



One Agent Installer on Linux

For Cavisson Agents

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One Agent Installer On Linux

Purpose

Cavisson Agent Installer is a robust software tool designed for deploying monitoring agents across diverse environments. It facilitates seamless integration into applications, servers, and networks, enabling comprehensive performance monitoring and diagnostics. With its adaptable configurations, Cavisson Agent Installer ensures efficient deployment and management of monitoring agents, enhancing overall system reliability and performance optimization efforts.

Included Agents

- **Application Agent(s):** Monitor PHP, Java, Python, NodeJS & Go based application performance and metrics.
- **Machine Agent:** Monitors system-level metrics such as CPU, memory, and disk usage.

Pre-Requisites

Before installing the Cavisson Agent Installer, ensure the following prerequisites are met for specific Agent installation:

Supported Operating System(s):

- Linux (64 bit)
- Ubuntu 20.04
- Ubuntu 16
- CentOS
- RHEL

Software Dependencies:

- **Java :** Minimum version required is Java 8.
- **Node.js:** Minimum version required is Node v12

- **Python:** Minimum version required is Python 3.6
- **PHP:** Ensure PHP is installed. Supported versions are 5.6, 5.4, 7.0, 7.1, 7.2, 7.3, 7.4, 8.0, and 8.1
- **Permissions:** Administrator or root privileges required for installing and configuring agents.
- **Disk Space:** Ensure at least 1 GB of disk space is available for the installation and operation of agents

Installation Steps

- **Download the Installer:**
Connect with your Customer Support representative to obtain the Cavisson Agent Installer package from the official Cavisson download page. Link: <https://nde.cav-test.com/HUB/CavissonAgentInstaller.version#>.bin>. **Sample Agent Installer File Name:** **CavissonAgentInstaller.4.14.0.63.bin**
- Once you have received the link, use the wget command to download the file. For e.g:

wget https://nde.cav-test.com/HUB/CavissonAgentInstaller.4.14.0.63.bin
- Store the file on your machine and provide execute permission.

chmod +x CavissonAgentInstaller-x.x.x.xx.bin
- Execute the installer file. For e.g.
 - **Using long Arguments** → **./CavissonAgentInstaller.4.14.0.63.bin** -basedir=/opt - user=cavisson -cavisson-server=10.10.30.100:443 -tier=Cavisson-NS_East -server=CC-NCMON -cavisson-server-protocol=WSS -gateway-server=10.10.30.100:443 -machine-agent
 - **Using Short Arguments**→ **./CavissonAgentInstaller.4.14.0.63.bin -c 10.10.30.1000:443 -t Cavisson-NS_East -s CC-NCMON -m**
 - After successfully installing the required agent, the agent can be found in the following path: **<\$BASE_DIR>/cavisson/netdiagnostics/<agent-name>** (e.g., /opt/cavisson/netdiagnostics/java, /opt/cavisson/netdiagnostics/php, etc.)

Note: For the Machine agent, the installation path is **<\$BASE_DIR>/cavisson/monitors/** (e.g., /opt/cavisson/monitors).

```
root@cavisson:/home/cavisson/AgentInstaller# ls -ltrh /opt/cavisson/
total 12K
drwxrwxr-x 15 cavisson cavisson 4.0K Dec 15 11:04 monitors
drwxr-xr-x  4 cavisson cavisson 4.0K Dec 17 11:17 netdiagnostics
-rwxr-xr-x  1 cavisson cavisson 2.8K Dec 17 11:18 uninstall.sh
```

- To check the AgentInstallation log, go to the installation path where you downloaded the CavissonAgentInstaller, as shown in the snapshot below.

```
root@cavisson:/home/cavisson/AgentInstaller# ls -ltrh
total 769M
-rwxrwxr-x 1 cavisson cavisson 769M Dec 15 11:18 CavissonAgentInstaller.4.14.0.63.bin
-rw-rw-r-- 1 cavisson cavisson 119 Dec 17 09:41 installation_2024-12-17_09-41-45.log
-rw-rw-r-- 1 cavisson cavisson 349 Dec 17 09:57 installation_2024-12-17_09-57-05.log
-rw-r--r-- 1 root root 4.1K Dec 17 09:59 installation_2024-12-17_09-57-25.log
root@cavisson:/home/cavisson/AgentInstaller#
```

Install Machine Agent:

Example: For installation of machine agent run the below command with appropriate parameters:

```
./CavissonAgentInstaller.4.14.0.63.bin --cavisson-server="<hostname:port>" --tier="enter_tier_name" --server="enter_server_name" --cavisson-server-protocol="WSS" --machine-agent
```

Example: `./CavissonAgentInstaller.4.14.0.63.bin --cavisson-server=10.10.30.100:443 --tier=Cavisson-NS_East --server=CC-NCMON --cavisson-server-protocol=WSS --gateway-server=10.10.30.100:443 --machine-agent`

```
cavisson@cavisson:~/AgentInstaller$ sudo su
root@cavisson:/home/cavisson/AgentInstaller# ./CavissonAgentInstaller.4.14.0.63.bin --cavisson-server="10.10.30.1000:443" --tier="Cavisson-NS_East" --server="CC-NCMON"
--setup-name="NCMON" --cavisson-server-protocol="WSS" --machine-agent
2024-12-17 09:57:25 UTC | Cavisson Agent Installer | Distribution: Ubuntu 20.04
2024-12-17 09:57:25 UTC | Cavisson Agent Installer | Checking root privileges...
2024-12-17 09:57:25 UTC | Cavisson Agent Installer | user is root
2024-12-17 09:57:25 UTC | Cavisson Agent Installer | Cavisson machine agent will be installed.
2024-12-17 09:58:09 UTC | Cavisson Agent Installer | Configuring cavisson machine agent as init service.
2024-12-17 09:58:12 UTC | Cavisson Agent Installer | Cavisson machine agent is installed successfully and started machine agent service
```

To check if the agent is installed successfully, run the command :

ps -ef | grep cmon.

```
root@cavisson:/home/cavisson/AgentInstaller# ps -ef|grep cmon
cavisson 2644009      1  0 09:58 ?        00:00:03 java -XX:+StartAttachListener -Djdk.attach.allowAttachSelf=true -DPKG=cmon -DCAV_MON_HOME=/opt/cavisson/monitors -Xms256m -Xmx256m -Djava.io.tmpdir=/opt/cavisson/monitors/tmp -DCLASSPATH=/opt/cavisson/monitors/lib/*:/opt/cavisson/monitors/custom:/opt/cavisson/monitors/bin/CavMonAgent.jar:/opt/amazon-corretto-8.372.07.1-linux-x64/lib/tools.jar -DPATH=/opt/cavisson/monitors/bin:/opt/cavisson/monitors/custom:/opt/amazon-corretto-8.372.07.1-linux-x64/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin -DJAVA_HOME=/opt/amazon-corretto-8.372.07.1-linux-x64.com.cavisson.monitoring.agent.CavMonAgent -F 0
cavisson 2644130      1  0 09:58 ?        00:00:00 /bin/sh /opt/cavisson/monitors/bin/nsu_check_cmon -l /opt/cavisson/monitors -p 2644009 -l 300 -s 1048576 -I 900 -P 7891
```

The installation path for Machine Agent is `<$BASE_DIR>/cavisson/monitors/` (e.g., `/opt/cavisson/monitors`).

```

root@cavisson:/home/cavisson/AgentInstaller# ls -ltrh /opt/cavisson/monitors/
total 329M
drwxrwxr-x 2 cavisson cavisson 4.0K Dec 15 11:03 tmp
drwxr-xr-x 5 cavisson cavisson 4.0K Dec 15 11:03 custom
drwxrwxr-x 2 cavisson cavisson 4.0K Dec 15 11:03 mibs
drwxrwxr-x 2 cavisson cavisson 4.0K Dec 15 11:03 lib
drwxrwxr-x 2 cavisson cavisson 4.0K Dec 15 11:03 thirdparty
drwxrwxr-x 2 cavisson cavisson 4.0K Dec 15 11:03 conf
drwxrwxr-x 3 cavisson cavisson 4.0K Dec 15 11:04 netHavoc
drwxrwxr-x 7 cavisson cavisson 4.0K Dec 15 11:04 etc
drwxrwxr-x 2 cavisson cavisson 16K Dec 15 11:04 bin
drwxrwxr-x 3 cavisson cavisson 4.0K Dec 15 11:09 nf
-rw-r--r-- 1 cavisson cavisson 329M Dec 17 09:57 cmon_nfagent.4.14.0.63.tar.gz
drwxrwxr-x 3 cavisson cavisson 4.0K Dec 17 09:58 certs
drwxr-xr-x 2 cavisson cavisson 4.0K Dec 17 10:13 logs
drwxrwxr-x 3 cavisson cavisson 4.0K Dec 17 11:00 sys
root@cavisson:/home/cavisson/AgentInstaller#

```

Install Php Agent:

Example:

For installation of Php Agent run the below command with appropriate parameters:

```
./CavissonAgentInstaller.4.14.0.63.bin --cavisson-server="10.10.30.100:443" --tier="Cavisson-NS_East" --server="CC-NCMON" --gateway-server="10.10.30.100:443" --php-agent
```

```

root@cavisson:/home/cavisson/AgentInstaller# ./CavissonAgentInstaller.4.14.0.63.bin --cavisson-server="10.10.30.100:443" --tier="Cavisson-NS_East" --server="CC-NCMON"
" --gateway-server="10.10.30.100:443" --php-agent
2024-12-17 11:21:13 UTC | Cavisson Agent Installer | Distribution: Ubuntu 20.04
2024-12-17 11:21:13 UTC | Cavisson Agent Installer | Checking root privileges...
2024-12-17 11:21:13 UTC | Cavisson Agent Installer | user is root
2024-12-17 11:21:13 UTC | Cavisson Agent Installer | Cavisson Php application agent will be installed.
2024-12-17 11:21:45 UTC | Cavisson Agent Installer | CavNdProxy is installed successfully and init service started with user:cavisson
2024-12-17 11:21:45 UTC | Cavisson Agent Installer | Cavisson PHP agent configured successfully
2024-12-17 11:21:45 UTC | Cavisson Agent Installer | Agents are configured completely. Restart the application to monitor it.

```

The installation path for Php Agent is <\$BASE_DIR>/cavisson/netdiagnostics/php

```

root@cavisson:/home/cavisson/AgentInstaller# ls -ltrh /opt/cavisson/netdiagnostics/
total 8.0K
drwxr-xr-x 4 cavisson cavisson 4.0K Dec 17 11:18 proxy
drwxr-xr-x 6 cavisson cavisson 4.0K Dec 17 11:18 php

```

Note: For Go ,Python and Php agent installations, proxy is used, so in that cases, the proxy will be installed.

- Similarly, if you want to install other agents like Go, Nodejs, Application Agent(Java), or Python, proceed with the above installation procedure and install the required agent with the appropriate parameters.
- To know which parameters are used for each agent, refer to the Appendix section, where all the keywords associated with each agent are listed.

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

```
./CavissonAgentInstaller.4.14.0.63.bin -help
```

or

```
./CavissonAgentInstaller.4.14.0.63.bin -h
```

```
cavisson@cavisson:~/AgentInstaller$ ls -ltrh
total 769M
-rwxrwxr-x 1 cavisson cavisson 769M Dec 15 11:18 CavissonAgentInstaller.4.14.0.63.bin
cavisson@cavisson:~/AgentInstaller$ ./CavissonAgentInstaller.4.14.0.63.bin --help
2024-12-17 09:41:45 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

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 cavis:
[-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" --gateway-server="10.10.30.1000:443" --nf-endpoint-prefix="netforest" --verbose="true" --tags="key=inline:value,value1,key1=env:NDHOME:value2,key2=nds:proxyMode:value3" -A"key=inline: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-NCHON" -i"NCHON" -e"NCHON" -j"ue1,key1=env:NDHOME:value2,key2=nds:proxyMode:value3" -A"key=inline:value,value1"
cavisson@cavisson:~/AgentInstaller$
```

Appendix:

Keywords and Their Values:

Keywords	Default	Mandatory	Machine Agent	PHP Agent	Java Agent	Python Agent	NodeJS Agent
-basedir	opt	No	Yes	Yes	Yes	Yes	Yes
-user	cavisson	No	Yes	Yes	Yes	Yes	Yes
-cavisson-server	Empty	Yes	Yes	Yes	Yes	Yes	Yes
-node-app-dir	current working dir	No	No	No	No	No	Yes
-tier	Empty	Yes	Yes	Yes	Yes	Yes	Yes
-server	Empty	Yes	Yes	Yes	Yes	Yes	Yes
-cavisson-server-protocol	WSS	No	Yes	Yes	Yes	Yes	Yes
-gateway-server	<server:1111>	No	No	Yes	No	Yes	No
proxyConType	0	No	No	Yes	No	Yes	No
proxyMode	1	No (If using proxy)	No	Yes	No	Yes	No
-heap-size	-Xms256m -Xmx256m	No	Yes	No	No	No	No
-index-prefix	Empty	No	No	No	No	No	No
-log-server	<ServerHost:Port>	Yes	No	No	No	No	No
-setup-name	Empty	No	No	No	No	No	No

-nf-endpoint-prefix	netforest	No	No	No	No	No	No
-endpointprefix	Collector	No	No	No	Yes	No	No
-nd-endpoint-prefix	collector	No	Yes	No	No	No	No
-python-version	python3	No	No	No	No	Yes	No
maxUDPPProcesses	5 (If using Proxy)	No	No	No	No	No	No

Uninstallation Steps:

The uninstall.sh script is designed to remove the Cavisson Machine Agent , Java , python, php, proxy, go and NodeJs agents from the system. The script will check for required permissions, stop relevant processes, and delete associated files and directories.

Running the Uninstallation Script

To execute the uninstall.sh script, navigate to the BASE_DIR/cavisson directory (eg., default BASE_DIR path is /opt) and run the following command:

```
./uninstall.sh
```

```
cavisson@cavisson:/opt/cavisson$ ls -ltrh
total 16K
drwxrwxr-x 15 cavisson cavisson 4.0K Jul 12 16:49 monitors
-rwxr-xr-x 1 cavisson cavisson 6.5K Jul 16 10:51 uninstall.sh
drwxr-xr-x 8 cavisson cavisson 4.0K Jul 25 08:14 netdiagnostics
cavisson@cavisson:/opt/cavisson$
```

Script Execution Flow

- The script first verifies if the user has root privileges. If the user has a root

privileges, the uninstallation process will proceed.

- The script prompts the user to confirm if they want to uninstall the Agent and clear all associated changes.

```
root@cavisson:/opt/cavisson# bash uninstall.sh
[INFO] Checking root privileges...
[INFO] User has root privileges. Proceeding with the uninstallation process.
Do you want to uninstall the Machine Agent and clear all the changes? Press [y/n]: y
[INFO] going to stop the cmon process..
[INFO] cmon process stopped successfully.
[INFO] Removing Machine Agent directories and files...
[INFO] Machine Agent uninstallation complete.
[WARN] No Java installation detected via script.
Do you want to uninstall the Cavisson Java agent and clear all the changes? Press [y/n]: n
[INFO] Aborting Java Agent uninstallation.
Do you want to uninstall the Node.js agent and clear all the changes? Press [y/n]: █
```

- If the user presses y, the script stops the process, removes the agent directories and files, and completes the uninstallation of the specific agent. If the user presses n, the script aborts the uninstallation process.