



# Unity Risk Indicator Docker Setup Guide

## Minium requirements:

OS:	Ubuntu 20.04 (LTS)
CPU:	4 x vCPU
Ram:	4GB Ram
Hard disk:	HDD 30GB

## Recommend requirements:

OS:	Ubuntu 24.04 (LTS)
CPU:	8 x vCPU
Ram:	8GB Ram
Hard disk:	SDD 100GB

After your server and network infrastructure are set up, please follow the 9 steps instructions to deploy the docker. More instructions to deploy the cybersecurity assessments and tools are built into the Unity Risk Indicator.

If you have any questions, please contact us at [Unity Risk Indicator Support](#)

## 1. Install docker environment:

1a) Run the following command to uninstall all conflicting packages:

```
for pkg in docker.io docker-doc docker-compose docker-compose-v2 podman-docker containerd runc; do sudo apt-get remove $pkg; done
```

```
# Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:
echo \
  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] \
  https://download.docker.com/linux/ubuntu \
  ${. /etc/os-release && echo "${UBUNTU_CODENAME:-$VERSION_CODENAME}"} stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
```

1b) Set up Docker's apt repository:

1c) Install the docker:

## 2) Prepare the installation folder:

2a) Put the unitysetup.sh script into above folder:

```
mkdir unity-package
```

```
sudo apt-get install wget docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
```

```
root@ubuntu-24-04-02:~/unity-package# pwd
/root/unity-package
root@ubuntu-24-04-02:~/unity-package# ll
total 16
drwxr-xr-x 2 root root 4096 Mar 12 17:50 ./
drwx----- 5 root root 4096 Mar 12 17:50 ../
-rw-r--r-- 1 root root 7633 Mar 12 17:50 unitysetup.sh
root@ubuntu-24-04-02:~/unity-package#
```

2b) Change [Your\_IP\_Address],[Company\_Name],[Company\_Website\_URL] to your own environment.

```
#!/bin/bash

# Start time
START_TIME=$(date +%s)

# Define Unity package root path (Update this path based on your actual directory)
UNITY_PACKAGE_ROOT_PATH="./unity-package"

# Set environment variables
IP_ADDRESS="http://[Your IP Address]"
# Example:
# IP_ADDRESS="http://192.168.33.33"

# Listening port, normally no need to change it
FRONTEND_PORT=8081
BACKEND_PORT=3006
MONGO_DB_PORT=27017

# Owner Company Detail, it will show in the footer of the web
COMPANY_NAME="[Company Name]"
COMPANY_URL="[Company Website URL]"
# Example:
# COMPANY_NAME="Netswitch Inc."
# COMPANY_URL="https://netswitch.net"
```

## 2b) Download the installation script and change the script to executable:

```
wget https://raw.githubusercontent.com/Netswitch-Inc/unity/refs/heads/master/unitysetup.sh
chmod 700 unitysetup.sh
```

```
root@ubuntu-24-04-02:~/unity-package# chmod 700 unitysetup.sh
root@ubuntu-24-04-02:~/unity-package# ll
total 16
drwxr-xr-x 2 root root 4096 Mar 12 17:50 ./
drwx----- 5 root root 4096 Mar 12 17:50 ../
-rwx----- 1 root root 7633 Mar 12 17:50 unitysetup.sh*
root@ubuntu-24-04-02:~/unity-package#
```

## 2c) Execute the script:

```
./unitysetup.sh
```

## 2d) The installation will start immediately; it will take around 15 mins:

```
root@ubuntu-24-04-02:~/unity-package# ./unitysetup.sh

=====
Checking if Git is installed...
=====

-- Git is not installed. Installing Git...
=====

Hit:1 http://hk.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://hk.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://hk.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://hk.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [919 kB]
Get:5 http://hk.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [206 kB]
Get:6 http://hk.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:7 http://hk.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [759 kB]
Get:8 http://hk.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [152 kB]
Get:9 http://hk.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:10 http://hk.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1041 kB]
Get:11 http://hk.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [261 kB]
Get:12 http://hk.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:13 http://hk.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [30.1 kB]
Get:14 http://hk.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5884 B]
Get:15 http://hk.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:16 http://hk.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:17 http://hk.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:18 http://hk.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [19.9 kB]
Get:19 http://hk.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:20 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:21 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [668 kB]
70% [21 Packages 386 kB/668 kB 58%]
```

## 2e) When the installation is completed, you'll see the Unity URL at the end of the script:

```
>> [Frontend 4/6] RUN npm install --loglevel=error 0.3s
>> [Frontend 5/6] RUN mkdir -p /usr/src/app/node_modules/.cache && chmod -R 777 /usr/src/app/node_modules/ 0.3s
>> [Frontend 6/6] COPY . . 0.3s
>> [Frontend] exporting to image 12.3s
>> -- exporting layers 12.3s
>> -- writing image sha256:8b1247ae2597ff524136ba076bfc224db0ba25804c8e1f50e823c98fe05354f 0.0s
>> -- naming to docker.io/library/unity-package-frontend 0.0s
>> [Frontend] resolving provenance for metadata file 0.0s
[+] Running 8/8
✔ backend Built 0.0s
✔ frontend Built 0.0s
✔ Network unity-package-react-express Created 0.1s
✔ Network unity-package-app-network Created 0.1s
✔ Volume "unity-package-mongodb-data" Created 0.0s
✔ Container mongodb Started 0.7s
✔ Container unity-package-backend-1 Started 1.0s
✔ Container unity-package-frontend-1 Started 1.4s

=====
Installation completed!
=====

Total execution time: 0 hours, 10 minutes, and 10 seconds.

=====
Access the Unity portal at http://[Your IP Address]:8001
=====

root@ubuntu-24-04-02:~/unity-package#
```

Code scanning alerts · Netswitch-Inc/unity

Netswitch-Inc /  
unity

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security 235

Code scanning - 3/16/2025

✓ All tools are working as expected

Tools 1 + Add tool

is:open branch:master

0 Open ✓ 236 Closed

Language Tool Branch Rule Severity Sort

Looking good!

No new code scanning alerts.

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*End of Documentation*

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<https://github.com/Netswitch-Inc/unity/security/code-scanning>

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<https://netswitch.net>

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