DH2i DxOdyssey 21.0 Software:
Ubuntu Installation Quick Start Guide

Ubuntu Installation

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

Prerequisites

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

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 DxOdyssey dependencies by running `sudo apt-get install zip`.
6. OPTIONAL: Set host resolution for all servers (gateways) that will be participating in the gateway group using `sudo nano /etc/hosts`. Write the IP address and hostname of the servers to the file and save.

Install DxOdyssey

1. Download the DH2i 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 DH2i 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 DxOdyssey on those platforms.

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

Configure DxOdyssey

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

    Syntax
    ```
    dxcli activate-server <key> [gateway]
    ```

    Parameters

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

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

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

Syntax
```
dxcli gateway-group-set-secret
```

Parameters
Interactive only.

Example
```
dxcli gateway-group-set-secret
```

3. DxOdyssey utilizes NAT matchmaking to easily connect servers across the internet. Use the command `sudo dxcli set-otpk` to set a One-Time PassKey for the gateway group. The One-Time PassKey expires one hour after creation by default.

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 Gateway and Join to Gateway Group

1. Complete all the steps in the Configure Server and Install Dependencies section for the second gateway.
2. Complete the Install DxOdyssey section and step one of the Configure DxOdyssey section for the second gateway.
3. Join the second gateway to the gateway group using `sudo dxcli join-gateway-group` and follow the prompts. When asked to use a NAT proxy, select **Y**. Enter the OTPK to join the gateway group.

Syntax
```
dxcli join-gateway-group
```

Parameters

Interactive only.

Example
```
dxcli join-gateway-group
```

References

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