



## **DH2i DxEnterprise 20.0 Software: Ubuntu Installation Quick Start Guide**

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## Ubuntu Installation

This quick start guide describes how to install DxEnterprise on an Ubuntu Linux server. Using this guide, the user will install DxEnterprise dependencies and software, then join a second server (node) into a cluster.

### Prerequisites

The following requirements must be met before continuing with this guide:

- A physical or virtual machine running Ubuntu 16.04, 18.04, or 20.04. A second machine is required for joining two nodes into a cluster.

### Configure Server and Install Dependencies

1. Update the Ubuntu package list by using the command `sudo apt-get update`.
2. Update system packages using the command `sudo apt-get dist-upgrade`. If prompted to confirm, enter **Y**.
3. Ensure that the hostname is set and unique using the `hostname` command.
  - To rename the server, run `sudo hostnamectl set-hostname <name>`. The server must be restarted for the change to take effect.
4. Install Microsoft .NET 3.1 Runtime using [Microsoft's installation instructions](#).
5. Install remaining DxEnterprise dependencies by running `sudo apt-get install zip udisks2`.
6. OPTIONAL: Set host resolution for all servers (nodes) that will be participating in the cluster using `sudo nano /etc/hosts`. Write the IP address and hostname of the servers to the file and save.

### Install DxEnterprise

1. Download the DxEnterprise package signing key by running the command `wget -qO- https://repos.dh2i.com/public.gpg | sudo gpg --dearmor -o /etc/apt/trusted.gpg.d/dh2i.gpg`.
2. Register the DxEnterprise Ubuntu repository by running the command `sudo sh -c 'echo deb [arch=amd64] https://repos.dh2i.com/ bionic retail >/etc/apt/sources.list.d/dh2i.list'`.

**NOTE: The architecture parameter [arch=amd64] can be changed to arm64 or armhf to install DxEnterprise on those platforms.**

3. Update the Ubuntu package list by using the command `sudo apt-get update`.
4. Install DxEnterprise from the repository by running the command `sudo apt-get install -y dxenterprise`.

### Configure DxEnterprise

1. Activate the server using the command `sudo dxcli activate-server`.

#### Syntax

```
dxcli activate-server <key> [node]
```

#### Parameters

Name	Description	Required
key	The license key.	True
node	The name of the node (comma-separated list of multiples).	False

#### Example

```
dxcli activate-server AAAA-BBBB-CCCC-DDDD
```

2. Set the cluster passkey using the command `sudo dxcli cluster-set-secret`.

#### Syntax

```
dxcli cluster-set-secret
```

#### Parameters

Interactive only.

#### Example

```
dxcli cluster-set-secret
```

3. OPTIONAL: DxEnterprise can utilize NAT matchmaking to easily connect servers across the internet. Use the command `sudo dxcli set-otpk` to set a One-Time PassKey for the cluster. The One-Time PassKey expires one hour after creation by default.

***NOTE:*** *To use this feature, the license must have NAT enabled. To inquire about license status, visit [DH2i's Client Portal](#) or run the command `sudo dxcli get-producttype` and look for **NAT** listed among the features.*

#### Syntax

```
dxcli set-otpk [ttl] [otpk]
```

#### Parameters

Name	Description	Required
ttl	The time the key will expire.	False
otpk	The One-Time PassKey in base64.	False

#### Example

```
dxcli set-otpk
```

## Setup Second Node and Join to Cluster

1. Complete all the steps in the [Configure Server and Install Dependencies](#) section for the second node.
2. Complete the [Install DxEnterprise](#) section and step one of the [Configure DxEnterprise](#) section for the second node.
3. Join the second node to the cluster using `sudo dxcli join-cluster` and follow the prompts.

- If an OTPK was *not* set for the cluster, select **N** when prompted to join via NAT proxy. Enter the IP address and cluster passkey of the first server to join the cluster.
- If an OTPK was set for the cluster, select **Y** when prompted to join via NAT proxy. Enter the OTPK to join the cluster.

**Syntax**

```
dxcli join-cluster
```

**Parameters**

Interactive only.

**Example**

```
dxcli join-cluster
```

## References

- [DxEnterprise Admin Guide](#)
- [DxEnterprise DxCli Guide](#)
- [DH2i Support Portal](#)
- [Install .NET Core SDK or .NET Core Runtime on Ubuntu](#)