLUSTER_MULTICAST_ADDR" export JAVA_OPTS="
$JAVA_OPTS -Dorg.jboss.as.logging.per-deployment=false" export JAVA_OPTS=" $JAVA_OPTS -
Dserver.mode=local"
```

```
export JAVA_OPTS=" $JAVA_OPTS -
Djboss.server.config.user.dir=$JBOSS_DOMAIN_BASE_DIR/$JBOSS_DOMAIN_NAME/configuration"
export JAVA_OPTS=" $JAVA_OPTS -
Djboss.domain.config.user.dir=$JBOSS_DOMAIN_BASE_DIR/$JBOSS_DOMAIN_NAME/configuration"
```

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH
```

```
echo
"=====
===== " echo "JAVA_HOME=$JAVA_HOME" echo "JBOSS_HOME=$JBOSS_HOME" echo
"JBOSS_NODE_NAME=$JBOSS_NODE_NAME" echo
"JBOSS_NODE_BASE_DIR=$JBOSS_NODE_BASE_DIR" echo "JBOSS_CONFIG=$JBOSS_CONFIG"
```

```
echo "JBOSS_BIND_ADDR=$JBOSS_BIND_ADDR" echo "JBOSS_PORT_OFFSET=$JBOSS_PORT_OFFSET"
echo "JBOSS_MULTICAST_ADDR=$JBOSS_MULTICAST_ADDR" echo
"JBOSS_CONTROLLER=$JBOSS_CONTROLLER_IP:$JBOSS_CONTROLLER_PORT"
```

```
echo "JBOSS_PIDFILE=$JBOSS_PIDFILE" echo "JBOSS_CONSOLE_LOG=$JBOSS_CONSOLE_LOG" echo
"JBOSS_GC_LOG=$JBOSS_GC_LOG" echo
```



```
=====
=====” jboss-run.sh -          (    &    )

JBoss Node          .

Shell

vi /app/jboss-as/nodes/node01/jboss-run.sh 1 vi /app/jboss-as/nodes/node01/jboss-run.sh

/app/jboss-as/nodes/node01/jboss-run.shShell

#!/bin/sh

BASE_DIR=$(dirname $0)

. $BASE_DIR/jboss-env.sh

if [ “x$1” == “xstart” ]; then

if [ -e $JBOSS_CONSOLE_LOG ]; then
    mv $JBOSS_CONSOLE_LOG $JBOSS_CONSOLE_LOG.$DATE
fi

if [ -e $JBOSS_GC_LOG ]; then
    mv $JBOSS_GC_LOG $JBOSS_GC_LOG.$DATE
fi

fi

$JBOSS_HOME/bin/init.d/jboss-as-standalone.sh $1

#tail -f $JBOSS_CONSOLE_LOG 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 #!/bin/sh

BASE_DIR=$(dirname $0)

. $BASE_DIR/jboss-env.sh

if [ “x$1” == “xstart” ]; then

if [ -e $JBOSS_CONSOLE_LOG ]; then
    mv $JBOSS_CONSOLE_LOG $JBOSS_CONSOLE_LOG.$DATE
fi

if [ -e $JBOSS_GC_LOG ]; then

    mv $JBOSS_GC_LOG $JBOSS_GC_LOG.$DATE
fi

fi

$JBOSS_HOME/bin/init.d/jboss-as-standalone.sh $1
```

```
#tail -f $JBASS_CONSOLE_LOG jboss-jconsole.sh - JConsole
```

```
JConsole
```

```
Shell
```

```
vi /app/jboss-as/nodes/node01/jboss-jconsole.sh 1 vi /app/jboss-as/nodes/node01/jboss-jconsole.sh  
JConsole
```

```
/app/jboss-as/nodes/node01/jboss-jconsole.shShell
```

```
#!/bin/sh
```

```
BASE_DIR=$(dirname $0)
```

```
. $BASE_DIR/jboss-env.sh
```

```
echo "=====
```

```
echo " JMX URL : service:jmx:remoting-
```

```
jmx:$JBASS_MANAGEMENT_ADDR:$JBASS_CONTROLLER_PORT" echo
```

```
"=====
```

```
$JBASS_HOME/bin/jconsole.sh 1 2 3 4 5 6 7 8 9 10 11 #!/bin/sh BASE_DIR=$(dirname $0) .
```

```
$BASE_DIR/jboss-env.sh echo
```

```
"===== echo "
```

```
JMX URL : service:jmx:remoting-jmx:$JBASS_MANAGEMENT_ADDR:$JBASS_CONTROLLER_PORT" echo
```

```
"=====
```

```
$JBASS_HOME/bin/jconsole.sh jboss-cli.sh - CLI
```

```
CLI
```

```
Shell
```

```
vi /app/jboss-as/nodes/node01/jboss-cli.sh 1 vi /app/jboss-as/nodes/node01/jboss-cli.sh
```

```
CLI
```

```
/app/jboss-as/nodes/node01/jboss-cli.shShell
```

```
#!/bin/sh
```

```
BASE_DIR=$(dirname $0)
```

```
. $BASE_DIR/jboss-env.sh
```

```
export JAVA_OPTS=" -Djava.awt.headless=false $JAVA_OPTS"
```

```
$JBASS_HOME/bin/jboss-cli.sh -controller=$JBASS_CONTROLLER_IP:$JBASS_CONTROLLER_PORT
```

```
-connect $@ 1 2 3 4 5 6 7 8 9 #!/bin/sh
```

```
BASE_DIR=$(dirname $0)
```

```
. $BASE_DIR/jboss-env.sh
```

```
export JAVA_OPTS=" -Djava.awt.headless=false $JAVA_OPTS"
```

```
$JBASS_HOME/bin/jboss-cli.sh -controller=$JBASS_CONTROLLER_IP:$JBASS_CONTROLLER_PORT
-connect $@
```

Shell

```
chmod 755 /app/jboss-as/nodes/node01/*.sh 1 chmod 755 /app/jboss-as/nodes/node01/*.sh
```

```
Standalone Clustering standalone-ha.xml
```

Shell

```
vi /app/jboss-as/nodes/node01/configuration/standalone-ha.xml 1 vi /app/jboss-
as/nodes/node01/configuration/standalone-ha.xml
```

```

deployment-scanner → path : Web Application . deployment-scanner →
scan-interval : path (Web Application ) .
(1/1000 ) " 0 " . deployment-scanner → auto-deploy-
exploded : true war . instance-id :
jvmRoute , ${jboss.node.name} .
enable-welcome-root : ROOT Context false . true
Root Context JBoss Content . /app/jboss-
as/nodes/node01/configuration/standalone-ha.xmlXHTML

```

```
<?xml version='1.0' encoding='UTF-8'?>
```

```
<server xmlns="urn:jboss:domain:1.5">
```

```
<profile>
```

```

<subsystem xmlns="urn:jboss:domain:deployment-scanner:1.1">
  <!--
    <deployment-scanner path="deployments" relative-
to="jboss.server.base.dir" scan-interval="5000"/>
    -->
    <deployment-scanner path="/app/webapps/deployments" scan-
interval="0" auto-deploy-exploded="true" />

```

```
</subsystem>
```

```

<subsystem xmlns="urn:jboss:domain:web:1.5" default-virtual-
server="default-host" instance-id="${jboss.node.name}" native="false">
  <connector name="http" protocol="HTTP/1.1" scheme="http" socket-
binding="http"/>
  <connector name="ajp" protocol="AJP/1.3" scheme="http" socket-

```

```
binding="ajp"/>
  <virtual-server name="default-host" enable-welcome-root="false">
    <alias name="localhost"/>
    <alias name="example.com"/>
  </virtual-server>
</subsystem>
```

~~~~~

```
</profile>
```

~~~~~

```
</server> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 <?xml version='1.0' encoding='UTF-8'?>
```

```
<server xmlns="urn:jboss:domain:1.5">
```

~~~~~

```
<profile>
```

~~~~~

```
<subsystem xmlns="urn:jboss:domain:deployment-scanner:1.1">
```

```
  <!--
  <deployment-scanner path="deployments" relative-
to="jboss.server.base.dir" scan-interval="5000"/>
  -->
  <deployment-scanner path="/app/webapps/deployments" scan-
interval="0" auto-deploy-exploded="true" />
```

```
</subsystem>
```

```
<subsystem xmlns="urn:jboss:domain:web:1.5" default-virtual-server="default-host" instance-
id="${jboss.node.name}" native="false">
```

```
  <connector name="http" protocol="HTTP/1.1" scheme="http" socket-
binding="http"/>
  <connector name="ajp" protocol="AJP/1.3" scheme="http" socket-
binding="ajp"/>
  <virtual-server name="default-host" enable-welcome-root="false">
    <alias name="localhost"/>
    <alias name="example.com"/>
  </virtual-server>
</subsystem>
```

~~~~~

```
</profile>
```

```
</server> JBoss Clustering Node 가 Clustering Node 가
```

```
Standalone Node
```

```
JBoss Home standalone Node
```

```
"/app/jboss-as/nodes/node01" 가 "/app/jboss-as/nodes/node02"
```

```
Shell
```

```
cp -R /app/jboss-as/jboss-eap-6.2/standalone /app/jboss-as/nodes mv /app/jboss-as/nodes/standalone
/app/jboss-as/nodes/node02 1 2 cp -R /app/jboss-as/jboss-eap-6.2/standalone /app/jboss-as/nodes mv
/app/jboss-as/nodes/standalone /app/jboss-as/nodes/node02
```

```
"/app/jboss-as/nodes/node01" Node
```

```
Shell
```

```
cp /app/jboss-as/nodes/node01/*.sh /app/jboss-as/nodes/node01/*.conf /app/jboss-as/nodes/node02 1
cp /app/jboss-as/nodes/node01/*.sh /app/jboss-as/nodes/node01/*.conf /app/jboss-as/nodes/node02
```

```
"jboss-env.conf"
```

```
Shell
```

```
vi /app/jboss-as/nodes/node02/jboss-env.conf 1 vi /app/jboss-as/nodes/node02/jboss-env.conf
```

```
/app/jboss-as/nodes/node02/jboss.confShell
```

```
JAVA_HOME=/opt/jdk1.7.0_55
```

```
JBOSS_NODE_NAME=node02 JBOSS_PORT_OFFSET=200
```

```
JBOSS_USER=wasadmin JBOSS_HOME=/app/jboss-as/jboss-eap-6.2
```

```
JBOSS_NODE_BASE_DIR=/app/jboss-as/nodes
```

```
JBOSS_PIDFILE=/var/run/jboss-as/jboss-as- $\$$ JBOSS_NODE_NAME.pid JBOSS_CONFIG=standalone-ha.xml
```

```
JBOSS_BASE_LOG_DIR=/var/log/jboss-as
```

```
JBOSS_CONSOLE_LOG= $\$$ JBOSS_BASE_LOG_DIR/ $\$$ JBOSS_NODE_NAME-console.log
```

```
JBOSS_GC_LOG= $\$$ JBOSS_BASE_LOG_DIR/ $\$$ JBOSS_NODE_NAME-gc.log
```

```
JBOSS_BIND_ADDR=0.0.0.0 JBOSS_MANAGEMENT_ADDR=127.0.0.1
```

```
JBOSS_CONTROLLER_IP= $\$$ JBOSS_MANAGEMENT_ADDR JBOSS_MULTICAST_ADDR=230.0.0.4
```

```
JBOSS_JMS_MULTICAST_ADDR=231.7.0.1 JBOSS_MODCLUSTER_MULTICAST_ADDR=224.0.1.105
```

```
LAUNCH_JBOSS_IN_BACKGROUND=true
```

```
STARTUP_WAIT=30 SHUTDOWN_WAIT=30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 JAVA_HOME=/opt/jdk1.7.0_55
```

```
JBOSS_NODE_NAME=node02 JBOSS_PORT_OFFSET=200
```

```
JBOSS_USER=wasadmin JBOSS_HOME=/app/jboss-as/jboss-eap-6.2
JBOSS_NODE_BASE_DIR=/app/jboss-as/nodes
```

```
JBOSS_PIDFILE=/var/run/jboss-as/jboss-as-$JBOSS_NODE_NAME.pid JBOSS_CONFIG=standalone-ha.xml
JBOSS_BASE_LOG_DIR=/var/log/jboss-as
JBOSS_CONSOLE_LOG=$JBOSS_BASE_LOG_DIR/$JBOSS_NODE_NAME-console.log
JBOSS_GC_LOG=$JBOSS_BASE_LOG_DIR/$JBOSS_NODE_NAME-gc.log
```

```
JBOSS_BIND_ADDR=0.0.0.0 JBOSS_MANAGEMENT_ADDR=127.0.0.1
JBOSS_CONTROLLER_IP=$JBOSS_MANAGEMENT_ADDR JBOSS_MULTICAST_ADDR=230.0.0.4
JBOSS_JMS_MULTICAST_ADDR=231.7.0.1 JBOSS_MODCLUSTER_MULTICAST_ADDR=224.0.1.105
```

```
LAUNCH_JBOSS_IN_BACKGROUND=true
```

```
STARTUP_WAIT=30 SHUTDOWN_WAIT=30      Node      "standalone-ha.xml"      .
```

Shell

```
cp /app/jboss-as/nodes/node01/configuration/standalone-ha.xml /app/jboss-
as/nodes/node02/configuration/ 1 cp /app/jboss-as/nodes/node01/configuration/standalone-ha.xml
/app/jboss-as/nodes/node02/configuration/      Node      Shell Script JBoss Node
```

Shell

```
cd /app/jboss-as/nodes 1 cd /app/jboss-as/nodes all-run.sh -
```

```
run-all.sh      .
```

Shell

```
vi /app/jboss-as/nodes/all-run.sh 1 vi /app/jboss-as/nodes/all-run.sh      Shell Script
```

```
/app/jboss-as/nodes/all-run.shShell
```

```
#!/bin/sh
```

```
if [ "x$1" == "x" ]; then
```

```
exit 0
```

```
fi
```

```
BAKIFS=$IFS; IFS=',';
```

```
BASE_NODE_DIR=$(dirname $0) WAIT=3
```

```
nodes="node01,node02"; nodeArray=( $nodes);
```

```
for 1); do
```

```
    echo ">>> Run Node : ${nodeArray[$i]}";
```

```
    runScript="${BASE_NODE_DIR}/${nodeArray[$i]}/jboss-run.sh $1";
    eval $runScript
```

```
    sleep $WAIT
```

```
done
```

```
IFS=$BAKIFS; 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 #!/bin/sh
```

```
if [ "x$1" == "x" ]; then
```

```
    exit 0
```

```
fi
```

```
BAKIFS=$IFS; IFS=',';
```

```
BASE_NODE_DIR=$(dirname $0) WAIT=3
```

```
nodes="node01,node02"; nodeArray=( $nodes);
```

```
for 2); do
```

```
    echo ">>> Run Node : ${nodeArray[$i]}";
```

```
runScript="${BASE_NODE_DIR}/${nodeArray[$i]}/jboss-run.sh $1";
```

```
    eval $runScript
```

```
sleep $WAIT done
```

```
IFS=$BAKIFS; all-start.sh -
```

Shell Script

Shell

```
vi /app/jboss-as/nodes/all-start.sh 1 vi /app/jboss-as/nodes/all-start.sh
```

Shell Script

```
/app/jboss-as/nodes/all-start.shShell
```

```
#!/bin/sh
```

```
BASE_NODE_DIR=$(dirname $0)
```

```
$BASE_NODE_DIR/all-run.sh start 1 2 3 4 5 #!/bin/sh
```

```
BASE_NODE_DIR=$(dirname $0)
```

```
$BASE_NODE_DIR/all-run.sh start all-stop.sh -
```

Shell Script

Shell

```
vi /app/jboss-as/nodes/all-stop.sh 1 vi /app/jboss-as/nodes/all-stop.sh
```

Shell Script

```
/app/jboss-as/nodes/all-stop.shShell
```

```
#!/bin/sh
```

```
BASE_NODE_DIR=$(dirname $0)
```

```
$BASE_NODE_DIR/all-run.sh stop 1 2 3 4 5 #!/bin/sh
```

```
BASE_NODE_DIR=$(dirname $0)
```

```
$BASE_NODE_DIR/all-run.sh stop all-restart.sh -
```

Shell Script

Shell

```
vi /app/jboss-as/nodes/all-restart.sh 1 vi /app/jboss-as/nodes/all-restart.sh
```

Shell Script

```
/app/jboss-as/nodes/all-restart.shShell
```

```
#!/bin/sh
```

```
BASE_NODE_DIR=$(dirname $0)
```

```
$BASE_NODE_DIR/all-run.sh restart 1 2 3 4 5 #!/bin/sh
```

```
BASE_NODE_DIR=$(dirname $0)
```

```
$BASE_NODE_DIR/all-run.sh restart all-log.sh -
```

Shell Script

Shell

```
vi /app/jboss-as/nodes/all-log.sh 1 vi /app/jboss-as/nodes/all-log.sh
```

Shell Script

```
/app/jboss-as/nodes/all-log.shShell
```

```
#!/bin/sh
```

```
tail -n 50 -f /var/log/jboss-as/node*-console.log 1 2 3 #!/bin/sh
```



```
tail -n 50 -f /var/log/jboss-as/node*-console.log
```

Shell

```
chmod 755 /app/jboss-as/nodes/*.sh 1 chmod 755 /app/jboss-as/nodes/*.sh
JBoss
```

Shell

```
chown -R wasadmin:wasadmin /app/jboss-as /app/webapps /var/log/jboss-as 1 chown -R
wasadmin:wasadmin /app/jboss-as /app/webapps /var/log/jboss-as Clustering Sample Application
Sample Application
```

Shell

```
mkdir -p /app/webapps/deployments/clustering.war/WEB-INF 1 mkdir -p
/app/webapps/deployments/clustering.war/WEB-INF web.xml web.xml
```

Shell

```
vi /app/webapps/deployments/clustering.war/WEB-INF/web.xml 1 vi
/app/webapps/deployments/clustering.war/WEB-INF/web.xml web.xml
```

```
<distributable/> : Web Application Session Clustering
/app/webapps/deployments/clustering.war/WEB-INF/web.xmlShell
```

```
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
    version="3.0">
```

```
    <display-name>JBoss Sample Web App</display-name>
    <welcome-file-list>
        <welcome-file>/index.jsp</welcome-file>
    </welcome-file-list>
```

```
</distributable/>
```

```
</web-app> 1 2 3 4 5 6 7 8 9 10 11 12 <web-app xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
    version="3.0">
```

```
<display-name>JBoss Sample Web App</display-name>
```

```
    <welcome-file-list>
        <welcome-file>/index.jsp</welcome-file>
```

```
</welcome-file-list>
```

```
<distributable/>
```

```
</web-app> jboss-web.xml jboss-web.xml
```

Shell

```
vi /app/webapps/deployments/clustering.war/WEB-INF/jboss-web.xml 1 vi  
/app/webapps/deployments/clustering.war/WEB-INF/jboss-web.xml jboss-web.xml
```

```
<context-root> : Context Path  
/app/webapps/deployments/clustering.war/WEB-INF/jboss-web.xmlXHTML
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<jboss-web>
```

```
<context-root>clustering</context-root>
```

```
</jboss-web> 1 2 3 4 5 <?xml version="1.0" encoding="UTF-8"?>
```

```
<jboss-web>
```

```
<context-root>clustering</context-root>
```

```
</jboss-web> index.jsp index.jsp
```

Shell

```
vi /app/webapps/deployments/clustering.war/index.jsp 1 vi  
/app/webapps/deployments/clustering.war/index.jsp
```

```
/app/webapps/deployments/clustering.war/index.jspJava
```

```
<%@ page session="true" %>
```

```
<html> <head>
```

```
<title>Session Tracking Test</title>
```

```
</head> <body> <h1>Session Tracking Test</h1> Session tracking with JSP is easy <p> <% Get  
the session data value Integer ival = (Integer) session.getValue ("counter"); if (ival == null) ival =  
new Integer (1); else ival = new Integer (ival.intValue() + 1); session.putValue ("counter", ival); %>  
<h4>Server Name : <%=session.getId().substring(session.getId().indexOf(".") + 1) %></h4> You  
have hit this page <%= ival %> times.<br> <% out.println("Your Session ID is " + session.getId() +  
"<br>"); System.out.println("session=" + session.getId() + ", counter=" + ival); %> </body>  
</html> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 <%@ page  
session="true" %> <html> <head> <title>Session Tracking Test</title> </head> <body>  
<h1>Session Tracking Test</h1> Session tracking with JSP is easy <p> <% Get the session data
```

```
value Integer ival = (Integer) session.getValue ("counter");
```

```
if (ival == null) ival = new Integer (1); else ival = new Integer (ival.intValue() + 1); session.putValue
("counter", ival); %> <h4>Server Name : <%=session.getId().substring(session.getId().indexOf(".") +
1) %></h4> You have hit this page <%= ival %> times.<br> <% out.println("Your Session ID is " +
session.getId() + "<br>"); System.out.println("session=" + session.getId() + ", counter=" + ival);
%> </body> </html>
```

Shell

```
vi /etc/sysconfig/iptables 1 vi /etc/sysconfig/iptables JBoss 가
```

```
/etc/sysconfig/iptablesShell
```

```
-A INPUT -m state --state NEW -m tcp -p tcp --dport 8180 -j ACCEPT -A INPUT -m state --state NEW -m
tcp -p tcp --dport 8280 -j ACCEPT
```

```
-A INPUT -m iprange --src-range 192.168.122.21-192.168.122.23 -p tcp -m tcp --dport 7600 -j ACCEPT -
A INPUT -m iprange --src-range 192.168.122.21-192.168.122.23 -p tcp -m tcp --dport 54200 -j ACCEPT -
A INPUT -m iprange --src-range 192.168.122.21-192.168.122.23 -p tcp -m tcp --dport 57600 -j ACCEPT -
A INPUT -s 230.0.0.4/32 -p udp -m udp --dport 45688 -j ACCEPT -A INPUT -s 230.0.0.4/32 -p udp -m udp
--dport 45700 -j ACCEPT -A INPUT -s 224.0.1.105/32 -p udp -m udp --dport 23364 -j ACCEPT -A INPUT -
m iprange --src-range 192.168.122.21-192.168.122.23 -p udp -j ACCEPT #-A INPUT -s
192.168.122.0/24 -p udp -j ACCEPT 1 2 3 4 5 6 7 8 9 10 11 -A INPUT -m state --state NEW -m tcp -p tcp
--dport 8180 -j ACCEPT -A INPUT -m state --state NEW -m tcp -p tcp --dport 8280 -j ACCEPT
```

```
-A INPUT -m iprange --src-range 192.168.122.21-192.168.122.23 -p tcp -m tcp --dport 7600 -j ACCEPT -
A INPUT -m iprange --src-range 192.168.122.21-192.168.122.23 -p tcp -m tcp --dport 54200 -j ACCEPT -
A INPUT -m iprange --src-range 192.168.122.21-192.168.122.23 -p tcp -m tcp --dport 57600 -j ACCEPT -
A INPUT -s 230.0.0.4/32 -p udp -m udp --dport 45688 -j ACCEPT -A INPUT -s 230.0.0.4/32 -p udp -m udp
--dport 45700 -j ACCEPT -A INPUT -s 224.0.1.105/32 -p udp -m udp --dport 23364 -j ACCEPT -A INPUT -
m iprange --src-range 192.168.122.21-192.168.122.23 -p udp -j ACCEPT #-A INPUT -s
192.168.122.0/24 -p udp -j ACCEPT
```

Shell

```
service iptables restart 1 service iptables restart
```

JBoss Cluster Node

JBoss Cluster Node

Shell

```
/app/jboss-as/nodes/all-start.sh 1 /app/jboss-as/nodes/all-start.sh
가
```

Shell

```
Run Node : node01
```

```
JAVA_HOME=/opt/jdk1.7.0_55 JBOSS_HOME=/app/jboss-as/jboss-eap-6.2 JBOSS_NODE_NAME=node01
JBOSS_NODE_BASE_DIR=/app/jboss-as/nodes JBOSS_CONFIG=standalone-ha.xml
```

```
JBOSS_BIND_ADDR=0.0.0.0 JBOSS_PORT_OFFSET=100 JBOSS_MULTICAST_ADDR=230.0.0.4
JBOSS_CONTROLLER=127.0.0.1:10099 JBOSS_PIDFILE=/var/run/jboss-as/jboss-as-node01.pid
JBOSS_CONSOLE_LOG=/var/log/jboss-as/node01-console.log JBOSS_GC_LOG=/var/log/jboss-
as/node01-gc.log
```

Starting jboss-as: [ OK ]

```
||| Run Node : node02
```

```
JAVA_HOME=/opt/jdk1.7.0_55 JBOSS_HOME=/app/jboss-as/jboss-eap-6.2 JBOSS_NODE_NAME=node02
JBOSS_NODE_BASE_DIR=/app/jboss-as/nodes JBOSS_CONFIG=standalone-ha.xml
JBOSS_BIND_ADDR=0.0.0.0 JBOSS_PORT_OFFSET=200 JBOSS_MULTICAST_ADDR=230.0.0.4
JBOSS_CONTROLLER=127.0.0.1:10199 JBOSS_PIDFILE=/var/run/jboss-as/jboss-as-node02.pid
JBOSS_CONSOLE_LOG=/var/log/jboss-as/node02-console.log JBOSS_GC_LOG=/var/log/jboss-
as/node02-gc.log
```

Starting jboss-as: [ OK ] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

```
||| Run Node : node01
```

```
JAVA_HOME=/opt/jdk1.7.0_55 JBOSS_HOME=/app/jboss-as/jboss-eap-6.2 JBOSS_NODE_NAME=node01
JBOSS_NODE_BASE_DIR=/app/jboss-as/nodes JBOSS_CONFIG=standalone-ha.xml
JBOSS_BIND_ADDR=0.0.0.0 JBOSS_PORT_OFFSET=100 JBOSS_MULTICAST_ADDR=230.0.0.4
JBOSS_CONTROLLER=127.0.0.1:10099 JBOSS_PIDFILE=/var/run/jboss-as/jboss-as-node01.pid
JBOSS_CONSOLE_LOG=/var/log/jboss-as/node01-console.log JBOSS_GC_LOG=/var/log/jboss-
as/node01-gc.log
```

Starting jboss-as: [ OK ]

```
||| Run Node : node02
```

```
JAVA_HOME=/opt/jdk1.7.0_55 JBOSS_HOME=/app/jboss-as/jboss-eap-6.2 JBOSS_NODE_NAME=node02
JBOSS_NODE_BASE_DIR=/app/jboss-as/nodes JBOSS_CONFIG=standalone-ha.xml
JBOSS_BIND_ADDR=0.0.0.0 JBOSS_PORT_OFFSET=200 JBOSS_MULTICAST_ADDR=230.0.0.4
JBOSS_CONTROLLER=127.0.0.1:10199 JBOSS_PIDFILE=/var/run/jboss-as/jboss-as-node02.pid
JBOSS_CONSOLE_LOG=/var/log/jboss-as/node02-console.log JBOSS_GC_LOG=/var/log/jboss-
as/node02-gc.log
```

Starting jboss-as: [ OK ] Clustering "node01"

Shell

```
tail -n 100 /var/log/jboss-as/node01-console.log 1 tail -n 100 /var/log/jboss-as/node01-console.log
Cluster member "node02" 가
Cluster member 가 1 "node01"
```

Cluster member 가

Shell

```

17:16:06,477 INFO [org.infinispan.factories.GlobalComponentRegistry] (ServerService Thread Pool -
53) ISPN000128: Infinispan version: Infinispan 'Delirium' 5.2.7.Final 17:16:06,507 INFO
[org.jboss.as.clustering] (MSC service thread 1-3) JBAS010238: Number of cluster members: 1
17:16:06,525 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool -
54) ISPN000161: Using a batchMode transaction manager

```

```

~~~~~
~~~~~

```

```

17:16:06,972 INFO [org.jboss.as] (Controller Boot Thread) JBAS015961: Http management interface
listening on http://127.0.0.1:10090/management 17:16:06,973 INFO [org.jboss.as] (Controller Boot
Thread) JBAS015951: Admin console listening on http://127.0.0.1:10090 17:16:06,973 INFO
[org.jboss.as] (Controller Boot Thread) JBAS015874: JBoss EAP 6.2.0.GA (AS 7.3.0.Final-redhat-14)
started in 7154ms - Started 218 of 348 services (129 services are passive or on-demand)
17:16:15,553 INFO [org.jboss.as.clustering] (Incoming-1,shared=udp) JBAS010225: New cluster view
for partition web (id: 1, delta: 1, merge: false) : [node01/web, node02/web] 17:16:15,553 INFO
[org.infinispan.remoting.transport.jgroups.JGroupsTransport] (Incoming-1,shared=udp) ISPN000094:
Received new cluster view: [node01/web|1] [node01/web, node02/web] 1 2 3 4 5 6 7 8 9 10 11
17:16:06,477 INFO [org.infinispan.factories.GlobalComponentRegistry] (ServerService Thread Pool -
53) ISPN000128: Infinispan version: Infinispan 'Delirium' 5.2.7.Final 17:16:06,507 INFO
[org.jboss.as.clustering] (MSC service thread 1-3) JBAS010238: Number of cluster members: 1
17:16:06,525 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool -
54) ISPN000161: Using a batchMode transaction manager

```

```

~~~~~
~~~~~

```

```

17:16:06,972 INFO [org.jboss.as] (Controller Boot Thread) JBAS015961: Http management interface
listening on http://127.0.0.1:10090/management 17:16:06,973 INFO [org.jboss.as] (Controller Boot
Thread) JBAS015951: Admin console listening on http://127.0.0.1:10090 17:16:06,973 INFO
[org.jboss.as] (Controller Boot Thread) JBAS015874: JBoss EAP 6.2.0.GA (AS 7.3.0.Final-redhat-14)
started in 7154ms - Started 218 of 348 services (129 services are passive or on-demand)
17:16:15,553 INFO [org.jboss.as.clustering] (Incoming-1,shared=udp) JBAS010225: New cluster view
for partition web (id: 1, delta: 1, merge: false) : [node01/web, node02/web] 17:16:15,553 INFO
[org.infinispan.remoting.transport.jgroups.JGroupsTransport] (Incoming-1,shared=udp) ISPN000094:
Received new cluster view: [node01/web|1] [node01/web, node02/web]
"node02"

```

Shell

```

tail -n 100 /var/log/jboss-as/node02-console.log 1 tail -n 100 /var/log/jboss-as/node02-console.log
"node01" "node02" Cluster member
가

```

Shell

```

17:16:15,582 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (ServerService
Thread Pool - 57) ISPN000094: Received new cluster view: [node01/web|1] [node01/web,
node02/web] 17:16:15,686 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport]

```

(ServerService Thread Pool - 57) ISPN000079: Cache local address is node02/web, physical addresses are [0.0.0.0:55400] 17:16:15,694 INFO [org.infinispan.factories.GlobalComponentRegistry]  
(ServerService Thread Pool - 57) ISPN000128: Infinispan version: Infinispan 'Delirium' 5.2.7.Final 17:16:15,709 INFO [org.jboss.as.clustering] (MSC service thread 1-2) JBAS010238: Number of cluster members: 2 17:16:15,752 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool - 53) ISPN000161: Using a batchMode transaction manager 17:16:15,752 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool - 54) ISPN000161: Using a batchMode transaction manager 17:16:15,756 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool - 55) ISPN000161: Using a batchMode transaction manager 1 2 3 4 5 6 7 17:16:15,582 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (ServerService Thread Pool - 57) ISPN000094: Received new cluster view: [node01/web]1 [node01/web, node02/web] 17:16:15,686 INFO [org.infinispan.remoting.transport.jgroups.JGroupsTransport] (ServerService Thread Pool - 57) ISPN000079: Cache local address is node02/web, physical addresses are [0.0.0.0:55400] 17:16:15,694 INFO [org.infinispan.factories.GlobalComponentRegistry] (ServerService Thread Pool - 57) ISPN000128: Infinispan version: Infinispan 'Delirium' 5.2.7.Final 17:16:15,709 INFO [org.jboss.as.clustering] (MSC service thread 1-2) JBAS010238: Number of cluster members: 2 17:16:15,752 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool - 53) ISPN000161: Using a batchMode transaction manager 17:16:15,752 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool - 54) ISPN000161: Using a batchMode transaction manager 17:16:15,756 INFO [org.infinispan.factories.TransactionManagerFactory] (ServerService Thread Pool - 55) ISPN000161: Using a batchMode transaction manager Clustering Sample Application

가 . "Node01" "Node02" 가  
Page Hit 가 가 . jboss\_eap\_6\_2\_clustering\_sample\_application\_01

Apache HTTPD Server Apache HTTPD Server mod\_jk, mod\_cluster, mod\_proxy

1 - mod\_jk JBoss EAP 6.x - Apache HTTPD 2.2.x + mod\_jk 1.2.x Session Clustering

2 - mod\_cluster JBoss EAP 6.x - Apache HTTPD 2.2.x + mod\_cluster 1.2.x Session Clustering

JBAS014612 : java.lang.RuntimeException: java.net.UnknownHostException: standalone01: standalone01

JBoss Node console

21:28:41,857 ERROR [org.jboss.as.controller.management-operation] (ServerService Thread Pool - 50) JBAS014612: Operation ("add") failed - address: ([("subsystem" => "webservices")]): java.lang.RuntimeException: java.net.UnknownHostException: standalone01: standalone01

```
at
org.jboss.as.webservices.dmr.WSSubsystemAdd.createServerConfig(WSSubsystemAdd.java:103)
at
org.jboss.as.webservices.dmr.WSSubsystemAdd.performBoottime(WSSubsystemAdd.java:88)
at
```

```
org.jboss.as.controller.AbstractBoottimeAddStepHandler.performRuntime(AbstractBoottimeAddStepHandler.java:57) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractAddStepHandler$1.execute(AbstractAddStepHandler.java:76) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.executeStep(AbstractOperationContext.java:607) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.doCompleteStep(AbstractOperationContext.java:485) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.completeStepInternal(AbstractOperationContext.java:282) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.executeOperation(AbstractOperationContext.java:277) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.ParallelBootOperationStepHandler$ParallelBootTask.run(ParallelBootOperationStepHandler.java:343) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145) [rt.jar:1.7.0_55]
    at
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:615) [rt.jar:1.7.0_55]
    at java.lang.Thread.run(Thread.java:745) [rt.jar:1.7.0_55]
    at org.jboss.threads.JBossThread.run(JBossThread.java:122) [jboss-threads-2.1.1.Final-redhat-1.jar:2.1.1.Final-redhat-1]
```

Caused by: java.net.UnknownHostException: standalone01: standalone01

```
    at java.net.InetAddress.getLocalHost(InetAddress.java:1473) [rt.jar:1.7.0_55]
    at
org.jboss.ws.common.management.AbstractServerConfig.setWebServiceHost(AbstractServerConfig.java:111)
    at
org.jboss.as.webservices.dmr.WSSubsystemAdd.createServerConfig(WSSubsystemAdd.java:101)
    ... 12 more
```

Caused by: java.net.UnknownHostException: standalone01

```
    at java.net.Inet4AddressImpl.lookupAllHostAddr(Native Method)
[rt.jar:1.7.0_55]
    at java.net.InetAddress$1.lookupAllHostAddr(InetAddress.java:901)
[rt.jar:1.7.0_55]
    at
java.net.InetAddress.getAddressesFromNameService(InetAddress.java:1293)
[rt.jar:1.7.0_55]
    at java.net.InetAddress.getLocalHost(InetAddress.java:1469)
[rt.jar:1.7.0_55]
    ... 14 more
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 21:28:41,857 ERROR  
[org.jboss.as.controller.management-operation] (ServerService Thread Pool - 50) JBAS014612:  
Operation ("add") failed - address: ([{"subsystem" => "webservices"}]): java.lang.RuntimeException:  
java.net.UnknownHostException: standalone01: standalone01

```
    at
org.jboss.as.webservices.dmr.WSSubsystemAdd.createServerConfig(WSSubsystemAdd.java:103)
    at
org.jboss.as.webservices.dmr.WSSubsystemAdd.performBoottime(WSSubsystemAdd.java:88)
    at
org.jboss.as.controller.AbstractBoottimeAddStepHandler.performRuntime(AbstractBoottimeAddStepHandler.java:57) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractAddStepHandler$1.execute(AbstractAddStepHandler.java:76) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.executeStep(AbstractOperationContext.java:607) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.doCompleteStep(AbstractOperationContext.java:485) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.completeStepInternal(AbstractOperationContext.java:282) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.AbstractOperationContext.executeOperation(AbstractOperationContext.java:277) [jboss-as-controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
org.jboss.as.controller.ParallelBootOperationStepHandler$ParallelBootTask.run(ParallelBootOperationStepHandler.java:343) [jboss-as-
```



```

controller-7.3.0.Final-redhat-14.jar:7.3.0.Final-redhat-14]
    at
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145) [rt.jar:1.7.0_55]
    at
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:615) [rt.jar:1.7.0_55]
    at java.lang.Thread.run(Thread.java:745) [rt.jar:1.7.0_55]
    at org.jboss.threads.JBossThread.run(JBossThread.java:122) [jboss-threads-2.1.1.Final-redhat-1.jar:2.1.1.Final-redhat-1]

```

Caused by: java.net.UnknownHostException: standalone01: standalone01

```

    at java.net.InetAddress.getLocalHost(InetAddress.java:1473) [rt.jar:1.7.0_55]
    at
org.jboss.ws.common.management.AbstractServerConfig.setWebServiceHost(AbstractServerConfig.java:111)
    at
org.jboss.as.webservices.dmr.WSSubsystemAdd.createServerConfig(WSSubsystemAdd.java:101)
    ... 12 more

```

Caused by: java.net.UnknownHostException: standalone01

```

    at java.net.Inet4AddressImpl.lookupAllHostAddr(Native Method) [rt.jar:1.7.0_55]
    at java.net.InetAddress$1.lookupAllHostAddr(InetAddress.java:901) [rt.jar:1.7.0_55]
    at
java.net.InetAddress.getAddressesFromNameService(InetAddress.java:1293) [rt.jar:1.7.0_55]
    at java.net.InetAddress.getLocalHost(InetAddress.java:1469) [rt.jar:1.7.0_55]
    ... 14 more

```

JBoss (standalone01) . hosts

"/etc/hosts"

Shell

vi /etc/hosts 1 vi /etc/hosts

```

127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4 standalone01 1
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4 standalone01 JBoss Server

```

Last update: 2016/05/20 03:20 jboss\_eap\_6.x\_standalone\_session\_clustering [https://atl.kr/dokuwiki/doku.php/jboss\\_eap\\_6.x\\_standalone\\_session\\_clustering?rev=1463714451](https://atl.kr/dokuwiki/doku.php/jboss_eap_6.x_standalone_session_clustering?rev=1463714451)

---

1) 2)

```
i=0; i<${#nodeArray[@]}; ++i
```

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