



NODE.X
Explore **X** World

NODE.X

Remote Device Management System

User Manual

Version 0.0.2

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Revision History

0.0.1	Initial version
0.0.2	Add introductions for Deploy Container, Device Container, Docker Install, Agent Update, Registry and Add Registry.

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Chapter 1

Overview

- 1.1 Architecture
- 1.2 NODE.X Server
- 1.3 NODE.X Agent

1. Overview

1.1. Architecture

NODE.X is a remote device management system that allows users to access or monitor the status of managed devices remotely.

1.2. NODE.X Server

NODE.X Server (<https://nodex.portwell.tw>) provides centralized device management and a web UI, enabling administrators to check device status and troubleshoot remotely in real time.



Figure 1. NODE.X Server

1.3. NODE.X Agent

The NODE.X Agent runs on managed devices and establishes a bi-directional connection with the NODE.X Server. This connection enables the orchestration of management features by the NODE.X Server.

Operating Systems supported:

Operating System	Kernel
Ubuntu 20.04	5.4.0-150-generic

Chapter 2

Quick Start

- 2.1 Create an account for your organization
- 2.2 Login
- 2.3 Install NODE.X Agent on device
- 2.4 Register the device
- 2.5 Add new users to your organization

2. Quick Start

2.1. Create an account for your organization

This step creates an organization and designates an administrator for the organization. If there are additional users within the same organization, please follow the steps below to add new users to the existing organization. Click on the "Register" text to be redirected to the sign-up page.



Figure 2. Register

Fill in the information for the organization and administrator; the account will be created.



Figure 3. Sign Up Page

2.2. Login

Log in using the email address and password of the administrator from step 2.1.

2.3. Install NODE.X Agent on device

Copy the .deb file to your device and install it using the command below:

```
# dpkg -i NodexAgent_[version].deb
```

Enable the NODE.X Agent service and start the service to connect to NODE.X Server.

```
# systemctl enable rmsagent.service
# systemctl start rmsagent.service
```

2.4. Register the device

Click the “Account” button and copy the organization token.

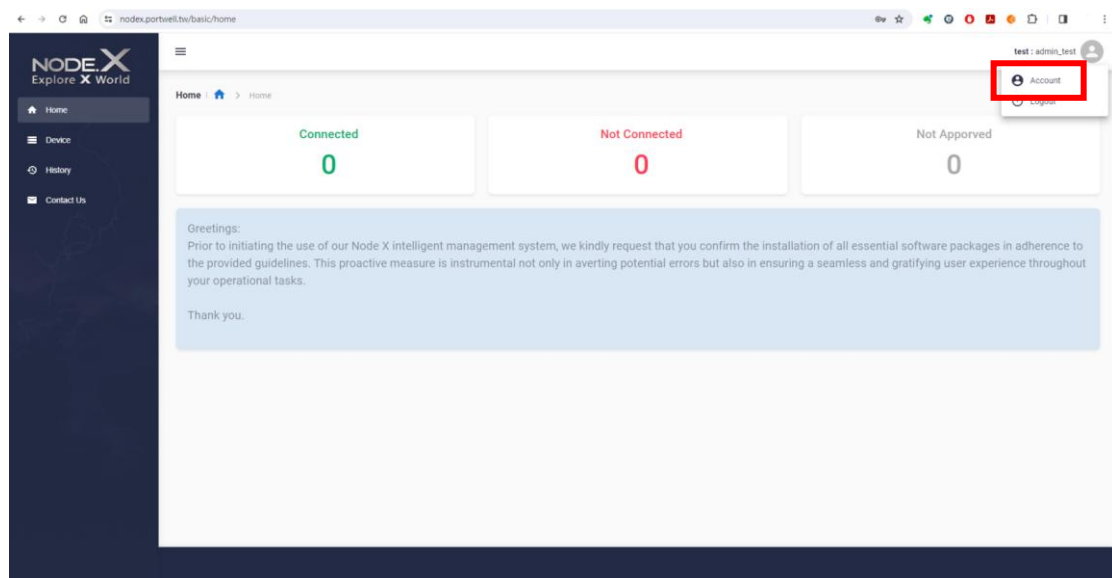


Figure 4. Account

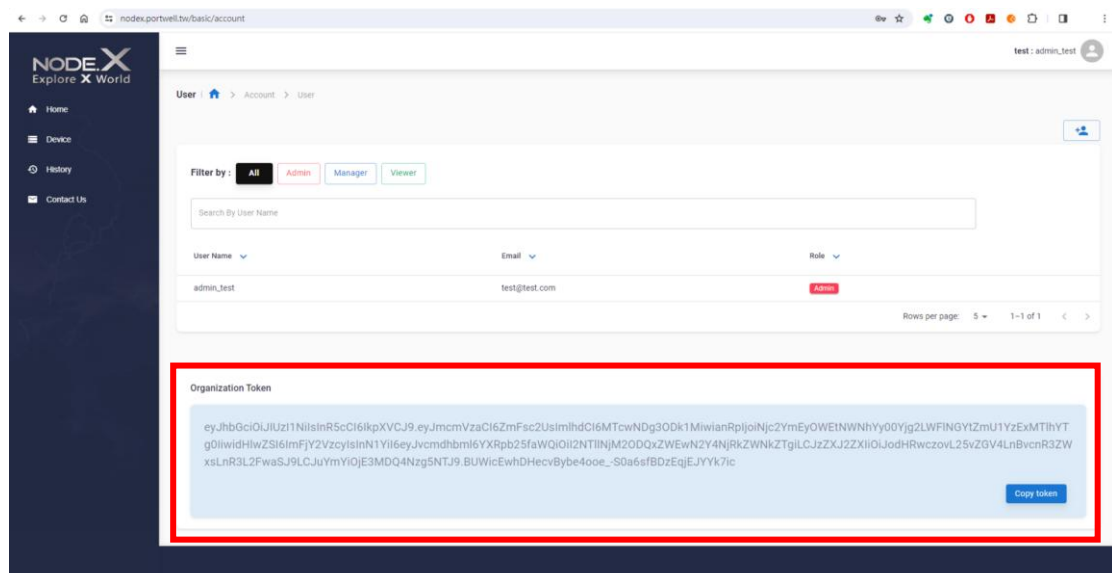


Figure 5. Organization Token

Connect to the device via direct console or SSH connection. Add the token to the device using a text editor such as vi or nano.

```
vi /usr/local/etc/rms/rmsagent/org_token
```

After a few seconds, a new "Not Approved" device will appear on the Home page of the web UI.

Click on "Device" in the sidebar; there will be a new "Not Approved" device in the list.

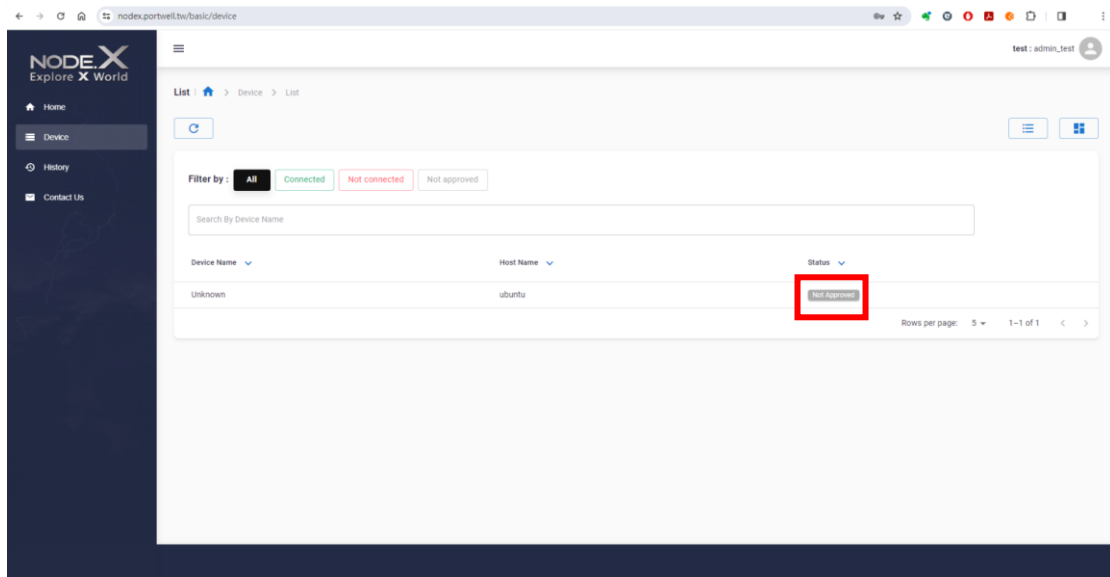


Figure 6. Device List

Click on the "Not Approved" device and toggle the switch to approve this device in the NODE.X Server.

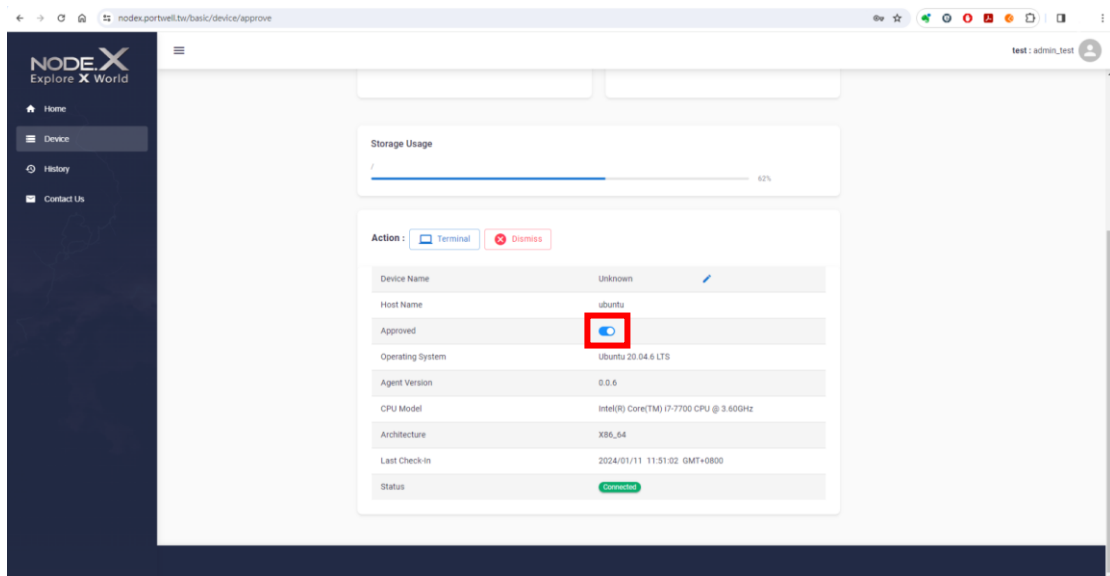


Figure 7. Approve the Device

2.5. Add new users to your organization

Click the “Add User” icon on the account page.

Fill in the information for the new user and click the “Add” button.

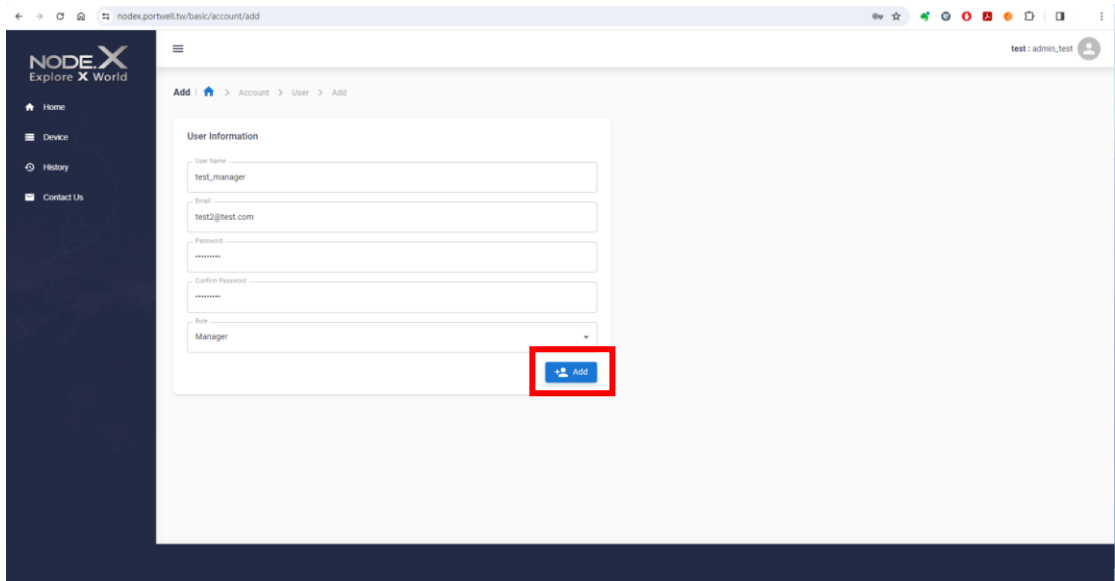


Figure 8. New User

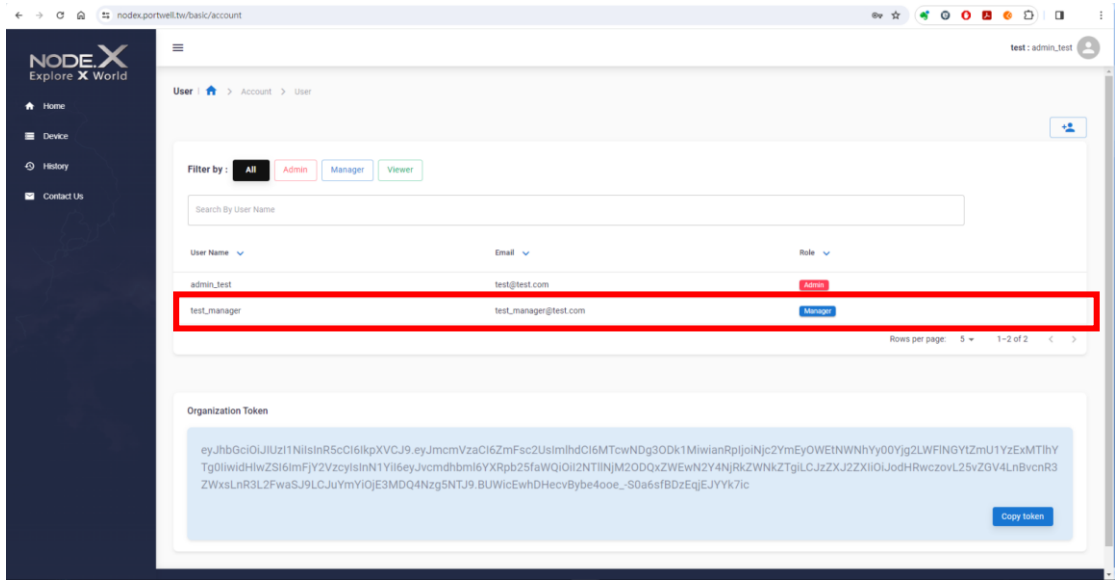


Figure 9. User List

Chapter 3

Home

3. Home

The home page displays the connection status of managed devices.

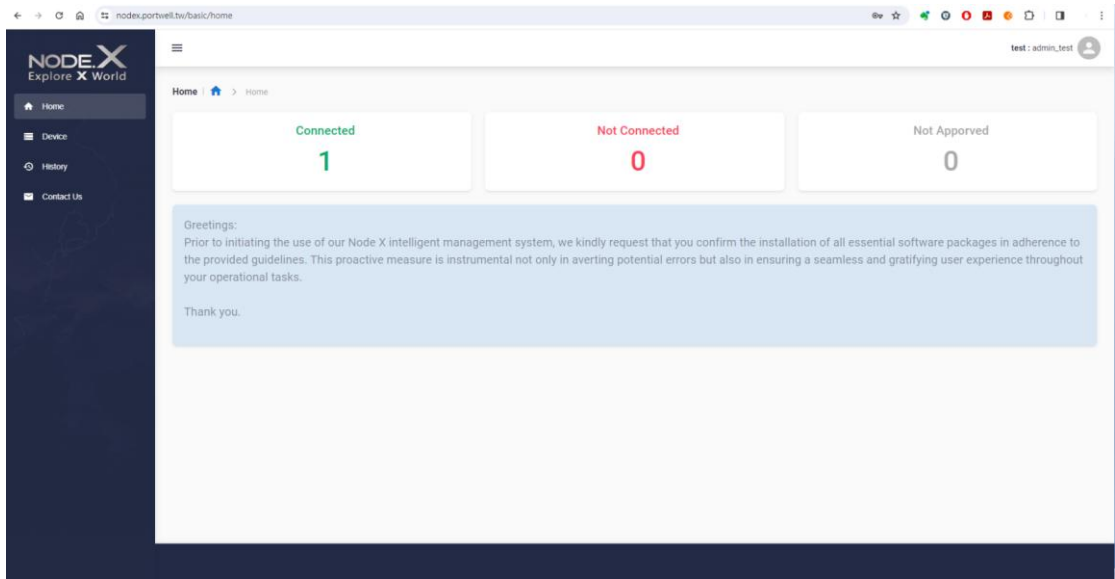


Figure 10. Home Page

Chapter 4

Account

- 4.1 User Management
- 4.2 Organization token

4. Account

The account page consists of two sections: user management and organization token.

4.1. User Management

The account page displays all members in the organization, allowing users to add/remove members, change user roles or information.

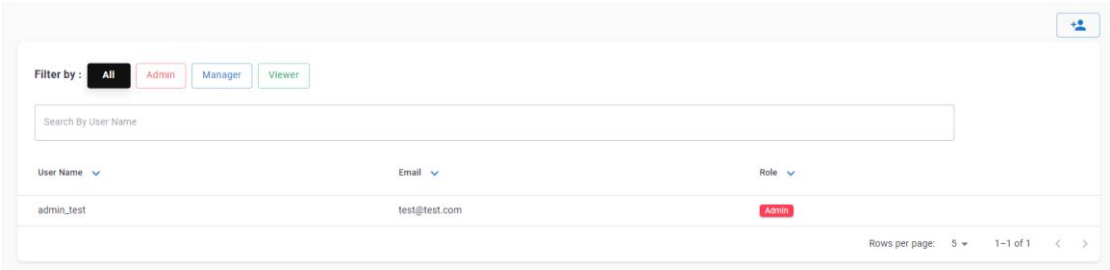


Figure 11. User Management

4.2. Organization Token

This section shows the organization's token for NODE.X Agent to be managed by a specific organization.

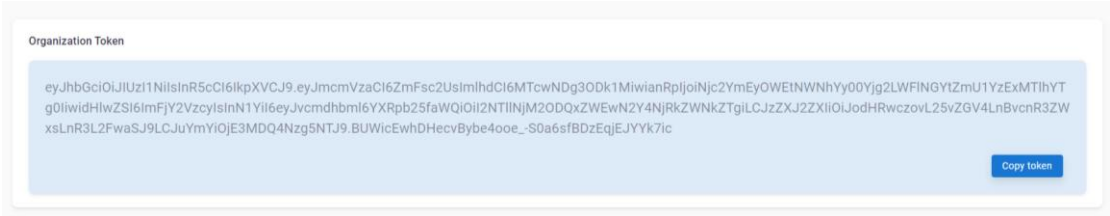


Figure 12. Organization Token

Chapter 5

Device

- 5.1 Device List
- 5.2 Deploy Container
- 5.3 Device Information
- 5.4 Remote Terminal
- 5.5 Docker Install
- 5.6 Agent Update
- 5.7 Device Container

5. Device

5.1. Device List

This page displays all managed devices and their connection status. Operations such as deploying containers, approving devices, updating agents, and dismissing devices can be performed from this page.

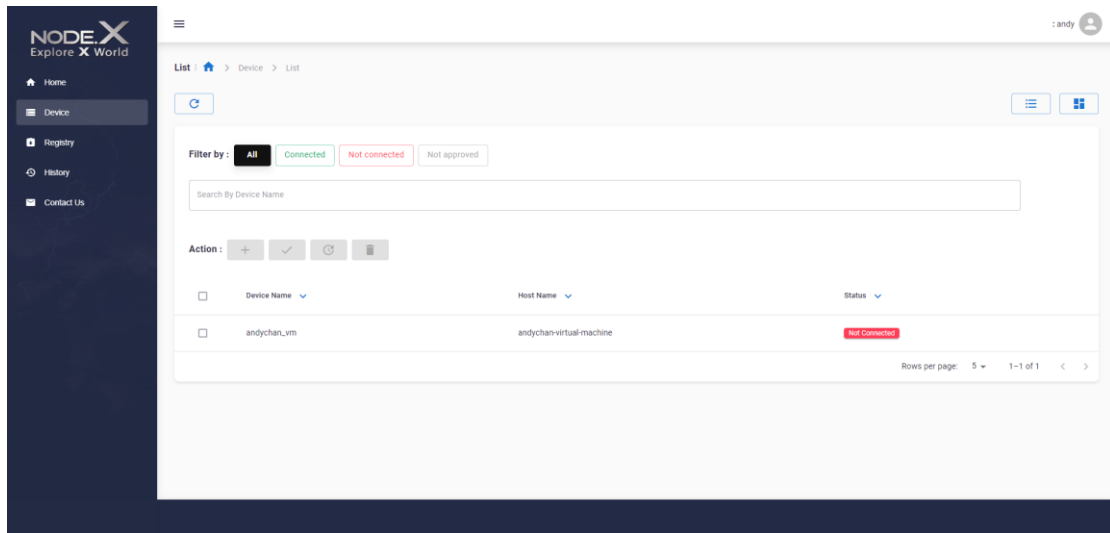


Figure 13. Device List

5.2. Deploy Container

Select the device for container deployment and click the "Deploy Container" button to access the Deploy Container page. Containers can be deployed using images from Docker hub or Custom registry.

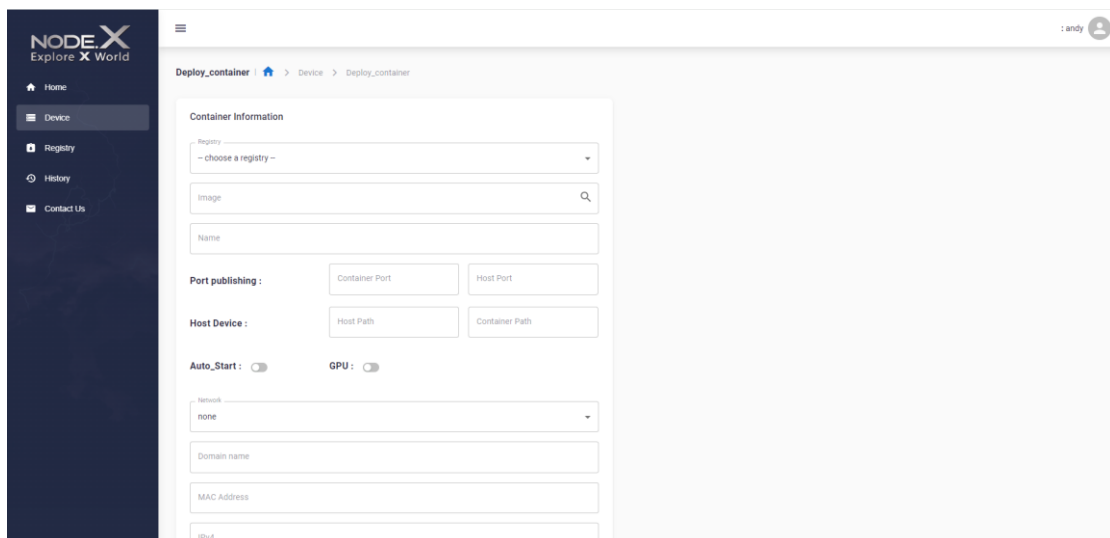


Figure 14. Deploy Container

5.3. Device Information

By clicking on each device, detailed information about the device is shown on the page.

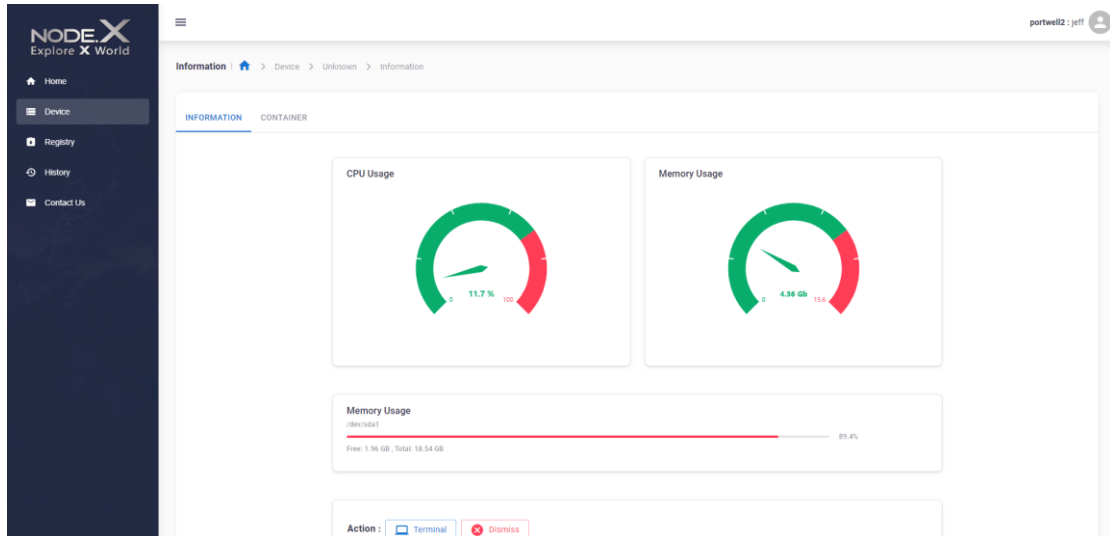


Figure 15. Device Information

5.4. Remote Terminal

Each managed device can be accessed by clicking the “Terminal” icon on the Device Information page. The command line interface can be operated in the same way as in the local terminal through the Server-Agent connection.

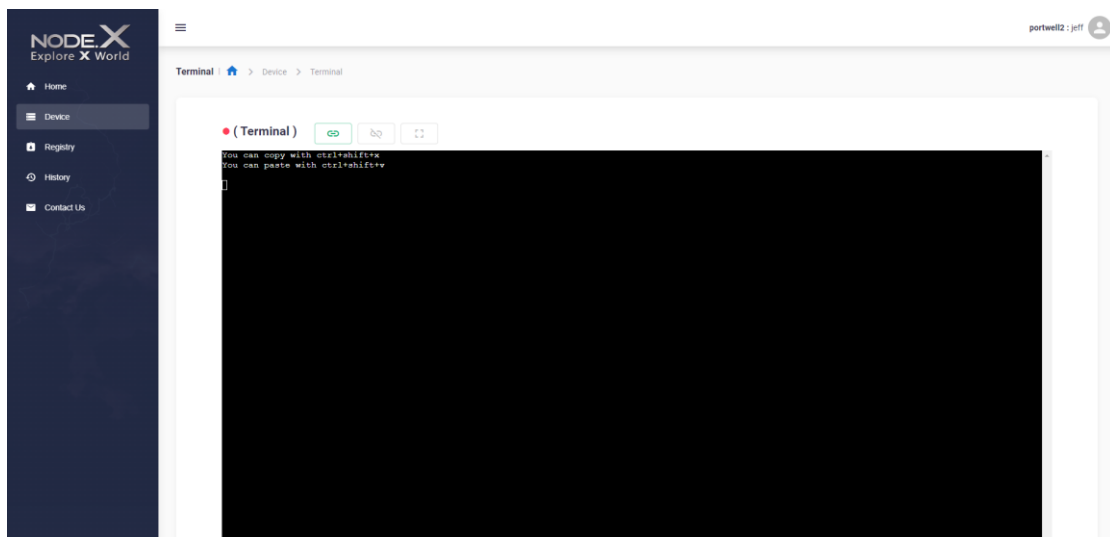


Figure 16. Remote Terminal

5.5. Docker Install

Click the "Docker Install" button to install Docker on the selected device.

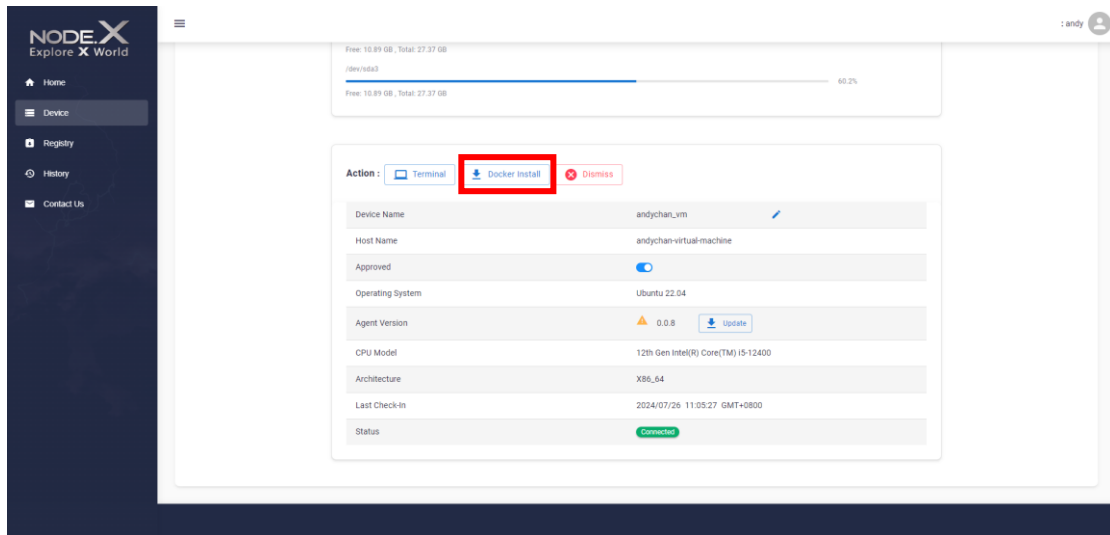


Figure 17. Docker Install

5.6. Agent Update

Click the "Agent Update" button to install the latest version of the Agent on the device.

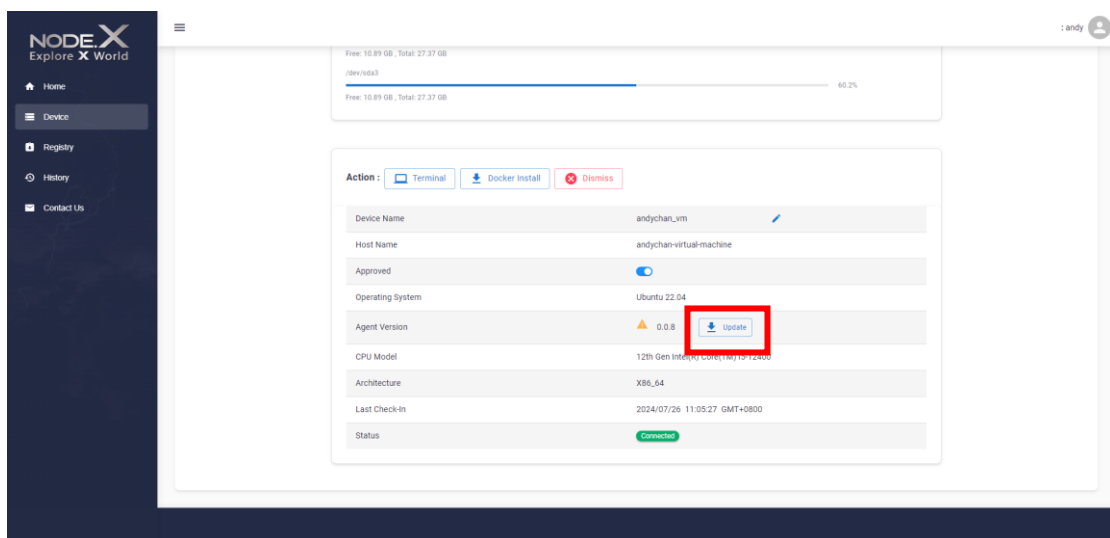


Figure 18. Agent Update

5.7. Device Container

This page displays all containers on the device. It also provides operations for managing the containers on the device, such as start, pause, stop, restart, and dismiss.

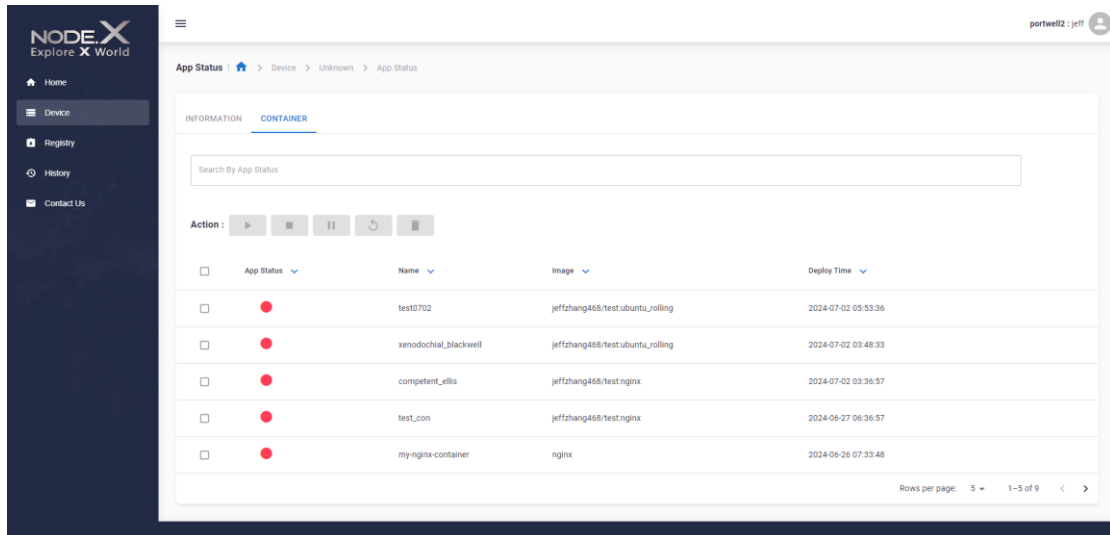


Figure 19. Device Container

Chapter 6

Registry

- 6.1 Registry List
- 6.2 Add Registry

6. Registry

6.1. Registry List

This page displays all registries and their information. Operations such as adding and deleting registries can be performed from this page.

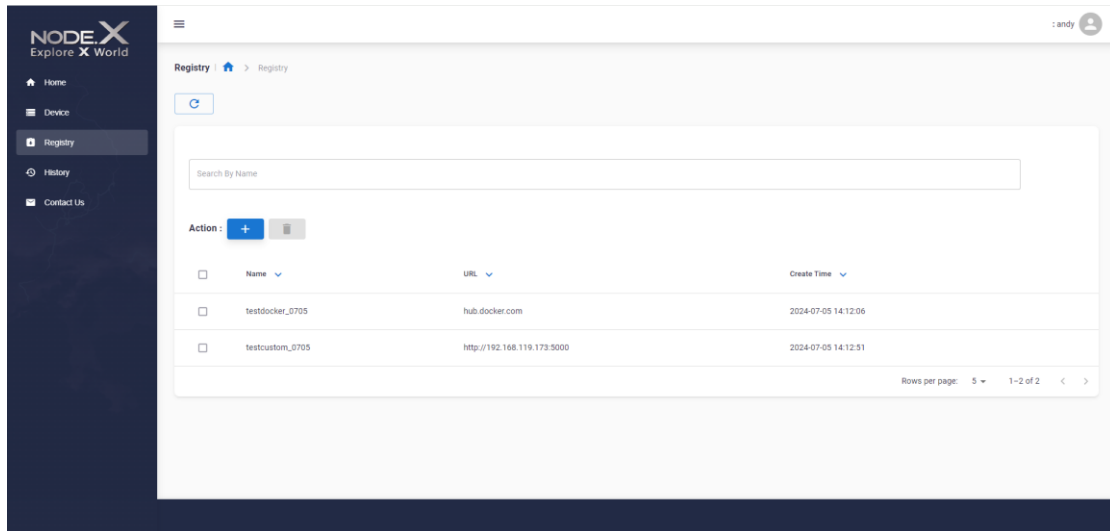


Figure 20. Registry

6.2. Add Registry

Clicking the "Add Registry" button navigates to the Add Registry page. From there, select either Docker Hub or Custom Registry to create a new registry.

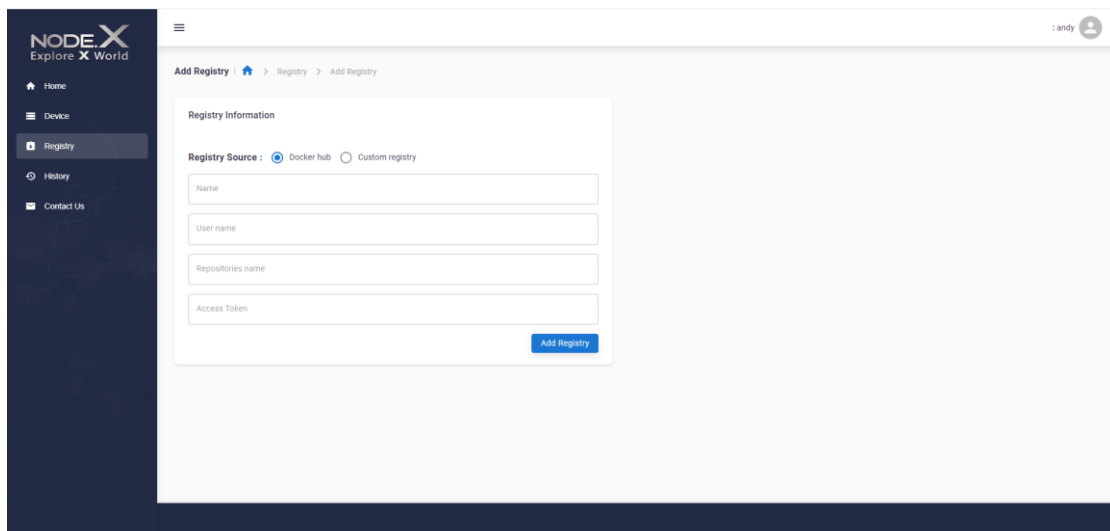


Figure 21. Add Registry by Selecting Docker hub

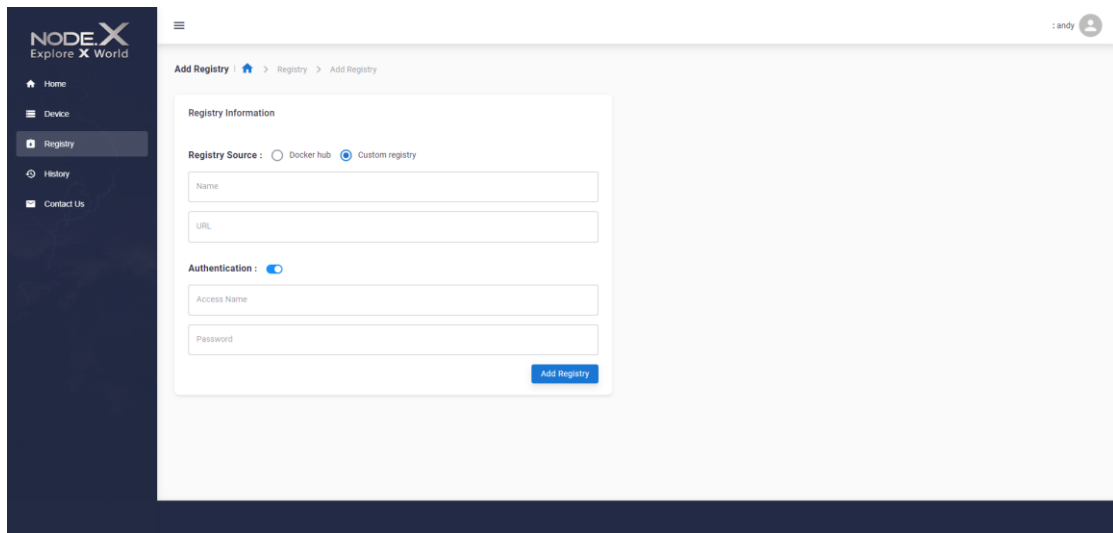


Figure 22. Add Registry by Selecting Custom Registry

Chapter 7

History

7. History

The History page displays events such as user login/logout, device connection status, and other system-related events.

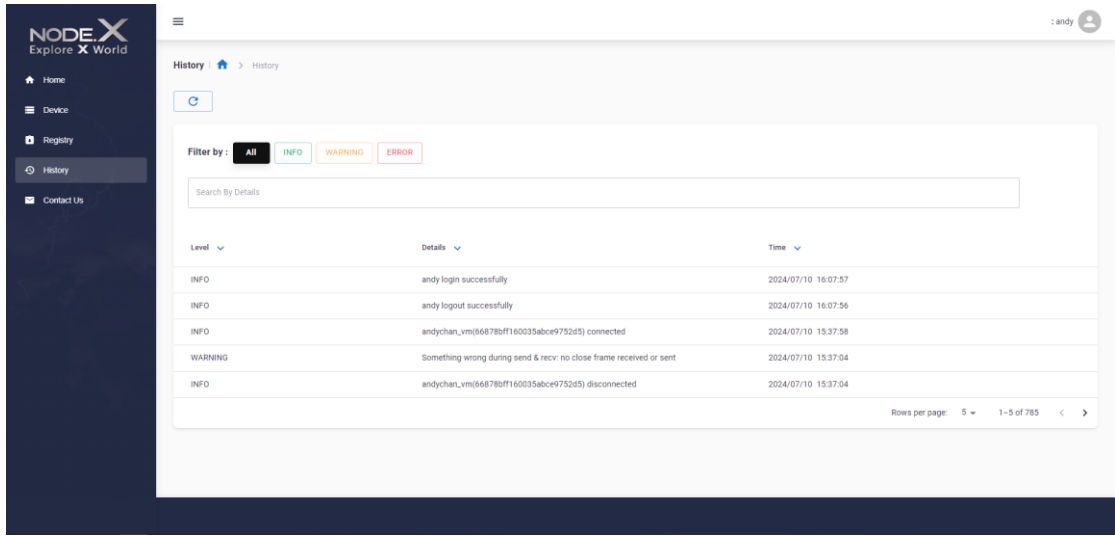


Figure 23. History

Chapter 8

Contact Us

8. Contact Us

If you have any questions, you can fill out the form on the "Contact Us" page and submit it for assistance.

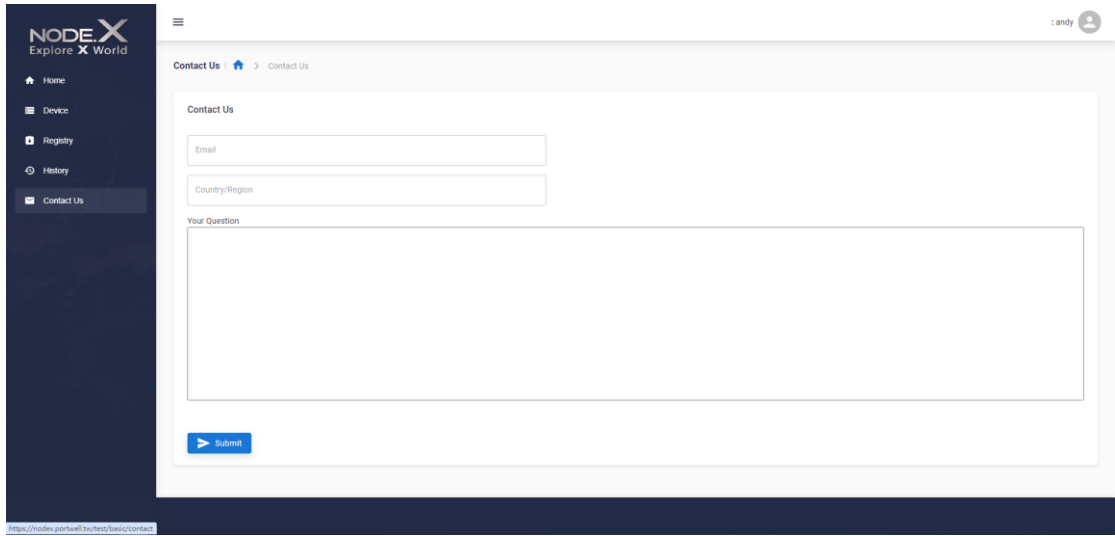


Figure 24. Contact Us



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