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# Manual Installation

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Azure CycleCloud can be installed using an ARM template, via Azure Marketplace or using a container in the Azure Container Registry. For production instances of CycleCloud, we recommend installing the product manually as outlined below.

Note: The CycleCloud product encompasses many pieces, including a command line transfer tool called pogo, node configuration software known as Jetpack, and an installable webserver platform called CycleServer. Because of this, you will find CycleServer referenced in many commands and directory names on the machine where the CycleCloud server is installed.

## System Requirements

To install CycleCloud, you must have administrator rights. In addition, your system needs to meet the following minimum requirements:

- A 64-bit Linux distribution
Java Runtime Environment (version 8 or higher)
At least 8GB of RAM
Four or more CPU cores
At least 50GB of free disk space
Administrator (root) privileges
Active Microsoft Azure Subscription

Note: CycleCloud may be installed on physical or virtualized hardware.

## SSH Key

The default SSH key used in CycleCloud is /opt/cycle\_server/ssh/cyclecloud.pem. If this does not already exist, it will be automatically generated upon startup (or restart) of CycleCloud.

## Installation

### Installing on Debian or Ubuntu

First, install wget if its not already installed. This will be used to fetch the Microsoft signing key.

```
CMD
sudo apt update && sudo apt -y install wget
```

Next, download the Microsoft signing key to Apt's trusted keyring

```
CMD
sudo wget -O /etc/apt/trusted.gpg.d/microsoft.asc https://packages.microsoft.com/keys/microsoft.asc
```

Finally, configure a cyclecloud.list file, update the Apt cache, and install cyclecloud.

```
CMD
sudo echo "deb [signed-by=/etc/apt/trusted.gpg.d/microsoft.asc] https://packages.microsoft.com/repos/cyclecloud bionic main" > /etc/apt/sources.list.d/cyclecloud.list
sudo apt update
sudo apt -y install cyclecloud
```

Note: Although the Apt repository is published for the bionic release of Ubuntu, CycleCloud is officially supported on all Ubuntu LTS releases under support by Canonical.

### Installing on Enterprise Linux (RHEL) clones

First, configure a cyclecloud.repo file.

```
CMD
```

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```
sudo cat > /etc/yum.repos.d/cyclecloud.repo <<EOF
[cyclecloud]
name=cyclecloud
baseurl=https://packages.microsoft.com/yumrepos/cyclecloud
gpgcheck=1
gpgkey=https://packages.microsoft.com/keys/microsoft.asc
EOF
```

Finally, install cyclecloud with `yum` or `dnf`.

CMD	Copy
<code>sudo yum -y install cyclecloud</code>	

### Installing from the Microsoft Download center

Download the [Azure CycleCloud install file](#) from the Microsoft Download Center and install using a package manager.

For the .rpm install file:

CMD	Copy
<code>yum install &lt;filename.rpm&gt;</code>	

For the .deb install file:

CMD	Copy
<code>dpkg -i &lt;filename.deb&gt;</code>	

#### Note

You must have write permission to the `/opt` directory. The CycleCloud installer will create a `cycle_server` user and unix group, install into the `/opt/cycle_server` directory by default, and assign `cycle_server:cycle_server` ownership to the directory.

Once the installer has finished running, you will be provided a link to complete the installation from your browser. Copy the link provided into your web browser and follow the configuration steps.

### Notes on Security

The default installation of CycleCloud uses non-encrypted HTTP running on port 8080. We strongly recommend [configuring SSL](#) for all installations.

Do not install CycleCloud on a shared drive, or any drive in which non-admin users have access. Anyone with access to the CycleCloud group will gain access to unencrypted data. We recommend that non-admin users not be added to this group.

## Configuration

After CycleCloud is installed, it is configured through your web browser. The login screen will load after the webserver has fully initialized, which can take several minutes.

### Step 1: Welcome

#### Azure CycleCloud Initial Setup

Step 1 of 3: Configure Account

---

**Welcome to Azure CycleCloud!**

This setup wizard will lead you through the steps required to configure Azure CycleCloud. Consult the Azure CycleCloud [documentation](#) for details on advanced configuration.

Please fill out the details below and click "Next" to proceed with Azure CycleCloud setup.

**Site Name**

A unique name for this installation. This will be used when tagging remote resources.  
**Examples:** *production, my-organization*

Site Name  A label for this installation

**Usage Data**

You will now set up the local administrator account for CycleCloud. This account is used to administer the CycleCloud application - it is NOT an operating system account. Enter a **User ID**, **Name** and **Password**, then click **Done** to continue.

#### Note

All CycleCloud account passwords must be between 8 and 123 characters long, and meet at least 3 of the following 4 conditions:

- Contain at least one upper case letter

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- Contain at least one lower case letter
- Contain at least one number
- Contain at least one special character: @ # \$ % ^ & \* - \_ ! + = [ ] { } | \ : ' , . ?

#### Step 4: Set Your SSH Key

Once you have set up your administrator account, you can set your SSH public key so that you can easily access any Linux machines started by CycleCloud. To set your SSH public key, go to "My Profile" under the user menu in the top right and choose "Edit Profile". [Learn about creating SSH keys here.](#)

## Update CycleCloud

See the [Update Azure CycleCloud](#) page.

English (United States)

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