

## How to Deploy a CloudGen Access User Directory Connector on Bare Metal / Virtual Machine

<https://campus.barracuda.com/doc/93201593/>

This article offers the option to either use the install script or use the manual steps listed below. Before you begin, check the prerequisites.

### Minimum OS supported versions:

- CentOS 7
- RHEL 8
- Any modern Debian-based OS (Ubuntu)

### Prerequisites:

- User Directory connector token
- Directory Provider authorization token. See [CloudGen Access User Directory Connector](#) for more information.

### Install Script

- The steps below will download and execute a script automatically. Barracuda Networks recommends that you inspect the content before execution.
- The script will install and enable a chrony service for time synchronization. This is required to ensure tokens are validated properly.
- **IMPORTANT:** Tokens are valid for approximately 10 days, and updating the token is an automated process; however, it is possible for this process to not complete properly. The result is that the token expires and new users/groups are not synchronized as expected. To avoid this issue, you can manually redeploy the token.

- Download and execute the installation script:

```
sudo bash -c "$(curl -fsSL  
https://url.access.barracuda.com/connector-linux)"
```

- This script can also be used for unattended installations:

```
curl -fsSLo install-connector-linux.sh  
https://url.access.barracuda.com/connector-linux
```

```
chmod +x install-connector-linux.sh
```

```
./install-connector-linux.sh -h
```

Install CloudGen Access User Directory Connector script

Available parameters:

- e - Extra connector environment variables (can be used multiple times)
- h - Show this help
- l string - Loglevel (debug, info, warning, error, critical), defaults to info.
- n - Don't start services after install
- t token - Specify CloudGen Access Connector enrollment token
- u - Unattended install, skip requesting input <optional>
- z - Skip configuring ntp server <optional>

### Example for unattended installation with CloudGen Access Connector enrollment token and Azure directory

Specify the token s inside quotes :

```
./ install-connector-linux.sh -u -t "https://xxxxxxxxxxxxx" -e  
"FYDE_AZURE_AUTH_TOKEN=xxxxxxxxx"
```

### CentOS/RHEL - Manual Steps

1. Install prerequisites.

```
sudo yum -y install yum-utils chrony
```

2. Ensure chrony daemon is enabled on system boot and started.

```
sudo systemctl enable chronyd
```

```
sudo systemctl start chronyd
```

3. Ensure time synchronization is enabled.

```
sudo timedatectl set-ntp on
```

4. Install yum repository manager and update cURL (necessary in old CentOS 7.0 versions).

```
sudo rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7
sudo yum -y install yum-utils curl
```

5. Add CloudGen Access repository.

```
sudo yum-config-manager -y --add-repo
https://downloads.access.barracuda.com/fyde.repo
```

6. Install the CloudGen Access User Directory Connector.

```
sudo yum -y install fyde-connector
sudo systemctl enable fyde-connector
```

7. Configure environment using a service unit override (example with Okta). Check all the available [parameters](#).

**NOTE:** Do *\*not\** quote the environment variable values, even if they contain spaces.

Example:

Environment='FYDE\_LDAP\_AUTH\_USERNAME=Joe Doe' - **Correct**

Environment='FYDE\_LDAP\_AUTH\_USERNAME="Joe Doe"' - **Incorrect**

```
sudo mkdir -p /etc/systemd/system/fyde-connector.service.d
sudo bash -c "cat > /etc/systemd/system/fyde-connector.service.d/10-
environment.conf <<EOF
[Service]
Environment='FYDE_ENROLLMENT_TOKEN=https://enterprise.access.barracuda.c
om/connectors/v1/connectorid1?'
Environment='FYDE_OKTA_AUTH_TOKEN=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx'
Environment='FYDE_OKTA_DOMAINNAME=xxxxxx.okta.com'
EOF"
```

```
sudo chmod 600 /etc/systemd/system/fyde-connector.service.d/10-
environment.conf
```

8. Reload and start the CloudGen Access User Directory Connector.

```
sudo systemctl --system daemon-reload
sudo systemctl start fyde-connector
```

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## Upgrading CloudGen Access User Directory Connector

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To upgrade your Barracuda CloudGen Access User Directory Connector to the latest version, execute the following command:

```
sudo yum upgrade fyde-connector
```

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### Debian / Ubuntu - Manual Steps

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1. Ensure time synchronization is enabled.

```
sudo timedatectl set-ntp on
```

2. Add CloudGen Access repository.

```
REPO_URL="downloads.access.barracuda.com"
wget -q -O - "https://$REPO_URL/fyde-public-key.asc" | sudo apt-key add -
sudo bash -c "cat > /etc/apt/sources.list.d/fyde.list <<EOF
deb https://$REPO_URL/apt stable main
EOF"
sudo apt update
```

3. Install CloudGen Access User Directory Connector:

```
sudo apt install fyde-connector
sudo systemctl enable fyde-connector
```

4. Configure environment using a service unit override (example with Okta). Check all of the available [parameters](#).

```
sudo mkdir -p /etc/systemd/system/fyde-connector.service.d
sudo bash -c "cat > /etc/systemd/system/fyde-connector.service.d/10-
environment.conf <<EOF
[Service]
Environment='FYDE_ENROLLMENT_TOKEN=https://enterprise.access.barracuda.c
om/connectors/v1/connectorid1?'
Environment='FYDE_OKTA_AUTH_TOKEN=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx'
Environment='FYDE_OKTA_DOMAINNAME=xxxxxx.okta.com'
EOF"
sudo chmod 600 /etc/systemd/system/fyde-connector.service.d/10-
environment.conf
```

5. Reload and start Barracuda CloudGen Access User Directory Connector.

```
sudo systemctl --system daemon-reload  
sudo systemctl start fyde-connector
```

## Troubleshooting

Check the Barracuda CloudGen Access User Directory Connector logs:

```
sudo journalctl -u fyde-connector -f
```

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