



Prelude Network Automation

Documentation

Arolo Solutions

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Table of contents

1. Home	3
1.1 Welcome to Prelude CPE Manager Documentation	3
2. Install Guide	4
2.1 Install Prelude CPE Manager	4
2.1.1 Requirements	4
2.1.2 Validate registry authentication	4
2.1.3 Create the files	4
2.1.4 Start Prelude CPE Manager	5
2.1.5 Initial Configuration	6
3. Vendor Support	7
3.1 Prelude Vendor Support	7
3.1.1 TR069 - Onboarding	7
4. FAQ	8
4.1 Frequently Asked Question	8
5. Helpdesk	9
5.1 Helpdesk	9

1. Home

1.1 Welcome to Prelude CPE Manager Documentation

This documentation is related to Prelude CPE Manager v1.0.

Looking for **installation** or **upgrade** instructions for Prelude CPE Manager, have a look to the [Installation Guide](#)

If you are looking for an information that is not present in the documentation, reach out to your contact at Arolo Solutions so we add it.

2. Install Guide

2.1 Install Prelude CPE Manager

The following instructions describe how to deploy Prelude CPE manager using Docker.

Note

If you are installing the demo version of Prelude, you won't need the registry account

Before starting, make sure :

- your host is matching the [minimum requirements](#)
- docker and docker compose are installed ([Docker Installation Guide](#))
- you have your registry account credentials and namespace (if you don't have an Arolo registry account, [contact us](#))

You are ready to start !

The following guide is considering that you are installing Prelude in the `/opt/prelude-cm` folder.

2.1.1 Requirements

To run Prelude CPE Manager we recommend:

- 8 GB of memory
- 6 vCPU
- 100GB of disk

2.1.2 Validate registry authentication

Start by validating that you can connect to Arolo container registry.

```
docker login registry.arolo-solutions.com
```

Then, enter you username and password. If authentication failed, please [contact us](#).

2.1.3 Create the files

Create the following folders:

```
mkdir volumes
mkdir certs
```

First you need to create a `docker-compose.yml` file in your install directory.

```
services:
  db:
    image: postgres:17.6-alpine
    restart: unless-stopped
    env_file:
      - .env
    volumes:
      - ./volumes/db:/var/lib/postgresql/data
  web-ui:
    image: registry.arolo-solutions.com/<namespace>/prelude-cpe-manager:1.0
    restart: unless-stopped
    volumes:
      - ./pcm-config.json:/app/config.json
      - ./certs:/app/certs
```

```
ports:
  - 443:443
depends_on:
  - db
```

Then, create the `.env` file with your own password:

```
POSTGRES_PASSWORD=not-safe-k1nav12asdfvIA-23HRGWD!SCaxc-change-me
POSTGRES_USER=prelude
POSTGRES_DB=prelude_cpe_manager
```

Finally, create the config file `pcm-config.json` and replace the placeholder by your values:

```
{
  "debug": true,
  "timezone": "Europe/Paris",
  "gweb": {
    "routers": [
      {
        "name": "default",
        "address": "0.0.0.0:443",
        "default": true,
        "secure": {
          "certificate": "certs/<cert-file>.crt",
          "key": "certs/<cert-key-file>.key"
        }
      }
    ],
    "database": {
      "postgres": {
        "host": "db",
        "username": "prelude",
        "password": "<previously-defined-password>",
        "dbname": "prelude_cpe_manager",
        "port": 5432,
        "sslmode": false
      }
    },
    "key": "<32-chars-random-string>"
  },
  "app": {
    "external-url": "https://<public-ip>"
  }
}
```

2.1.4 Start Prelude CPE Manager

Pull all the containers images:

```
docker compose pull
```

Make sure, that all images have been pulled.

```
$ docker compose pull
[+] Pulling 2/2
✓ db Pulled
✓ prelude-cpe-manager Pulled
```

Run Prelude CPE Manager

```
docker compose up -d
```

Migrate the database models :

```
docker compose run --entrypoint="/app/prelude-cpe-manager migrate" web-ui
docker compose up -d --remove-orphans
```

Expected output :

NAME	PORTS	IMAGE	COMMAND	SERVICE	CREATED	
prelude-cm-db-1		postgres:17.6-alpine	"docker-entrypoint.s..."	db	1 minute ago	Up 1
minute	5432/tcp					
prelude-cm-web-ui-1		registry.arolo-solutions.com/<namespace>/prelude-cpe-manager:1.0	"/app/prelude-gatewa..."	web-ui	1 minute ago	Up 1
minute	0.0.0.0:443->443/tcp, [::]:443->443/tcp					


Create Prelude CPE Manager superuser:

```
docker compose exec -it web-ui /app/prelude-cpe-manager user create -u admin -e john.doe@arolo-solutions.com -p <password>
```

Open <https://host-fqdn/> in your web browser and try to log in with the superuser credentials.

2.1.5 Initial Configuration

Coming soon...

 **Success**

Congratulations, you are now ready to enjoy Prelude CPE Manager features !!

3. Vendor Support

3.1 Prelude Vendor Support

The following tables describe what is currently supported in Prelude CPE Manager per vendor/Operating System.

We are adding support per customer request so don't hesitate to contact us if you are interested in a Prelude CPE Manager feature but for a different vendor.

3.1.1 TR069 - Onboarding

Feature	Mikrotik	TR069 Compatible devices
Registration	✓	✓
Configuration	✓	✓
KeepAlive	✓	✓

4. FAQ

4.1 Frequently Asked Question

5. Helpdesk

5.1 Helpdesk

If you are encountering issues with Prelude CPE Manager, open a ticket at contact@arolo-solutions.com

www.arolo-solutions.com