



NetBrain® Next-Gen R12.1

Install NetBrain Ansible Agent on Linux

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Follow the steps to install Ansible Agent on Linux:

1. Complete the [pre-installation tasks](#).
2. [Install Ansible](#).
3. [Install Ansible Agent](#).

Pre-installation Tasks

- Only the following operating systems are supported:
 - RHEL 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 9.4 or 9.5
 - Oracle Linux 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 9.4 or 9.5
 - Alma 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 9.4 or 9.5
 - Rocky 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 9.4 or 9.5
 - Amazon Linux 2023
- Ensure you have installed the following components on your Linux Server prior to installing NetBrain Ansible Agent:
 - Ansible:
 - (Linux v8.*) 2.16 or higher versions with Paramiko or ansible-pylibssh.
 - (Linux v9.*) 2.14 or higher versions with Paramiko or ansible-pylibssh.
 - Systemd

Installing Ansible

Install Ansible with the system's package manager.

The steps below use Linux v8 as an example.

1. Log in to the Linux server as the **root** or **sudo** user.
2. Run the `yum --showduplicates list ansible` command to check installed and available packages.
 - a. If no package is listed, run the `yum install epel-release` command to install the **epel-release** package.

Note: This is an example command for Oracle Linux 8. Refer to [How to use EPEL](#) to find the correct command based on your system.

b. Enter **y** to confirm the download and installation of the package.

```
[root@Linux1 ~]# yum --showduplicates list ansible
Last metadata expiration check: 0:09:32 ago on Mon 21 Apr 2025 01:50:32 PM EDT.
Error: No matching Packages to list

[root@Linux1 ~]# yum install epel-release
Last metadata expiration check: 0:10:45 ago on Mon 21 Apr 2025 01:50:32 PM EDT.
Dependencies resolved.

...
Install 1 Package

Total download size: 24 k
Installed size: 35 k
Is this ok [y/N]: y
Downloading Packages:

...
Installed:

  epel-release-8-18.el8.noarch

Complete!
```

3. Download Ansible by running the `yum install ansible` command. Enter **y** to confirm the download and installation of Ansible.

```
[root@Linux1 ~]# yum install ansible
Extra Packages for Enterprise Linux 8 - x86_64
9.0 MB/s | 14 MB 00:01

...
Total download size: 75 M
Installed size: 562 M
Is this ok [y/N]: y
Downloading Packages:

...
Complete!
```

Note: If you have installed Ansible previously without **root** or **sudo** privileges, please uninstall it first, then reinstall it by following steps 2 and 3.

4. Run the `whereis ansible` command to check the path. The following steps use **/usr/bin/ansible** as an example.

```
[root@Linux1 ~]# whereis ansible
ansible: /usr/bin/ansible /etc/ansible /usr/share/ansible /usr/share/ansible
```

5. Install `ansible-pylibssh` or `paramiko` with Python.

- 1) Run the `cat /usr/bin/ansible|grep python3` command to obtain the Python path.

```
[root@Linux1 ~]# cat /usr/bin/ansible|grep python3
#!/usr/bin/python3.6
```

- 2) Navigate to the directory, verify if pip has been installed by running the `python3 -m pip -V` command.

```
[root@Linux1 ~]# cd /usr/bin
[root@Linux1 bin]# python3 -m pip -V
/usr/bin/python3: No module named pip
```

- 3) If pip is already installed, proceed directly to step 6).

```
[root@Linux1 bin]# python3 -m pip -V
pip 25.0.1 from /usr/local/lib/python3.12/site-packages/pip (python 3.12)
```

- 4) If `No module named pip` is displayed, run `curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py` to download the script used to install pip.

```
[root@Linux1 bin]# curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
          % Total    % Received % Xferd  Average Speed   Time     Time     Time  Current
                                         Dload  Upload   Total   Spent    Left  Speed
100 2246k  100 2246k    0      0  23.3M      0  --:--:--  --:--:--  --:--:-- 23.3M
```

- 5) Run `python3 get-pip.py` to install pip.

```
[root@Linux1 bin]# python3 get-pip.py
Collecting pip
  Downloading pip-25.0.1-py3-none-any.whl.metadata (3.7 kB)
...
Successfully installed pip-25.0.1
```

- 6) Run `<Python Path> -m pip install ansible-pylibssh` to install `ansible-pylibssh`.

```
[root@Linux1 bin]# /usr/bin/python3.12 -m pip install ansible-pylibssh
Collecting ansible-pylibssh
  Downloading ansible_pylibssh-1.2.2-cp312-cp312-manylinux_2_28_x86_64.whl.metadata (36 kB)
  Downloading ansible_pylibssh-1.2.2-cp312-cp312-manylinux_2_28_x86_64.whl (2.9 MB)
...
Installing collected packages: ansible-pylibssh
Successfully installed ansible-pylibssh-1.2.2
```

7) (Optional) Run `<Python Path> -m pip install paramiko` to install paramiko.

```
[root@Linux1 bin]# /usr/bin/python3.12 -m pip install paramiko
Collecting paramiko
  Downloading paramiko-3.5.1-py3-none-any.whl.metadata (4.6 kB)
...
Successfully installed bcrypt-4.3.0 paramiko-3.5.1 pynacl-1.5.0
```

Installing Ansible Agent

1. Log in to the Linux server as the **root** or **sudo** user.
2. Run the `mkdir` command to create a directory under the **/opt** directory to place the installation package. For example, **netbraintemp12.1**.
3. Run the `cd /opt/netbraintemp12.1` command to navigate to the **/opt/netbraintemp12.1** directory.
4. Copy the installation file to the **/opt/netbraintemp12.1** directory.

- **Option 1:** If the Linux server has no access to the Internet, obtain the **netbrain-ansibleagent-linux-x86_64-rhel-12.1.tar.gz** file from NetBrain and then upload it to the **/opt/netbraintemp12.1** directory by using a file transfer tool.
- **Option 2:** If the Linux server has access to the Internet, run the `wget <download link>` command under the **/opt/netbraintemp12.1** directory to directly download the **netbrain-ansibleagent-linux-x86_64-rhel-12.1.tar.gz** file from NetBrain official download site.

Note: Contact [NetBrain Support Team](#) to get the download link. The download link is case-sensitive.

Tip: Run the `yum -y install wget` command to install the **wget** command if it has not been installed on the server.

5. Run the `tar -zxvf netbrain-ansibleagent-linux-x86_64-rhel-12.1.tar.gz` command under the **/opt/netbraintemp12.1** directory to extract installation files.

```
[root@localhost netbraintemp12.1]# tar -zxvf netbrain-ansibleagent-linux-x86_64-rhel-12.1.tar.gz
netbrain-ansibleagent/
netbrain-ansibleagent/config/
netbrain-ansibleagent/config/setup.conf
...
netbrain-ansibleagent/install.sh
...
```

6. Run the `cd netbrain-ansibleagent/config` command to navigate to the **config** directory.
7. Modify the parameters in the **setup.conf** file located under the **config** directory and save the changes. For how to modify the configuration file, see Appendix: Editing a File with VI Editor for more details.

```
[root@localhost config]# vi setup.conf
#NetBrain Ansible Agent configuration file
#Note: Ansible Key can only contain letters, numbers or underscore.
AnsibleKey=Admin_1
BindIp=0.0.0.0
#The port must be between 1025 and 65535.
Port=9098
LogPath=/var/log/netbrain/ansibleagent
# Specify whether to use SSL to encrypt the connections to the License Agent Server.
# By default, it is disabled. no indicates disabled; yes indicates enabled.
UseSSL=no
Certificate=/opt/cert.pem
PrivateKey=/opt/key.pem
```

8. Run the `cd ..` command to navigate to the **netbrain-ansibleagent** directory.
9. Run the `./install.sh` script under the **netbrain-ansibleagent** directory to install the Ansible Agent.

- 1) Read the license agreement, and then type **YES** and press the **Enter** key.
- 2) Type **I ACCEPT** and press the **Enter** key to accept the license agreement. The script starts to install the Ansible Agent.

```
[root@localhost netbrain-ansibleagent]# ./install.sh
Please read the End User License Agreement ("EULA") for the license type (perpetual or
subscription) purchased in the order form at https://www.netbraintech.com/legal-tc/
carefully. I
have read the subscription EULA, if I have purchased a subscription license, or the perpetual
EULA, if I have purchased a perpetual license, at the link provided above. Please type "YES"
if
you have read the applicable EULA and understand its contents, or "NO" if you have not read
the
applicable EULA. [YES/NO]: YES
```

```

Do you accept the terms in the subscription EULA, if you have purchased a subscription
license, or the
perpetual EULA, if you have purchased a perpetual license? If you accept, and to continue
with the
installation, please type "I ACCEPT" to continue. If you do not accept, and to quit the
installation
script, please type "CANCEL" to stop. [I ACCEPT/CANCEL]: I ACCEPT

INFO: Dependent Package:
INFO: Component Name: Ansible Agent
INFO: RPM name: netbrainansibleagent
INFO: RPM package list:
INFO: Preprocessing SUCCEEDED
INFO: Starting install Ansible Agent ...
INFO: Starting to check system
INFO: Collecting system information SUCCEEDED.
INFO: Starting to check Linux OS info
INFO: Starting to check rpm exists
INFO: Starting to check systemd
INFO: System checking SUCCEEDED
INFO: Start dependencies checking...
INFO: Dependencies checkingSUCCEEDED.
INFO: Starting configuration parameters checking...
INFO: Configuration parameters checking SUCCEEDED.
...
INFO: Starting permission assigning...
INFO: Permission assigning SUCCEEDED.
netbrainansibleagent.service - NetBrain Ansible Agent Daemon
   Loaded: loaded (/usr/lib/systemd/system/netbrainansibleagent.service; enabled; vendor
preset: disabled)
      Active: active (running) since Wed 2019-04-24 02:56:25 EDT; 14ms ago
        Process: 12497 ExecStop=/usr/lib/netbrain/ansibleagent/python/bin/python3 NBAgent.py stop
(code=exited, status=0/SUCCESS)
      Main PID: 12518 (python3)
         CGroup: /system.slice/netbrainansibleagent.service
                  12518 /usr/lib/netbrain/ansibleagent/python/bin/python3 NBAgent.py start
Feb 05 14:53:55 perf-7187 systemd[1]: Started NetBrain Ansible Agent Daemon.
INFO: Starting service netbrainansibleagent SUCCEEDED.
INFO: Backing up uninstall.sh SUCCEEDED
INFO: Successfully installed Ansible Agent.

```

10. Run the `service netbrainansibleagent status` command to verify whether its service starts successfully.

```

[root@localhost netbrain-ansibleagent]# service netbrainansibleagent status
Redirecting to /bin/systemctl status netbrainansibleagent.service
netbrainansibleagent.service - NetBrain Ansible Agent Daemon
   Loaded: loaded (/usr/lib/systemd/system/netbrainansibleagent.service; enabled; vendor
preset: disabled)
      Active: active (running) since Wed 2019-04-24 02:58:08 EDT; 2min 14s ago
        Main PID: 19306 (python3)
         CGroup: /system.slice/netbrainansibleagent.service
                  ...

```

Parameters

The following table describes the parameters that can be configured when installing Ansible Agent.

Parameter	Default Value	Description
AnsibleKey	<code>Admin_1</code>	Specify the key used to authenticate the connections with Ansible Agent.
BindIP	<code>0.0.0.0</code>	Specify the IP address of Ansible Agent. Note: Modify the value only if you have multiple network cards on this machine.
Port	<code>9098</code>	Specify the port that the service of Ansible Agent listens to. Keep the default value as it is.
LogPath	<code>/var/log/netbrain/ansibleagent</code>	Specify the storage path for all log files of Ansible Agent.
UseSSL	<code>no</code>	Set whether to enable the encrypted connections to Ansible Agent by using SSL.
Certificate	<code>/etc/ssl/cert.pem</code>	Specify the storage path for all the certificates and key files used for SSL authentication. Note: It is required only if UseSSL is enabled.
PrivateKey	<code>/etc/ssl/key.pem</code>	Specify the name of SSL private key file. Note: It is required only if UseSSL is enabled.

Appendix: Uninstall Ansible Agent

1. Run the `rpm -qa|grep ansibleagent` command to check whether Ansible Agent exists on this server.

```
[root@localhost ~]# rpm -qa|grep ansibleagent
netbrainansibleagent-12.1.0-1.el.x86_64
```

2. If it exists, complete the following steps to uninstall it:

- 1) Run the `cd /usr/lib/netbrain/installer/ansibleagent` command to navigate to the **ansibleagent** directory.
- 2) Run the `./uninstall.sh` command under the **ansibleagent** directory.
- 3) Specify whether to remove all Ansible Agent data. To remove data, type **y** or **yes**., otherwise, type **n** or **no**.

```
[root@localhost ~]# cd /usr/lib/netbrain/installer/ansibleagent
root@localhost ansibleagent]# ./uninstall.sh
```

```
INFO: Creating uninstallation log file SUCCEEDED
INFO: Component Name: Ansible Agent
INFO: RPM name: netbrainansibleagent
INFO: Preprocessing SUCCEEDED
INFO: Starting to check RPM package.
INFO: System checking SUCCEEDED

INFO: Starting to uninstall Ansible Agent ...
WARNING: Do you want to remove the log files after uninstalling the Ansible Agent component?
Input [ yes | y ] if you want to remove the log files or [ no | n ] otherwise]: y
INFO: Rpm package removing SUCCEEDED
INFO: /var/log/netbrain/ansibleagent has been successfully removed success
INFO: Ansible Agent has been uninstalled successfully.
```