



## **DH2i DxEnterprise 20.0 Software: RHEL/CentOS Installation Quick Start Guide**

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## RHEL/CentOS Installation

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

### Prerequisites

The following prerequisites must be met before continuing:

- A physical or virtual machine running RHEL/CentOS 7 or 8. A second machine is required for joining two nodes into a cluster.

### Configure Server and Install Dependencies

1. Update the server using the command `sudo yum update`. If prompted to confirm, enter **Y**.
2. 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.
3. Install Microsoft .NET 3.1 Runtime using installation instructions from Microsoft. There are different instructions for [Red Hat](#) and [CentOS](#) servers.
4. Install remaining DxEnterprise dependencies by running `sudo yum install zip udisks2`.
5. 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 repository configuration file by running the command

```
sudo wget -O /etc/yum.repos.d/dh2i.repo  
https://repos.dh2i.com/<distro>/retail/repo.conf.
```

***NOTE:*** Replace the *<distro>* parameter with *rhel7*, *centos7*, or *rhel8* to download the correct *.conf* file. For CentOS 8, use *rhel8*.

2. Run the command `sudo yum 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 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 RHEL](#)
- [Install .NET Core SDK or .NET Core Runtime on CentOS](#)