Agent Installation on Windows

Cavisson Agent

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Overview

This document provides steps for silent and automated installation of Cavisson agents on the Windows platform.

This includes the following agents:

1. Machine agent
2. Log agent
3. App agent

It contains prerequisites and the steps that need to be performed before the installation.

Platform Support

#	OS Version	DotNet Version	Processor bit
1	Windows Server 2008	4	32 bit
2	Window Server 2008	4	64 bit
3	Window Server 2008	4.5	32 bit
4	Window Server 2008	4.5	64 bit
5	Window Server 2012	4/4.5	32/64 bit
6	Window Server 2016	4/4.5	32/64 bit

Note: Silent installer also supports all other versions later to 2012.

Prerequisites

For Silent Mode

1. PowerShell runtime environment is required to execute the script. The PowerShell version should be later than or equal to 5.
2. Administrator might have disabled the script execution. To allow the script to run, open PowerShell as administrator and run the command: Set-ExecutionPolicy UnRestricted.
3. PowerShell may temporarily block execution of scripts downloaded from the internet. To unblock, the following has to be done on the machine from where the installer will run.
4. Right-click on the install.ps1 script and click Properties. From there, click Unblock.
5. Open PowerShell as administrator and navigate to the directory containing the script. Run the command unblock-file ./install.ps1 to unblock it.

For GUI Mode

1. Admin permission is also required for the installation via GUI mode.

Additional Prerequisites for Remote Installation

1. WinRM (Windows remote) services should be running on the server.
2. Inbound Rule should enable the server for WinRM Service from where the installer is running.
3. List of trusted remote servers should be added in configuration of WinRM Client on the machine from where the installer will run.

Installation in Silent Mode

Silent Mode installation can be done either from the targeted server or remotely. User needs to create a hostfile.txt containing Username, Password and Hostname of the servers if installing remotely.

1. Create the CavissonAgentInstaller folder in <C:\Program Files (x86)\> . User can create somewhere else as per his choice.
2. Download Cavisson-Agent-Installer.*.zip file using Cavisson repository in <C:\Program Files (x86)\

3. Extract it into the folder <C:\Proer>gram Files (x86)\CavissonAgentInstaller>.

4. Open PowerShell on your system with administrative privilege.

5. Navigate to the extracted directory <C:\Program Files (x86)\CavissonAgentInstaller>.

6. Create hostfile.txt under <C:\Program Files (x86)\CavissonAgentInstaller> with the following format if installing remotely.

Username1:Password1:Hostname1
Username2:Password2:Hostname2
Username3:Password3:Hostname3

1. Run **.\install.ps1** with required agent and its related args. Below parameters are supported in the script, you can pass with **.\install.ps1.**

Note: The folder needs to be copied at an appropriate place or select the folder during installation that does not have spaces in the file path.

Usage

Silent Mode Installation with All arguments

.\install.ps1 -installedPath “Provide installation dir Default <C:\Program Files (x86)\opt\cavisson\>” -appAgent “Provide Install Mode Install/Skip <1/0>” -machineAgent “Provide Install Mode Install/Skip <1/0>”> -logAgent “Provide Install Mode Install/Skip <1/0>” -tier “Provide Tier Name” -instance “Provide Instance Name” -poolName “Provide Pool Name <pool1,pool2>” -remoteinstall “Flag to enable remote install <0/1>” -dest “Provide Destination Folder <C:\Users\Administrator\Downloads>” -controller “Provide Cavisson server <hostname:443>” -protocol “Provide Protocol-Default: WSS” -msi “Provide msi name”-nfIndexPrefix “Provide Index Prefix” -nfServer “Provide Log Server <hostname:443>” -nfEnv “Provide Setup-name like Prod” -nfReloadPort “Provide ND Reload Port” -logFile “Log File Name” -server “Provide Server Name-Default: Hostname” -username “Provide Usernme to run Machine Agent with different user” -password “Provide password of above User” -installVCRuntime “Provide Flag to install bundled visual c++ runtime” -iisreset “Provide Flag to reset the IIS” -hostfile “Provide host file”

Note: All parameters are optional and if not provided on the command line are picked from the bundled configuration file in binary.

Case1: Silent mode installation from targeted server

.\install.ps1 -tier “Provide Tier Name” -controller “Provide Cavisson server <hostname:443>”

Case2: Silent mode installation on a targeted server remotely

.\install.ps1 -tier “Provide Tier Name” -controller “Provide Cavisson server <hostname:443>” -remoteinstall “Flag to enable remote install <1>” -hostfile “Provide host file”

Case 3: Install only Machine Agent and App Agent

.\install.ps1 -appAgent 1 -machineAgent 1 -tier “Provide Tier Name” -controller “Provide Cavisson server <hostname:443>” -nfIndexPrefix “Provide Index Prefix” -nfServer “Provide Log Server <hostname:443>” -poolName “Provide Pool Name <pool1,pool2>”

Note: Create hostfile.txt and use -hostfile “Provide host file” and -remoteinstall “Flag to enable remote install <0/1>” args if installing remotely.

Case 4: Install only Machine Agent, App Agent and Log Agent

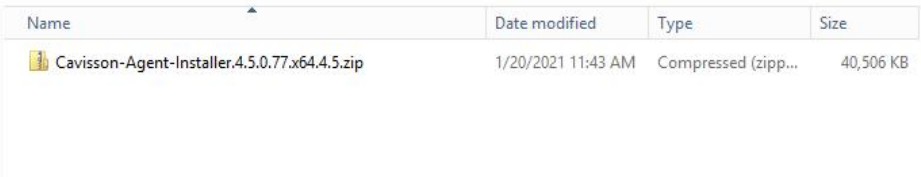
.\install.ps1 -appAgent 1 -machineAgent 1 -logAgent 1 -tier “Provide Tier Name” -controller “Provide Cavisson server <hostname:443>” -nfIndexPrefix “Provide Index Prefix” -nfServer “Provide Log Server <hostname:443>” -poolName “Provide Pool Name <pool1,pool2>” -nfEnv “Provide Setup-name like Prod” -nfReloadPort “Provide ND Reload Port” -logFile “Log File Name”.

Note: Create hostfile.txt and use -hostfile “Provide host file” and -remoteinstall “Flag to enable remote install <1>” args if installing remotely.

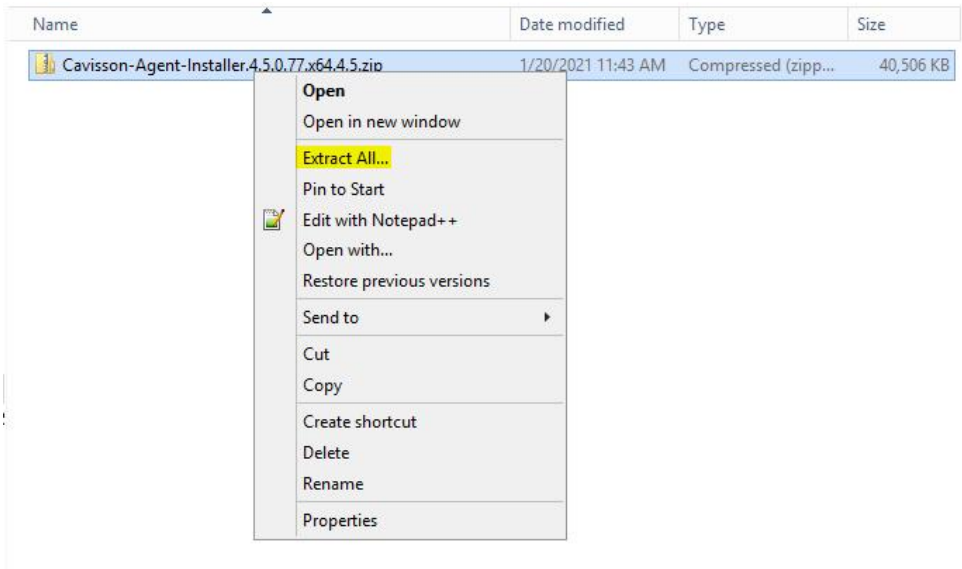
Installation in GUI Mode

1. Download the provided Agent MSI file.

Example: Cavisson-Agent-Installer.4.5.0.77.x64.4.5.zip



1. Unzip the MSI by right-clicking on the MSI zip file and select **Extract All**.

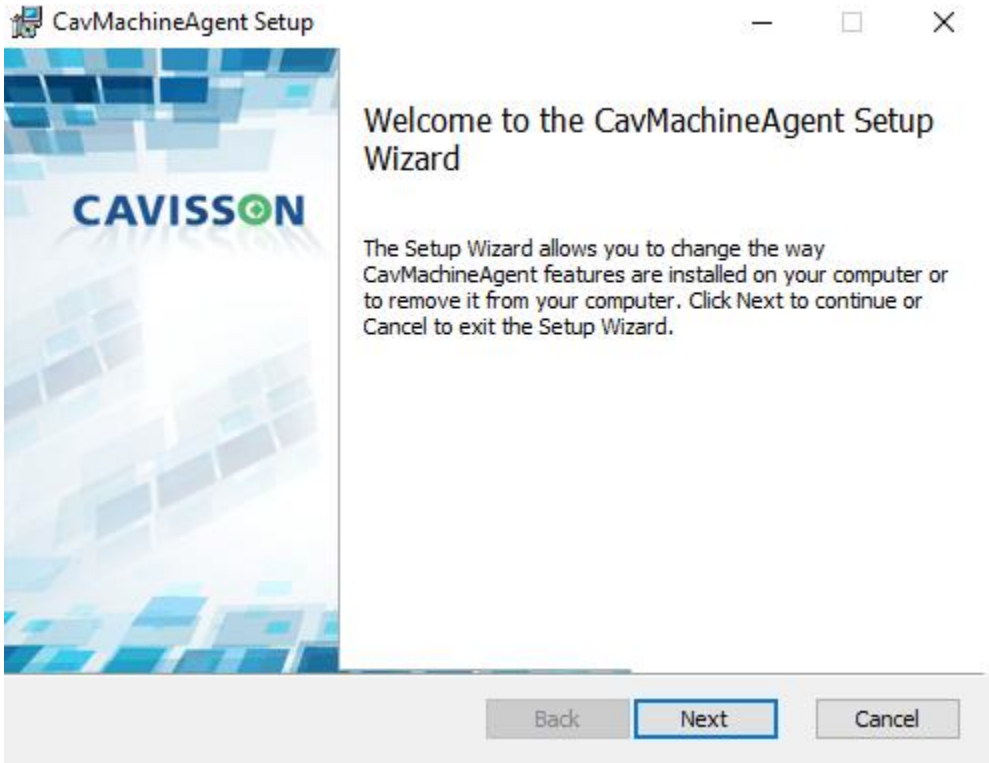


2. Unzip the MSI by right-clicking on the MSI zip file and select Extract All.

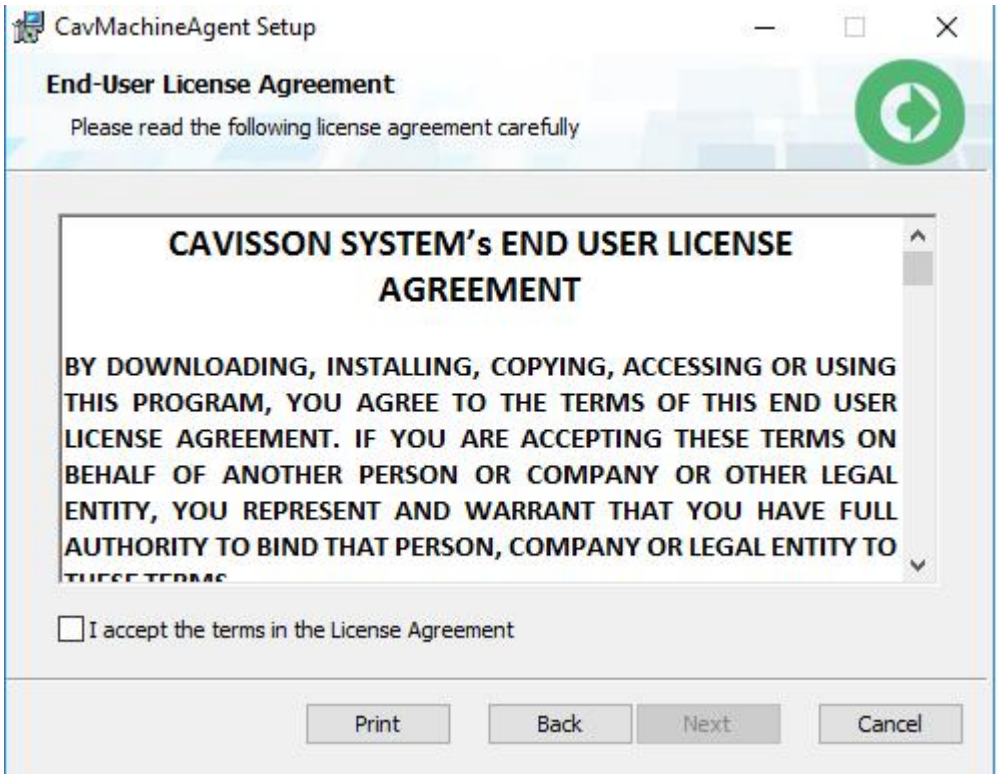
3. After extracting the MSI, open the folder and get the MSI file.

4. Execute the MSI by double-clicking on the MSI file (Cavisson-Agent-Installer.4.5.0.77.msi).

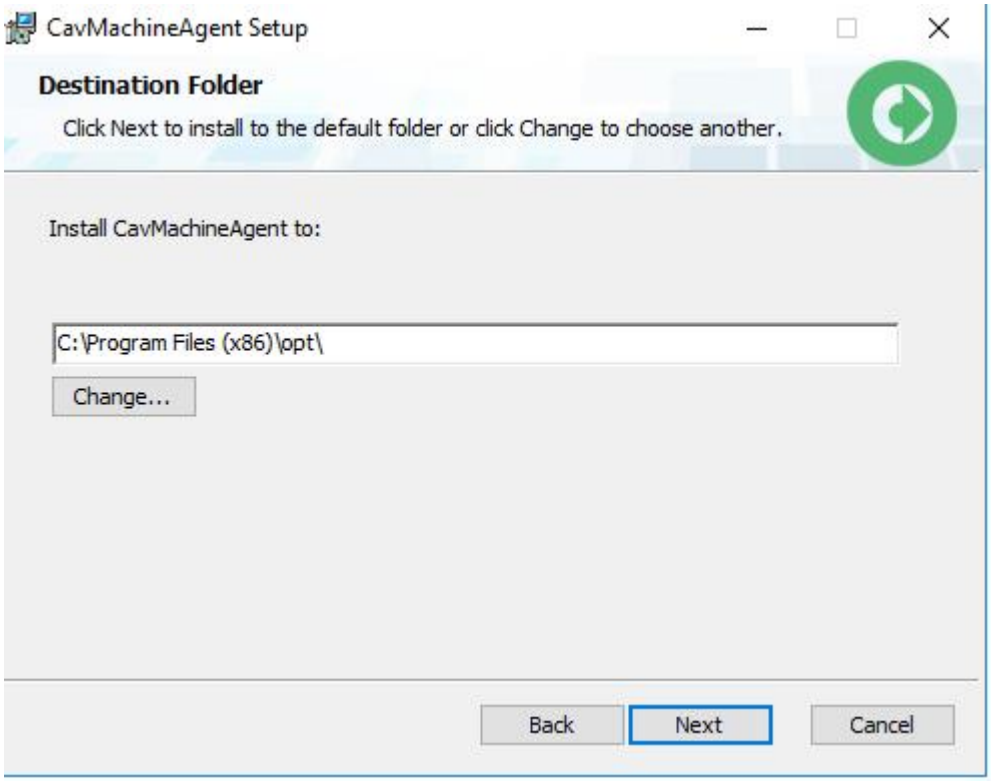
The **Welcome** page is displayed.



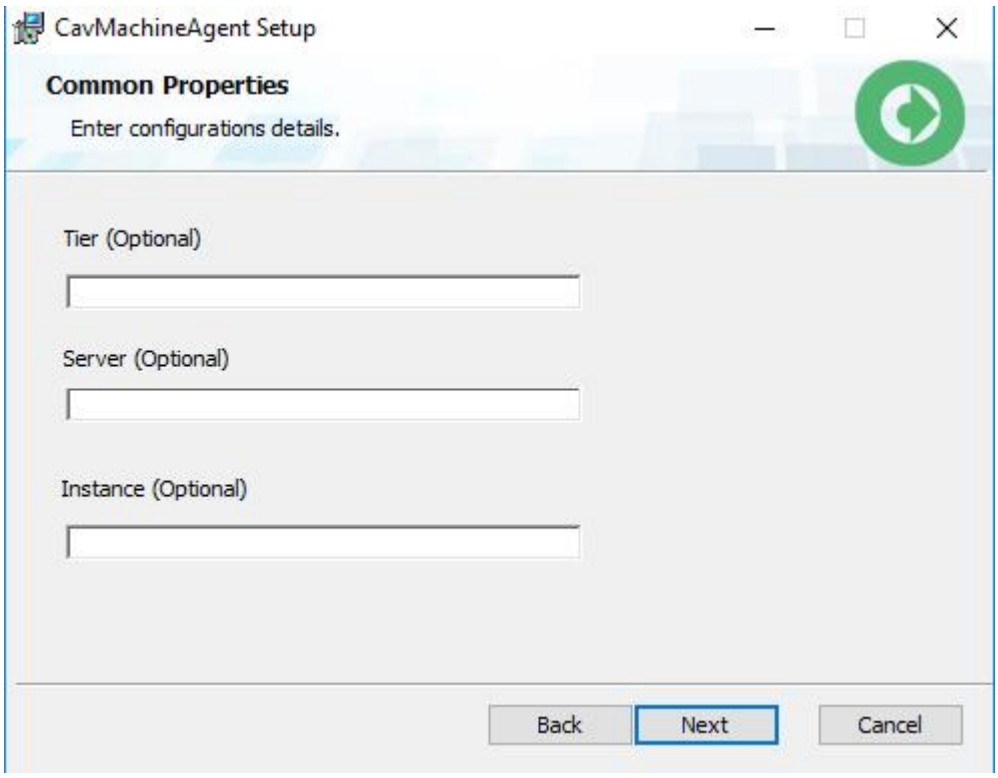
4. Click **Next**, the **License Agreement** window is displayed. Select the terms and conditions and click **Next**.



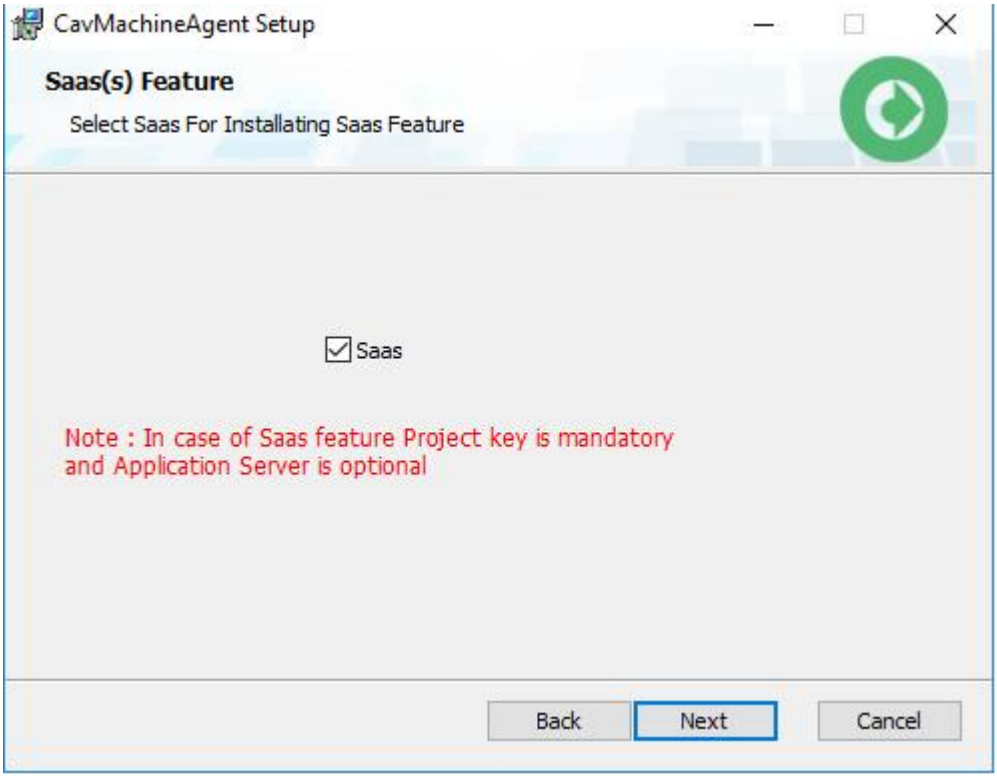
5. Click **Next**, the **Installation Path** is displayed.



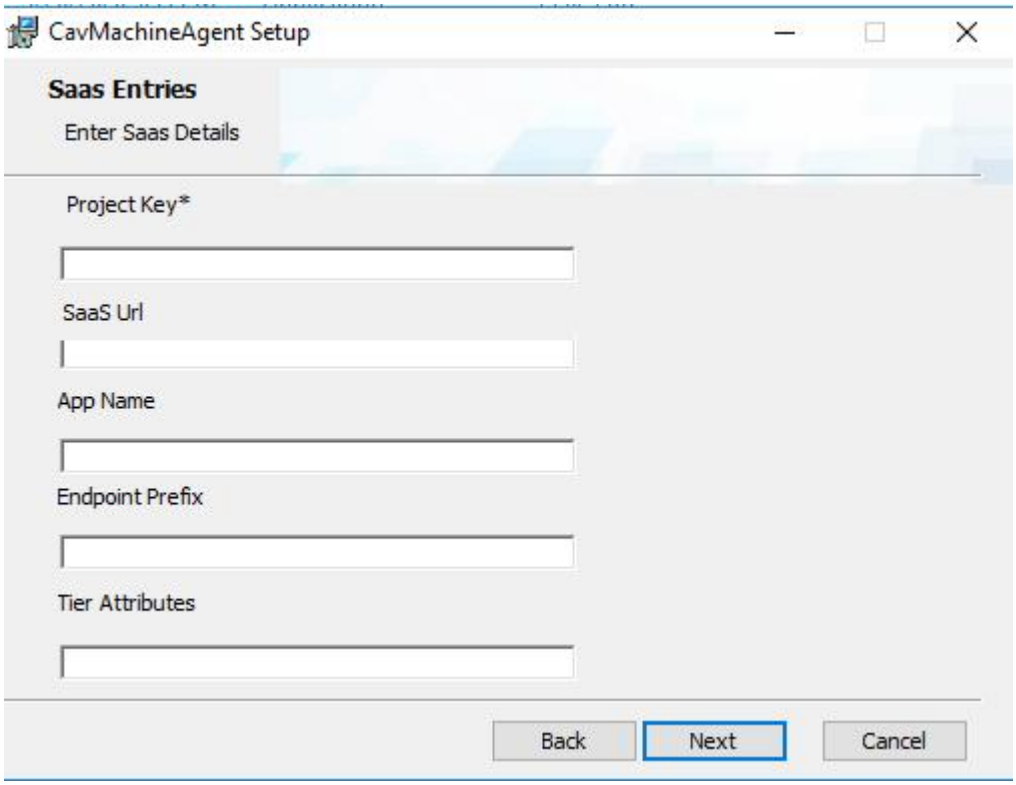
6. Click **Next**, the **Common Properties** window is displayed.



7. Click **Next**, the following window is displayed where you can enable SaaS features.

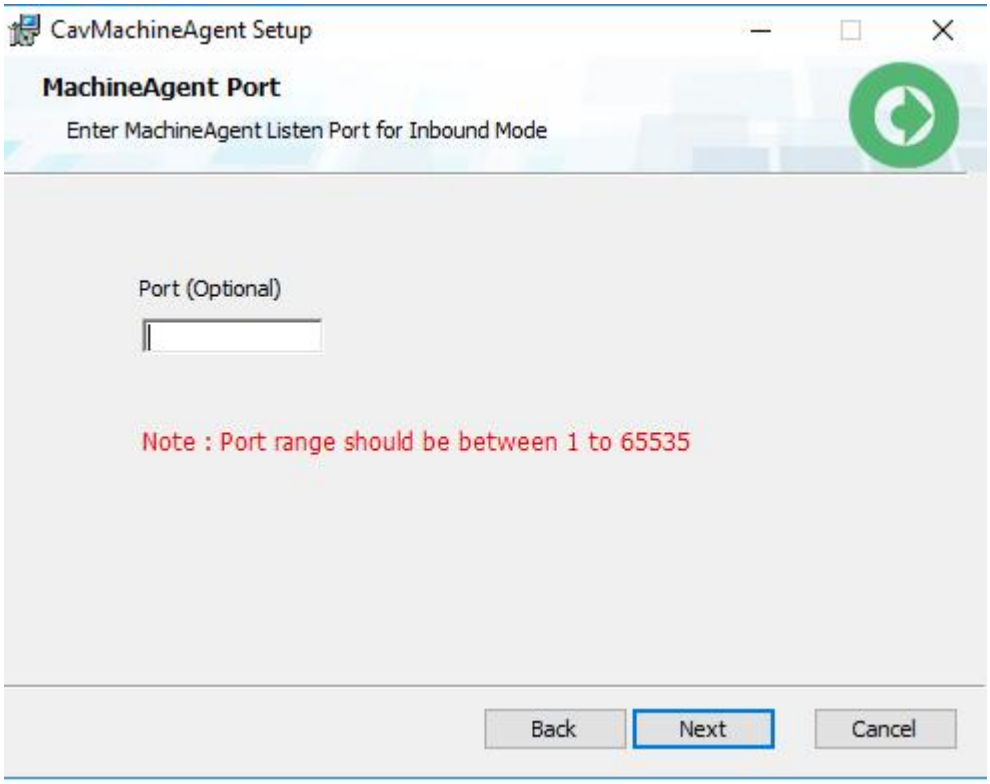


8. If you select the **SaaS** check box, the following window is displayed.

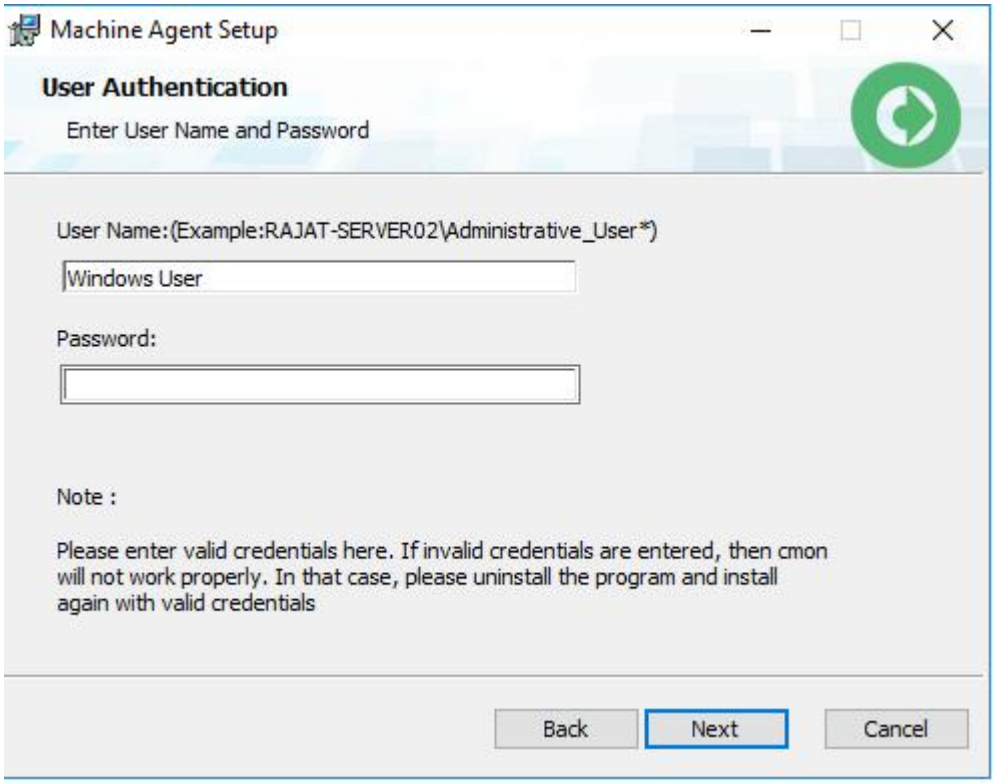


9. If you do not select the **SaaS** check box (in Step – 8), the **Agent(s) Selector** window is displayed.

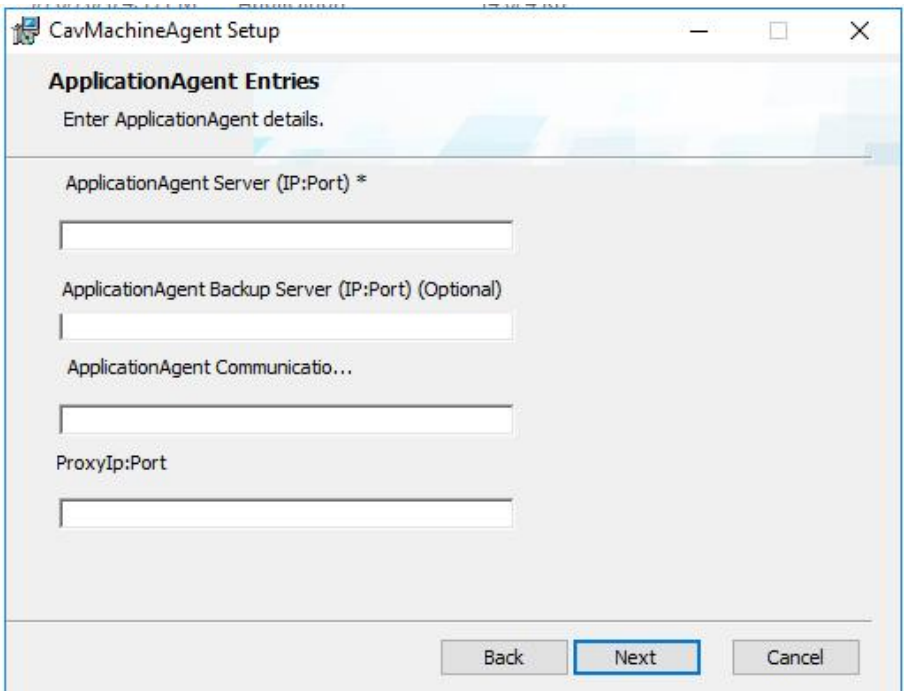
10. Click **Next**, the following window is displayed where you can select the **Machine Agent**



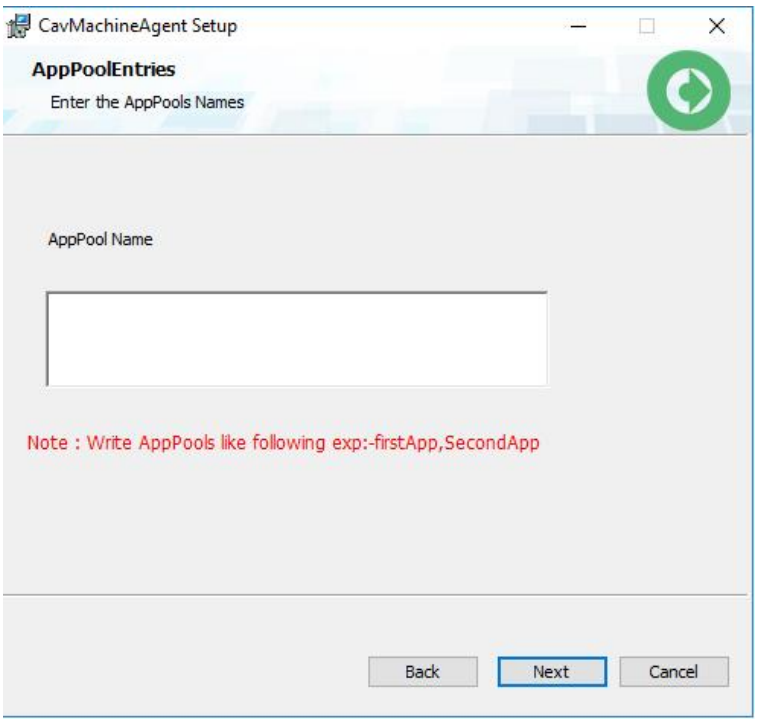
11. Click **Next**, the **User Authentication** window is displayed.



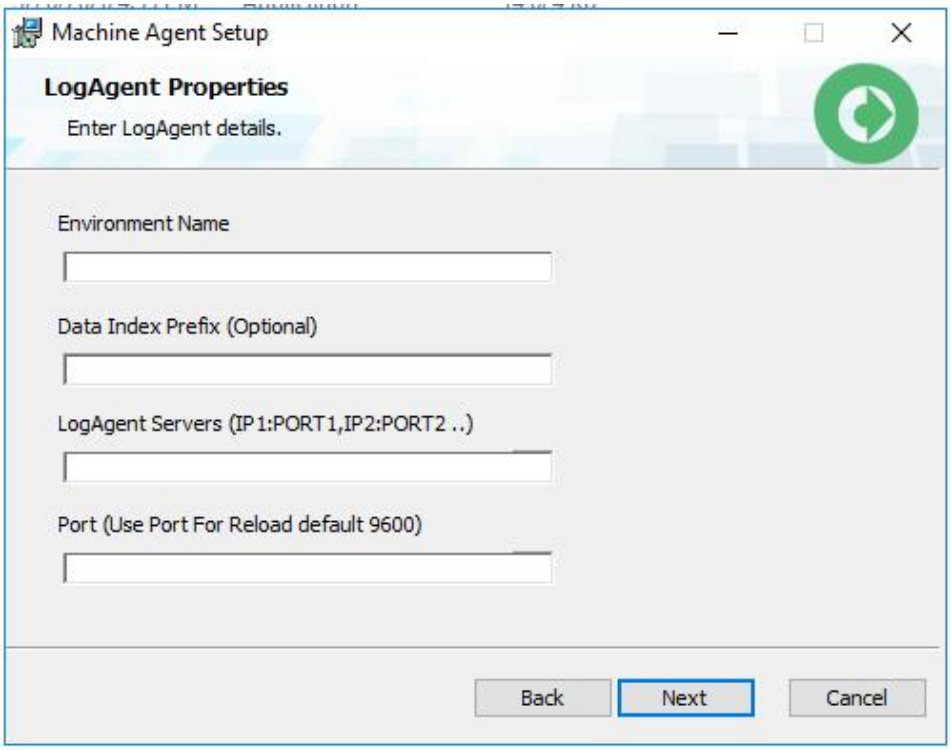
12. Click **Next**, the **ApplicationAgent Entries** window is displayed.



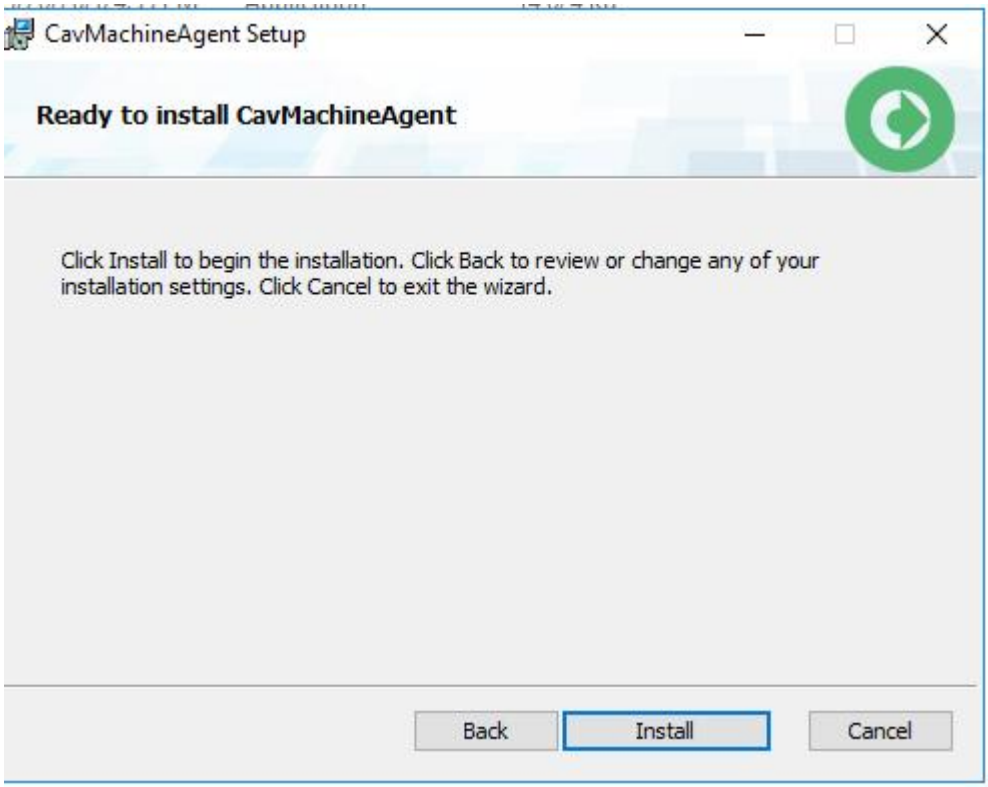
13. Click **Next**, the **AppPoolEntries** window is displayed.



14. Click **Next**, the **AppPoolEntries** window is displayed.

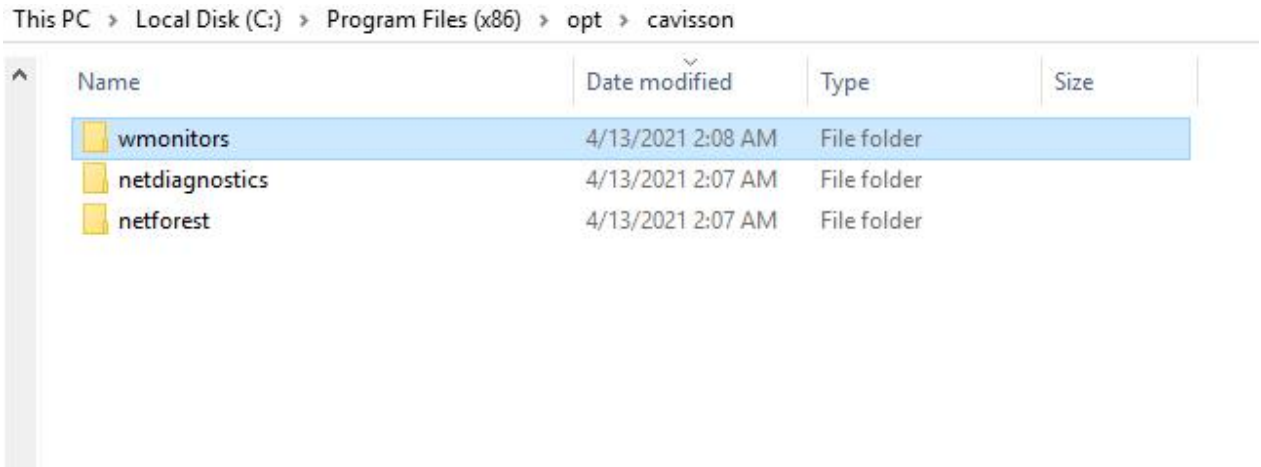


15. Click **Next**, the Agents are ready to install.



16. Click **Install**, the agents get installed.

Directory Structure after Installation



Services

You can see the running services in the **Services** tab.

Processes | Performance | Users | Details | Services

Name	PID	Description	Status	Group
AJRouter		AllJoyn Router Service	Stopped	LocalServiceN...
ALG		Application Layer Gateway Service	Stopped	
AppHostSvc	1876	Application Host Helper Service	Running	apphost
AppIDSvc		Application Identity	Stopped	LocalServiceN...
Appinfo	1176	Application Information	Running	netsvcs
AppMgmt	1176	Application Management	Running	netsvcs
AppReadiness		App Readiness	Stopped	AppReadiness
AppVClient		Microsoft App-V Client	Stopped	
AppXSvc		AppX Deployment Service (AppXSVC)	Stopped	wsappx
aspnet_state		ASP.NET State Service	Stopped	
AudioEndpointBuilder		Windows Audio Endpoint Builder	Stopped	LocalSystemN...
Audiosrv		Windows Audio	Stopped	LocalServiceN...
AxInstSV		ActiveX Installer (AxInstSV)	Stopped	AxInstSVGroup
BFE	1132	Base Filtering Engine	Running	LocalServiceN...
BITS		Background Intelligent Transfer Service	Stopped	netsvcs
BrokerInfrastructure	740	Background Tasks Infrastructure Service	Running	DcomLaunch
Browser		Computer Browser	Stopped	smbsvcs
bthserv		Bluetooth Support Service	Stopped	LocalService
c2wts		Claims to Windows Token Service	Stopped	
CavWMON	17136	CavWMON	Running	
CDPSvc		Connected Devices Platform Service	Stopped	LocalService

Services (Local)

NFAgent

Stop the service
Restart the service

Description:
NetForest Agent for Windows Server

Name	Description	Status	Startup Type	Log On As
Net.Tcp Port Sharing Service	Provides ability t...		Disabled	Local Service
Netlogon	Maintains a secu...	Running	Automatic	Local Syste...
Network Connection Broker	Brokers connecti...	Running	Manual (Trig...	Local Syste...
Network Connections	Manages objects...		Manual	Local Syste...
Network Connectivity Assis...	Provides DirectA...		Manual (Trig...	Local Syste...
Network List Service	Identifies the net...	Running	Manual	Local Service
Network Location Awareness	Collects and stor...	Running	Automatic	Network S...
Network Setup Service	The Network Set...		Manual (Trig...	Local Syste...
Network Store Interface Ser...	This service deliv...	Running	Automatic	Local Service
NFAgent	NetForest Agent ...	Running	Automatic	Local Syste...
Offline Files	The Offline Files ...		Disabled	Local Syste...

Appendix – 1:

Steps to Add Trusted Hosts in WinRM Client Configuration

1. Open the run prompt and type **msc**.
2. Navigate to **Local Computer Policy** > **Computer Configuration** > **Administrative Templates** > **Windows Components** > **Windows Remote Management (WinRM)** > **WinRM Client**.
3. Enable **Trust the remote machine**. On the settings window, add the remote server name in the **trustedhostedlist**
4. Use * to trust all remote hosts.

Appendix – 2:

Additional Details for Silent Mode Installation

List of Parameters Supported In Silent Installation

#	NAME	TYPE	DEFAULT	MANDATORY	DESCRIPTION
1	Tier	String	None	Yes	Name to be given to a cluster of application servers running same application services
2	Controller	String	Empty	No	Cavisson Server to which Application and Machine agents will be posting the captured data. Input format is <hostname:port>
3	Instance	String	Empty	No	Instance Name
4	Protocol	String	WSS	Yes	Communication Protocol to be used. Default is WSS. Possible values WSS,WS,TCP.
5	Msi	String	AUTO	No	MSI Name, It picks up automatically from present working directory.
6	appAgent	Int	0	No	Flag to install appagent
7	machineAgent	Int	1	No	Flag to install machine Agent
8	Logagent	Int	1	No	Flag to install NF Log agent

9	poolName	String	ALL Pools	No	List of comma separated pool names if want to restrict application instrumentation to specific IIS Pools. Default is ALL
10	nfIndexPrefix	String	Empty	No	NF Index Prefix – Use when nfAgent is enabled. Prefix string that will be prefixed to all log indices managed by Log server Syntax: <prefix>_<env>_<tier>-<currentDate> Example: cav_stage_payment-2020-04-12
11	nfServer	String	Same as controller	No	NFServer host/IP. Default it is same as frontend controller
12	nfEnv	String	Empty	No	NF Environment name Eg: Dev/LLE/Stress/Prod
13	logFile	String	agent-install.log	No	Log filename(installation logs would be appended to this file)
14	remoteinstall	int	Empty	No	Flag to enable remote installation
15	Dest	String	Empty	Yes	Only when upgrading remotely (-remoteinstall is enabled). Related files are copied to remote host at this path. Default is C:\Users\Administrator\DownloadsDOTNET_WIN-G45LG581T0C_StockTraderWebAppPool.txt
16	Copy	Int	1	No	Useful when files are present in the remote directory. This

					saves time copying the executables.
17	installVCRuntime	Int	1	No	Flag to install bundled visual c++ runtime. When to update the vc version?
18	Username	String	None	No	For running Machine Agent under different user other than local system
19	Password	String	None	No	Password for specified username
20	Iisreset	Int	0	No	Flag to reset the IIS
21	hostfile	String	None	No	User:Password:Host entries with multiple lines in a file if upgrading on multiple remote servers.
22	Uninstall	Switch	False	No	Switch/Flag to uninstall agents. This switch can be used with other options such as – logAgent, appAgent, – machineAgent to remove specific products.
23	Upgrade	Switch	False	No	Switch/Flag to upgrade agents. This switch can be used with other options such as -logAgent, -appAgent, -machineAgent to upgrade specific products.
24	Partialuninsta	switch	False	No	Switch/Flag to uninstall specific agents. This switch

	ll				can be used with other options such as -logAgent, -appAgent, -machineAgent to remove specific products.
25	Ndproxy	string	empty	No	“Provide Gateway Server(Required for App Agent) <Gateway Server:port>”

Adding Keywords for SaaS Feature in Silent Mode Installation

#	NAME	TYPE	DEFAULT	MANDATORY	DESCRIPTION
1	Saas	String	None	No	For installing SaaS feature along with agents: 0/1
2	projectkey	String	None	Yes/No	In case of sass feature it will be mandatory otherwise not. Get it from Cavisson team.
3	url	String	None	No	Cavisson SaaS URL where all Monitored data is present.
4	tierattributes	String	None	No	Keyword for tierattributes. Default is Default.
5	appname	String	None	No	Keyword for appname. Default is Default

Note: When the SaaS feature is enabled, the project key is a mandatory field and the controller is optional.