



Cavisson Binary System (CavBin)

Server Installer Guide for RHEL Environment

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Installing Cavisson CavBin

Cavisson CavBin is a platform for setting the environment for various cavisson products, such as NetStorm (NS), NetDiagnostics (ND), and NetOcean (NO).

Follow these steps to install NetStorm software on the NetStorm server:

1. Open a terminal window (using the left mouse button). Ensure that the user is working as root. Terminal window should not be closed during installation.
2. Create a directory `mkdir /root/cavisson_libs`.
3. Download Cavisson Software (CavBin file), `ServerInstaller.sh`, and `cav_licence` file in `/root/cavisson_libs` directory as provided.
 - Use this link <https://nde.cav-test.com/HUB/RHEL9/ServerInstaller.sh> to download Server Installer Shell.
 - Use this link https://nde.cav-test.com/HUB/RHEL9/cav_licence to download the licence.
 - Use this link https://nde.cav-test.com/HUB/RHEL9/Cav.4.15.0.62.Redhat94_64.bin to download Cavisson Software(CavBin file).

```

cavisson@cavisson-ThinkPad-E15-Gen-4:~/test$ wget https://nde.cav-test.com/HUB/Installer.tar.gz
--2023-06-06 18:42:09-- https://nde.cav-test.com/HUB/Installer.tar.gz
Resolving nde.cav-test.com (nde.cav-test.com)... 65.19.151.244
Connecting to nde.cav-test.com (nde.cav-test.com)|65.19.151.244|:443... connected.
HTTP request sent, awaiting response... 200
Length: 6664 (6.5K) [application/x-gzip]
Saving to: 'Installer.tar.gz'

Installer.tar.gz          100%[=====] 6.51K  --.-KB/s  in 0s
2023-06-06 18:42:11 (700 MB/s) - 'Installer.tar.gz' saved [6664/6664]

cavisson@cavisson-ThinkPad-E15-Gen-4:~/test$ ls -ltrh
total 8.0K
-rw-rw-r-- 1 cavisson cavisson 6.6K Jun  6 17:57 Installer.tar.gz
cavisson@cavisson-ThinkPad-E15-Gen-4:~/test$ wget https://nde.cav-test.com/HUB/Cav.4.11.0.53.Ubuntu2004_64.bin --no-check-certificate
--2023-06-06 18:42:30-- https://nde.cav-test.com/HUB/Cav.4.11.0.53.Ubuntu2004_64.bin
Resolving nde.cav-test.com (nde.cav-test.com)... 65.19.151.244
Connecting to nde.cav-test.com (nde.cav-test.com)|65.19.151.244|:443... connected.
HTTP request sent, awaiting response... 200
Length: 4798558961 (4.5G) [application/octet-stream]
Saving to: 'Cav.4.11.0.53.Ubuntu2004_64.bin'

Cav.4.11.0.53.Ubuntu2004_64.bin  0%[
] 773.63K  302KB/s
    
```

4. Give executable permission to [ServerInstaller.sh](#) and Cavisson Software (CavBin file).
5. Run `bash ServerInstaller.sh`. This will install cavisson products on the system. The installation will take approximately 1 hr to install.


```
cavisson@cavisson-VirtualBox:~/work$ nsu_get_version -C
CAVBIN:Version 4.6.0 (build# 30)
```

9. Check the *Postgres* status by command `/etc/init.d/postgresql status`.

```
cavisson@ubuntu:~/work$ /etc/init.d/postgresql status
● postgresql.service - PostgreSQL RDBMS
   Loaded: loaded (/lib/systemd/system/postgresql.service; enabled; vendor preset: enabled)
   Active: active (exited) since Fri 2020-04-24 08:43:04 CDT; 5h 24min ago
   Main PID: 2517 (code=exited, status=0/SUCCESS)
     Tasks: 0
    Memory: 0B
       CPU: 0
    CGroup: /system.slice/postgresql.service

Apr 24 08:43:03 ubuntu systemd[1]: Starting PostgreSQL RDBMS...
Apr 24 08:43:04 ubuntu systemd[1]: Started PostgreSQL RDBMS.
cavisson@ubuntu:~/work$
```

10. Check the *tomcat* running status by command `ps -ef | grep tomcat`.

```
Jun 06 03:37:26 vm-w-ca-fremont-he-243 systemd[1]: Starting PostgreSQL RDBMS...
Jun 06 03:37:26 vm-w-ca-fremont-he-243 systemd[1]: Finished PostgreSQL RDBMS.
cavisson@vm-w-ca-fremont-he-243:~/work$ ps -ef | grep tomcat
cavisson 1698 1619 17 03:34 ?        00:00:45 java -Xms1g -Xmx2g -Dserver.port=7903 -Djava.io.tmpdir=/home/cavisson/work/alertManager/logs/tmp -Dcontroller.name=work -Dtomcat.client.protocol=https -Dtomcat.client.host=0.0.0.0 -Dtomcat.client.port=7901 -Dmongodb.ip=localhost -Dmongodb.port=27017 -Dmongodb.user=cavisson -Dmongodb.pwd=cavisson -Dmongodb.authdb=admin -Dmongodb.name=alert_work -Dpostgres.ip=localhost -Dpostgres.port=5432 -Dpostgres.db.name=alert_work -Dsql.show=false -jar /home/cavisson/work/AlertManager/AlertManager-0.0.1-SNAPSHOT.war
cavisson 2778 1 99 03:34 ?        00:11:23 /home/cavisson/apps/openjdk-8u322-b06/bin/java -Djava.util.logging.config.file=/home/cavisson/work/apps/apache-tomcat-9.0.65/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -DNS_WDIR=/home/cavisson/work -Dserver -Djava.awt.headless=true -DHPD_ROOT=/home/cavisson/work/hpd -DHPD_CMD=hpd -Xms1g -Xmx1g -XX:ParallelGCThreads=40 -XX:G1HeapRegionSize=32 -XX:+UseG1GC -XX:+PrintCommandLineFlags -XX:+UseStringDeduplication -XX:+PrintGCDetails -XX:+PrintGCTimeStamps -XX:+UnlockCommercialFeatures -XX:+FlightRecorder -Xloggc:/home/cavisson/work/apps/apache-tomcat-9.0.65/logs/tomcat_gc_20230606033719.log -XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=/home/cavisson/work/HeapDump_20230606033719.hprof -XX:MaxGCPauseMillis=500 -Djava.security.egd=file:/dev/./urandom -agentpath:/home/cavisson/netdiagnostics/lib/libjvannativeagent.so=feature_all -javaagent:/home/cavisson/netdiagnostics/lib/ndmain.jar=time,ndAgentJar=/home/cavisson/netdiagnostics/lib/ndagent-with-dep.jar,ndHome=/home/cavisson/netdiagnostics,ndlPort=1 -Dlog4j2.configurationFile=/home/cavisson/work/webapps/tomcat/t/log4j2/log4j2.xml -XX:+StartAttachListener -Djdk.tls.ephemeralDHKeySize=2048 -Djava.protocol.handler.pkgs=org.apache.catalina.webresources -Dorg.apache.catalina.security.SecurityListener.UMASK=0027 -Dignore.endorsed.dirs=-classpath /home/cavisson/work/apps/apache-tomcat-9.0.65/bin/bootstrap.jar:/home/cavisson/work/apps/apache-tomcat-9.0.65/bin/tomcat-juli.jar -Dcatalina.base=/home/cavisson/work/apps/apache-tomcat-9.0.65 -Dcatalina.home=/home/cavisson/work/apps/apache-tomcat-9.0.65 -Djava.io.tmpdir=/home/cavisson/work/apps/apache-tomcat-9.0.65/temp org.apache.catalina.startup.Bootstrap start
cavisson 2806 1 0 03:34 ?        00:00:00 /bin/bash /home/cavisson/work/webapps/tomcat/ansi_check_tomcat -p 2778 -i 180 -s 10485760
cavisson 3890 1 0 03:34 ?        00:00:01 java -XX:+StartAttachListener -Djdk.attach.allowAttachSelf=true -DPKG=cmon -DCAV_MON_HOME=/home/cavisson/monitors -Xms128m -Xmx512m -DCLASSPATH=/home/cavisson/monitors/lib/*:/home/cavisson/monitors/custom:/home/cavisson/monitors/bin/CavMonAgent.jar:/home/cavisson/apps/openjdk-8u322-b06/lib/tools.jar -DPATH=/home/cavisson/monitors/bin:/home/cavisson/monitors/custom:/home/cavisson/apps/openjdk-8u322-b06/bin:/home/cavisson/work/netHavoc/bin:/home/cavisson/thirdparty/bin:/home/cavisson/monitors/bin:/home/cavisson/work/bin:/home/cavisson/work/server_management/bin:/home/cavisson/work/tools/bin:/home/cavisson/apps/openjdk-8u322-b06/bin:/home/cavisson/work/apps/apache-tomcat-9.0.65/bin:/usr/local/pgsql/bin:/bin:/usr/local/sbin:/usr/sbin:/sbin:/home/cavisson/work/api_gateway/bin:/home/cavisson/xpraProxy:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/home/cavisson/work/bin:/home/cavisson/work/tools:/home/cavisson/apps/openjdk-8u322-b06/bin -DJAVA_HOME=/home/cavisson/apps/openjdk-8u322-b06 com.cavisson.monitoring.agent.CavMonAgent
cavisson 15696 13853 0 03:38 pts/0    00:00:00 grep --color=auto tomcat
cavisson@vm-w-ca-fremont-he-243:~/work$ systemctl status mongod.service
● mongod.service - MongoDB Database Server
   Loaded: loaded (/lib/systemd/system/mongod.service; disabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-06-06 03:35:46 CDT; 3min 28s ago
     Docs: https://docs.mongodb.org/manual
   Main PID: 10632 (mongod)
    Memory: 182.4M
    CGroup: /system.slice/mongod.service
           └─10632 /usr/bin/mongod --config /etc/mongod.conf

Jun 06 03:35:46 vm-w-ca-fremont-he-243 systemd[1]: Started MongoDB Database Server.
```

11. Check the *MongoDB* running status by command `systemctl status mongod.service`.

```
/openjdk-8u322-b06/bin:/home/cavisson/work/apps/apache-tomcat-9.0.65/bin:/usr/local/pgsql/bin:/bin:/usr/local/sbin:/usr/sbin:/sbin:/home/cavisson/work/api_gateway/bin:/home/cavisson/xpraProxy:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/home/cavisson/work/bin:/home/cavisson/work/tools:/home/cavisson/apps/openjdk-8u322-b06/bin -DJAVA_HOME=/home/cavisson/apps/openjdk-8u322-b06 com.cavisson.monitoring.agent.CavMonAgent
cavisson 15696 13853 0 03:38 pts/0    00:00:00 grep --color=auto tomcat
cavisson@vm-w-ca-fremont-he-243:~/work$ systemctl status mongod.service
● mongod.service - MongoDB Database Server
   Loaded: loaded (/lib/systemd/system/mongod.service; disabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-06-06 03:35:46 CDT; 3min 28s ago
     Docs: https://docs.mongodb.org/manual
   Main PID: 10632 (mongod)
    Memory: 182.4M
    CGroup: /system.slice/mongod.service
           └─10632 /usr/bin/mongod --config /etc/mongod.conf

Jun 06 03:35:46 vm-w-ca-fremont-he-243 systemd[1]: Started MongoDB Database Server.
```

12. Download and Execute RBU Setup File

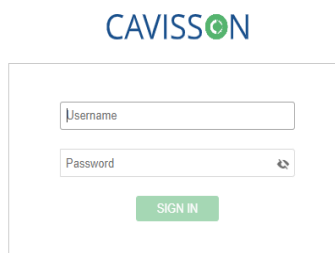
Use the following procedure to download and execute the RBU setup file.

1. Navigate to the upgrade directory:
`cd /home/cavisson/work/upgrade`
2. Download the RBU file using the provided link:
`wget https://nde.cav-test.com/HUB/RHEL9/rbu_setup.4.15.0.62_Redhat94_64.bin`
3. Provide execute permission to the downloaded file:
`chmod +x rbu_setup.4.15.0.62_Redhat94_64.bin`
4. Run the RBU installer:
`./rbu_setup.4.15.0.62_Redhat94_64.bin`

13. After successful installation, you will get the following message:

“You can log in to the GUI with unified URL- <https://<Your IP/Domain Name>/UnifiedDashboard> with default user id/ password as `cavisson/@dmin`.

Use the provided URL to access our Product UI, the screenshot of which is shown below:



Use the default credentials (`cavisson/@dmin`) provided in the message to access LoadTesting UI and begin with your load test journey.

Note: For product license, consult your project lead/delivery lead/account lead.