Installing Uptime Kuma with Internal Root Certificate

Ubuntu Server 24.04.3 Minimal Installation

This guide provides step-by-step instructions for installing Uptime Kuma using Docker on a fresh Ubuntu Server 24.04.3 minimal installation, with configuration for internal root certificate trust.

Step 1: Update System

Update the package list and upgrade existing packages:

```
sudo apt update
sudo apt upgrade -y
```

Step 2: Install Prerequisites

Install necessary packages for adding Docker's repository:

```
sudo apt install ca-certificates curl gnupg -y
```

Step 3: Add Docker's Official GPG Key

Configure the GPG key for Docker's package repository:

```
sudo install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/d
sudo chmod a+r /etc/apt/keyrings/docker.gpg
```

Step 4: Set Up Docker Repository

Add Docker's official repository to the system:

```
echo \
  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.
  $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

Step 5: Install Docker CE

Install Docker Community Edition and related components:

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

Step 6: Install Uptime Kuma

Create the directory and download the Docker Compose configuration:

```
mkdir uptime-kuma
cd uptime-kuma
curl -o compose.yaml https://raw.githubusercontent.com/louislam/uptime-kuma/master/compose.yaml
```

Step 7: Add Internal Root Certificate

Copy your internal root certificate to Ubuntu's trusted certificate store:

```
sudo cp internal-root-ca.crt /usr/local/share/ca-certificates/
sudo update-ca-certificates
```

Note: Replace 'internal-root-ca.crt' with your actual certificate filename.

Step 8: Configure Docker Compose for Certificate

Edit the compose.yaml file to mount the certificate and configure Node.js to trust it:

```
nano compose.yaml
```

Modify the file to match the following configuration:

```
services:
  uptime-kuma:
    image: louislam/uptime-kuma:2
    restart: unless-stopped
    volumes:
      - ./data:/app/data
      - /usr/local/share/ca-certificates/internal-root-ca.crt:/usr/local/share/ca-certificates/inte
    ports:
      - "3001:3001"
    environment:
      - NODE_EXTRA_CA_CERTS=/usr/local/share/ca-certificates/internal-root-ca.crt
```

Step 9: Start Uptime Kuma

Launch the Uptime Kuma container:

```
sudo docker compose up -d
```

Accessing Uptime Kuma

Once started, access the Uptime Kuma web interface at:

```
http://your-server-ip:3001
```

Useful Management Commands

```
Check container status:
sudo docker ps

View logs:
sudo docker compose logs -f

Stop Uptime Kuma:
sudo docker compose down

Restart after configuration changes:
sudo docker compose down
sudo docker compose up -d
```