



Cavisson Agent Installer

For All Cavisson Agents

Copyright © 2026, Cavisson Systems Inc.

All Rights Reserved. No part of this document shall be reproduced, stored in a retrieval system, transmitted by any means electronic, mechanical, and photocopying, or otherwise without written permission from Cavisson. No patent liability is assumed with respect to the use of the information contained therein.

Table of Content

Purpose	3
Prerequisites	3
Installation Steps	3
Verification of Installation	5
Directory Structure	5
Files to check for Machine Agent	6
Files to check for Java Agent	6
Files to check for NodeJS Agent	6
Files to check for PHP Agent	6
Files to check for Python Agent	7
Configuring Application Agents	8
Java Agent	8
Apache Tomcat Server	8
JBoss Application Server	8
NodeJS Agent	8
Python Agent	9
PHP Agent	9
Log Agent	9
Uninstallation Steps	9

Purpose

This document provides pre-requisites and SOPs for installing Cavisson Agents (Machine Agent, Log Agent, Application Agents).

Prerequisites

1. Need to run the installer by the root user.
2. Storage requirement – 1 GB.

Installation Steps

1. Download the CavissonAgent Installer using the below command.

```
wget https://nde.cav-test.com/HUB/CavissonAgentInstaller.<version>.bin --no-check-certificate
```

Note: Replace version with the version number of agent installer. Connect with your Cavisson representative for getting the latest build.

2. Store the file on your machine.
3. Execute the installer file using root user.

Syntax

```
bash CavissonAgentInstaller.<version>.bin --basedir="<base_directory>" --user="<user_name>" --cavisson-server="<CavissonServerHost>:<Port>" --tier="<tiername>" --gateway-server="<proxyHost>:<proxyPort>" --verbose="true" --machine-agent --java-agent --nodejs-agent --php-agent --python-agent --log-agent --gateway
```

Note: To enable both the **Machine Agent** and **Log Agent** with the **Application Agent**, use the following additional parameters:

Machine Agent: `--machine-agent`

Log Agent: `--log-agent`

Example

Only Machine Agent:

```
sudo bash CavissonAgentInstaller.4.14.0.106.bin --basedir="/opt" --user="cavisson"
--cavisson-server="cloudpoc4.cav-test.com:443" --tier="NOCJava" --verbose="true" --
machine-agent
```

For Java Agent:

```
sudo bash CavissonAgentInstaller.4.14.0.106.bin --basedir="/opt" --user="cavisson"
--cavisson-server="cloudpoc4.cav-test.com:443" --tier="NOCJava" --verbose="true" --
machine-agent --java-agent
```

For NodeJS Agent:

```
sudo bash CavissonAgentInstaller.4.14.0.106.bin --basedir="/opt" --user="cavisson"
--cavisson-server="cloudpoc4.cav-test.com:443" --tier="NOCNode" --verbose="true" --
machine-agent --nodejs-agent
```

For PHP Agent:

```
sudo bash CavissonAgentInstaller.4.14.0.106.bin --basedir="/opt" --user="cavisson"
--cavisson-server="cloudpoc4.cav-test.com:443" --tier="NOCPHP" --gateway-
server="127.0.0.1:1111" --verbose="true" --machine-agent --php-agent --gateway
```

For Python Agent:

```
sudo bash CavissonAgentInstaller.4.14.0.106.bin --basedir="/opt" --user="cavisson"
--cavisson-server="cloudpoc4.cav-test.com:443" --tier="NOCPython" --gateway-
server="127.0.0.1:1111" --verbose="true" --machine-agent --python-agent --gateway
```

Note

To know more about the installer and various parameters, run the following command:

```
./CavissonAgentInstaller.4.14.0.106.bin --help
```

```

root@cavisson:/home# ./CavissonAgentInstaller.4.14.0.106.bin --help
2025-06-10 09:26:54 UTC | Cavisson Agent Installer | Distribution: Ubuntu 20.04
PLEASE EXECUTE THIS SHELL FROM "ROOT" USER

1. Use this installer to install/upgrade Cavisson Agent modules like Machine Agent Module, Application Agent Modules.

2. Options
[-b|--basedir] : Installation base dir eg: /home or /opt (default is /opt).
[-t|--tier] : Name to be given to a cluster of application servers running same application services
[-c|--cavisson-server] : Cavisson Server to which agent modules will be posting the captured data. Input format is <hostname:port>
[-S|--saas-url] : Cavisson Saas URL to send captured data
[-P|--project-key] : Unique project key ID generated for the project
[-B|--php-path] : Full path to the PHP binary used for configuring the PHP agent (e.g., /opt/lampp). Default is /usr/bin/php.

3. Advanced Options
[-u|--user] : User account to be used to start Cavisson Agent services. If this account doesn't exist, installer will create this account. Default is cavisson.
[-s|--server] : Application server name. Default value will be hostname of the server.
[-p|--cavisson-server-protocol] : Default is WSS (Web Secure Socket). Possible values WSS, WS, TCP.
[-T|--tags] : TAGS name to be given in ndsetting.conf file.
[-A|--attributes] : ATTRIBUTES name to be given in ndsetting.conf file.

4. Log Agent Module Configurations.
[-i|--index-prefix] : Prefix string that will be prepended to all log indices managed by Log server
[-e|--setup-name] : Setup name
[-n|--nf-endpoint-prefix] : NF_ENDPOINT_PREFIX to be given in nf.env (default value is netforest)

5. PHP/Python/Go Agent Module Configuration
[-y|--gateway-server] : Gateway Server <Gateway Server:port>

6. Use below options to install any of the Agent
[-m|--machine-agent] : for Machine Agent
[-a|--java-agent] : for Java application Agent
[-l|--log-agent] : for Log Agent
[-w|--php-agent] : for PHP Application Agent
[-j|--python-agent] : for Python Application Agent
[-z|--nodejs-agent] : for NodeJS Application Agent
[-g|--gateway] : for Gateway
[-r|--go-agent] : for Go Application Agent

7. Python Agent Module Configuration
[-k|--python-version] : Python version (default is python3)

NOTE:
[-v|--verbose] : to print the command line arguments
[uninstall.sh] : Uninstall.sh is created in "BASE_DIR" (given by user). This file can be used to uninstall the deployed Agent Modules.

Syntax for long arguments
Eg: ./CavissonAgentInstaller<x.y.z.build_number>.bin --basedir="/opt" --user="cavisson" --cavisson-server="10.10.30.1000:443" --tier="Cavisson-NS_East" --server="CC-NCMON" --setup-name="NCMON" --cavisson-serve
r-protocol="WSS" --gateway-server="10.10.30.1000:443" --nf-endpoint-prefix="netforest" --verbose="true" --tags="key=inline:value1,key=env:NDHOME:value2,key2=nds:proxyMode:value3" --attributes="key=inlin
e:value:value1"

Syntax for short arguments
Eg: ./CavissonAgentInstaller<x.y.z.build_number>.bin -b"/opt" -u"cavisson" -c"10.10.30.1000:443" -t"Cavisson-NS_East" -s"CC-NCMON" -l"NCMON" -e"NCMON" -p"WSS" -y"10.10.30.1000:443" -n"netforest" -v"true" -T"
key=inline:value1,key=env:NDHOME:value2,key2=nds:proxyMode:value3" -A"key=inline:value1"

```

Verification of Installation

Once you execute the installer, you can see the messages that show that agents are successfully installed.

```

2025-06-10 11:35:53 UTC | Cavisson Agent Installer | Cavisson Php application agent will be installed.
2025-06-10 11:35:53 UTC | Cavisson Agent Installer | Cavisson machine agent will be installed.
2025-06-10 11:36:00 UTC | Cavisson Agent Installer | Cavisson Java application agent will be installed
2025-06-10 11:36:00 UTC | Cavisson Agent Installer | Cavisson python agent will be installed
2025-06-10 11:36:00 UTC | Cavisson Agent Installer | Cavisson nodejs agent will be installed.
2025-06-10 11:36:36 UTC | Cavisson Agent Installer | Configuring cavisson machine agent as init service.
2025-06-10 11:37:05 UTC | Cavisson Agent Installer | Cavisson machine agent is installed successfully and started machine agent service
2025-06-10 11:37:59 UTC | Cavisson Agent Installer | CavNdProxy is installed successfully and init service started with user:cavisson
2025-06-10 11:37:59 UTC | Cavisson Agent Installer | Cavisson PHP agent configured successfully
2025-06-10 11:38:00 UTC | Cavisson Agent Installer | Cavisson python agent is installed and configured successfully.
2025-06-10 11:38:00 UTC | Cavisson Agent Installer | Cavisson NodeJS agent is installed and configured successfully.
2025-06-10 11:38:01 UTC | Cavisson Agent Installer | Agents are configured completely. Restart the application to monitor it.

```

Directory Structure

Following directory structure should be created after Agent Installation.

```

For Machine Agent: $Base_DIR/cavisson/monitors
For Java Agent: $Base_DIR/cavisson/netdiagnostics/java
For NodeJs Agent: $Base_DIR/cavisson/netdiagnostics/nodejs
For PHP Agent: $Base_DIR/cavisson/netdiagnostics/php
For Python Agent: $Base_DIR/cavisson/netdiagnostics/python
For Proxy: $Base_DIR/cavisson/netdiagnostics/proxy

```

Files to check for Machine Agent

Check for the files present at the below mentioned paths.

Path - \$Base_DIR/cavisson/monitors

```
drwxrwxr-x 2 cavisson cavisson 4.0K May 31 00:08 tmp
drwxr-xr-x 5 cavisson cavisson 4.0K May 31 00:08 custom
drwxrwxr-x 2 cavisson cavisson 4.0K May 31 00:08 mibs
drwxrwxr-x 2 cavisson cavisson 4.0K May 31 00:08 thirdparty
drwxrwxr-x 2 cavisson cavisson 4.0K May 31 00:08 conf
drwxrwxr-x 3 cavisson cavisson 4.0K May 31 00:09 netHavoc
drwxrwxr-x 7 cavisson cavisson 4.0K May 31 00:09 etc
drwxrwxr-x 2 cavisson cavisson 20K May 31 00:09 bin
drwxrwxr-x 3 cavisson cavisson 4.0K May 31 00:13 nf
-rw-r--r-- 1 cavisson cavisson 331M Jun 10 17:17 cmon_nfagent.4.14.0.106.tar.gz
drwxrwxr-x 2 cavisson cavisson 4.0K Jun 10 17:18 lib
drwxrwxr-x 3 cavisson cavisson 4.0K Jun 10 17:18 certs
drwxr-xr-x 3 cavisson cavisson 4.0K Jun 10 17:33 logs
drwxrwxr-x 3 cavisson cavisson 4.0K Jun 10 18:20 svcs
```

Files to check for Java Agent

Check for **lib** directory files present at the below mentioned paths.

Path - \$Base_DIR/cavisson/netdiagnostics/java

```
-rw-rw-r-- 1 cavisson cavisson 6.8M May 30 21:54 ndutil.jar
-rw-rw-r-- 1 cavisson cavisson 56K May 30 21:54 ndproxy.jar
-rw-rw-r-- 1 cavisson cavisson 23K May 30 21:54 ndmain.jar
-rw-rw-r-- 1 cavisson cavisson 4.9M May 30 21:54 ndagent-with-dep.jar
-rw-rw-r-- 1 cavisson cavisson 148K May 30 21:54 ndagentlauncher.jar
-rw-rw-r-- 1 cavisson cavisson 376K May 30 21:54 ndagent.jar
-rwxrwxr-x 1 cavisson cavisson 4.7M May 30 21:54 libjavanativeagent.so
-rw-rw-r-- 1 cavisson cavisson 4.3K May 30 21:54 com_cavisson_ndutils_nativeagent_NDNativeAgentProfiling.h
-rw-rw-r-- 1 cavisson cavisson 5.1K May 30 21:54 cavagent.jar
-rw-rw-r-- 1 cavisson cavisson 8.6K May 30 21:54 awslambdaplugin.jar
```

Files to check for NodeJS Agent

Check for the files present at the below mentioned paths.

Path - \$Base_DIR/cavisson/netdiagnostics/nodejs/src/netjsagent

```
drwxrwxr-x 23 cavisson cavisson 4.0K May 30 21:54 lib
-rw-rw-r-- 1 cavisson cavisson 2.0K May 31 00:08 README.md
-rw-rw-r-- 1 cavisson cavisson 2.3K May 31 00:08 package.json
-rw-rw-r-- 1 cavisson cavisson 4.6K May 31 00:08 netjsagent.js
-rw-rw-r-- 1 cavisson cavisson 167 May 31 00:08 main.js
-rw-rw-r-- 1 cavisson cavisson 586 May 31 00:08 jsCustomInstrumentation.json
-rw-rw-r-- 1 cavisson cavisson 1.8K May 31 00:08 cavisson_lambda_wrapper.js
drwxr-xr-x 141 cavisson cavisson 4.0K Jun 10 17:18 node_modules
```

Files to check for PHP Agent

Check the PHP Agent .so file and Proxy Control file are present at the below mentioned paths.

PHP Agent .so File

Path - \$Base_DIR/cavisson/netdiagnostics/php

File- cavPHP<version>Agent.<release>.<version>.so

File- cavisson.ini

Example:

In Ubuntu: /opt/cavisson/netdiagnostics/php. File- cavPHP8.2Agent.4.14.0.106_Ubuntu20.so

In CentOS/RHEL: /opt/cavisson/netdiagnostics/php. File- cavPHP8.0Agent.4.14.0.106_Red.so

Proxy Control File

Path: \$Base_DIR/cavisson/netdiagnostics/proxy/ "CavNDProxy.<release>.<version>"

Example:

In Ubuntu: /opt/cavisson/netdiagnostics/proxy. File- CavNDProxy.4.14.0.106_Ubuntu20

In CentOS/RHEL: /opt/cavisson/netdiagnostics/proxy. File- CavNDProxy.4.14.0.106_Oracle

Linking of PHP

In Ubuntu20:

/etc/php/<PHP_Version>/<webserver>/conf.d/cavisson.ini ->

/opt/cavisson/netdiagnostics/php/cavisson.ini

Example:

/etc/php/7.4/apache2/conf.d/cavisson.ini -> /opt/cavisson/netdiagnostics/php/cavisson.ini

In RHEL/CentOS

/etc/php.d/cavisson.ini -> /opt/cavisson/netdiagnostics/php/cavisson.ini

Files to check for Python Agent

```
-rw-rw-r-- 1 cavisson cavisson 84K May 31 00:07 pythonagent-0.0.1.tar.gz
drwxrwxr-x 2 cavisson cavisson 4.0K May 31 00:08 scripts
-rwxrwxrwx 1 cavisson cavisson 2.6K May 31 00:08 install.sh
drwxrwxr-x 2 cavisson cavisson 4.0K May 31 00:08 hooksettings
-rwxrwxr-x 1 cavisson cavisson 255 May 31 00:08 cavagent
-rw-rw-r-- 1 cavisson cavisson 1.7M May 31 00:08 alllibs.zip
drwxrwxrwx 2 cavisson cavisson 4.0K Jun 10 17:17 logs
-rw-r--r-- 1 cavisson cavisson 6.7M Jun 10 17:17 pythonagent.4.14.0.106.zip
-rw-r--r-- 1 cavisson cavisson 25 Jun 10 17:17 version
drwxr-xr-x 2 cavisson cavisson 4.0K Jun 10 17:17 config
cavisson@cavisson:/opt/cavisson/netdiagnostics/python$ python3
Python 3.8.10 (default, Nov 22 2023, 10:22:35)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import pythonagent
>>> pythonagent.__file__
'/usr/local/lib/python3.8/dist-packages/pythonagent/__init__.py'
>>>
```

Check for the files present at the below mentioned paths.

Path - \$Base_DIR/cavisson/netdiagnostics/python

Configuring Application Agents

Java Agent

To enable Java Agent in any Java based server, add below command to the startup shell/Env setup file.

Apache Tomcat Server

```
CATALINA_OPTS="$CATALINA_OPTS -  
javaagent:$ND_HOME/java/lib/ndmain.jar=time,ndAgentJar=$ND_HOME/java/lib/n  
dagent-with-dep.jar,ndHome=$ND_HOME"  
export CATALINA_OPTS
```

JBoss Application Server

```
JAVA_OPTS="$JAVA_OPTS -  
javaagent:$ND_HOME/java/lib/ndmain.jar=time,ndAgentJar=$ND_HOME/java/lib/nd  
dagent-with-dep.jar,ndHome=$ND_HOME"  
JAVA_OPTS="$JAVA_OPTS -Djboss.modules.system.pkgs=com.cavisson.ndutils"
```

Path: /opt/jboss/wildfly/bin

File: standalone.conf

Where, ND_HOME=\$Base_DIR/cavisson/netdiagnostics

Note: For other Java Application Servers, Configure `javaagent` in the respective configuration file.

NodeJS Agent

To enable NodeJS Agent, Add the following line in the application's entry point file (i.e., where the application starts).

```
var netjsagent = require('netjsagent').instrument({ logLevel: 'debug',  
BCILoggingMode: 'FILE' });
```

OR

To start the application with the NodeJS Agent without changing the application code, use the following command:

```
node --require netjsagent/main.js app.js
```

Note: If application already have a `--require` statement, then add additional `--require` statement with `netjsagent/main.js`

Python Agent

To start the application with the Python agent, use the following command:

```
cavagent run python3 app.py
```

PHP Agent

No configuration required in PHP Agent.

Log Agent

To enable Log Agent, Add the following keywords in the **cmon.env** file.

```
CAV_MON_AGENT_OPTS="-F 1"  
OUTPUT_HOST1=<NF_HOST>  
OUTPUT_PORT1=<PORT>  
CAV_LOG_STORAGE_AUTO_DISCOVERY=false  
CAV_LOG_STORAGE_ENV=env  
CONFIG_PROTOCOL=https  
NF_ENDPOINT_PREFIX=/netforest  
Path: /opt/cavisson/monitors/sys/  
File: cmon.env
```

Uninstallation Steps

- In \$Base_DIR/cavisson, uninstall.sh file should be present after completion of installation.
- To uninstall, just run **./uninstall.sh**
- It clears all the files and processes, which are initiated and created by the Installer.