



Scylla Installation and Configuration Document

SCYLLA CLI Version 1.1.0

www.scylla.ai

Table of contents

1. Introduction
2. Specification
3. CLI Installation
4. CLI Commands





Introduction

This document describes all the installation and configuration process for the Scylla starting from scratch. It covers all aspect of its installation and configuration including all various software needed.

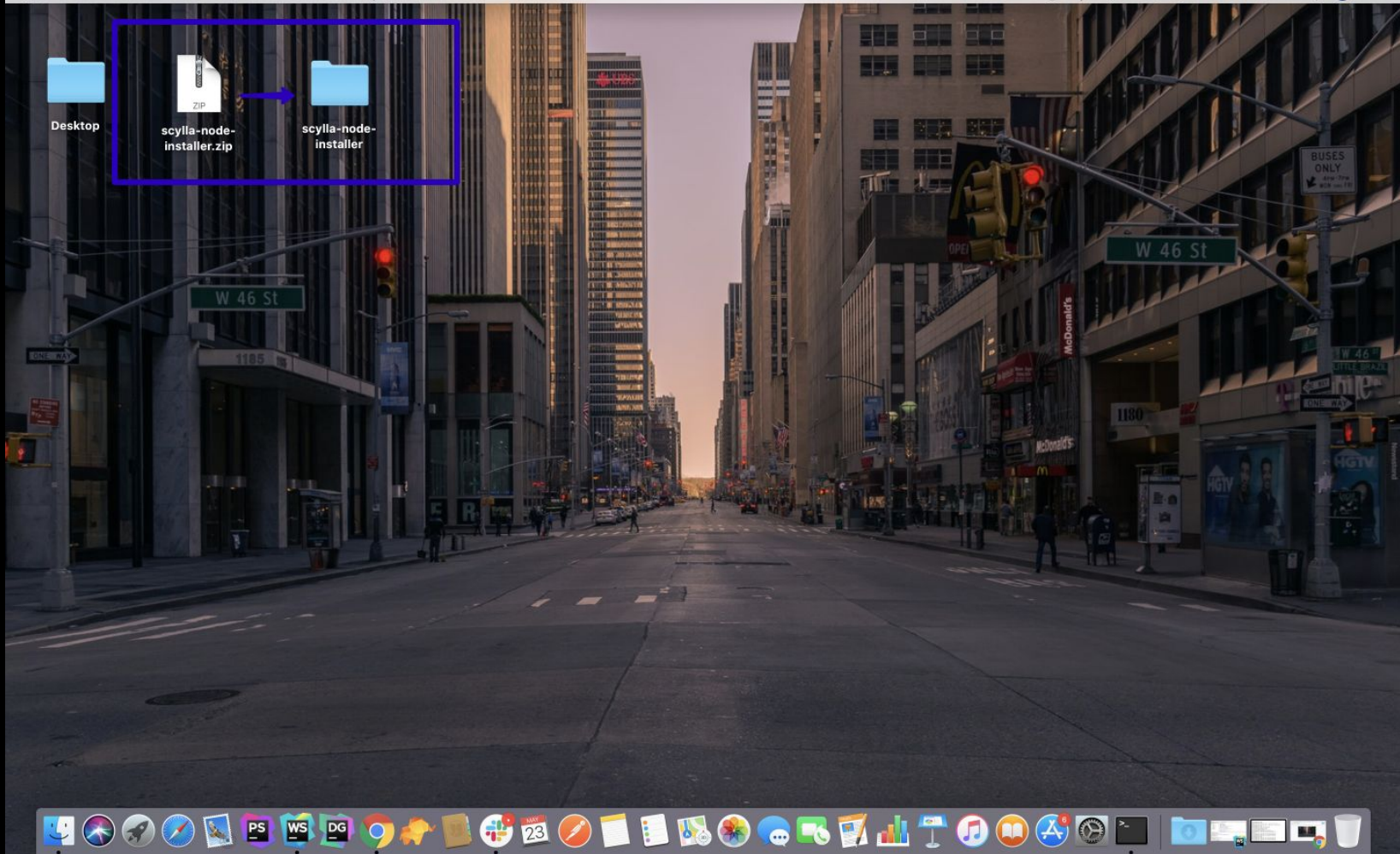
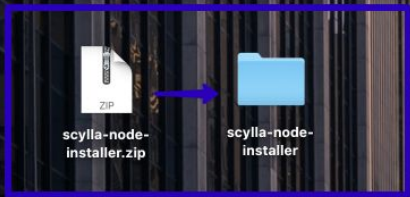


Specification

This document contains installation and configuration steps only for linux platform for version 18.04.

CLI Installation Package installation

Unzip Scylla CLI node package anywhere where it is convenient for you.



CLI Installation **Verify Node.js installation**

Check if you have NODE JS installed by typing this command

```
$ node --version
```



Desktop

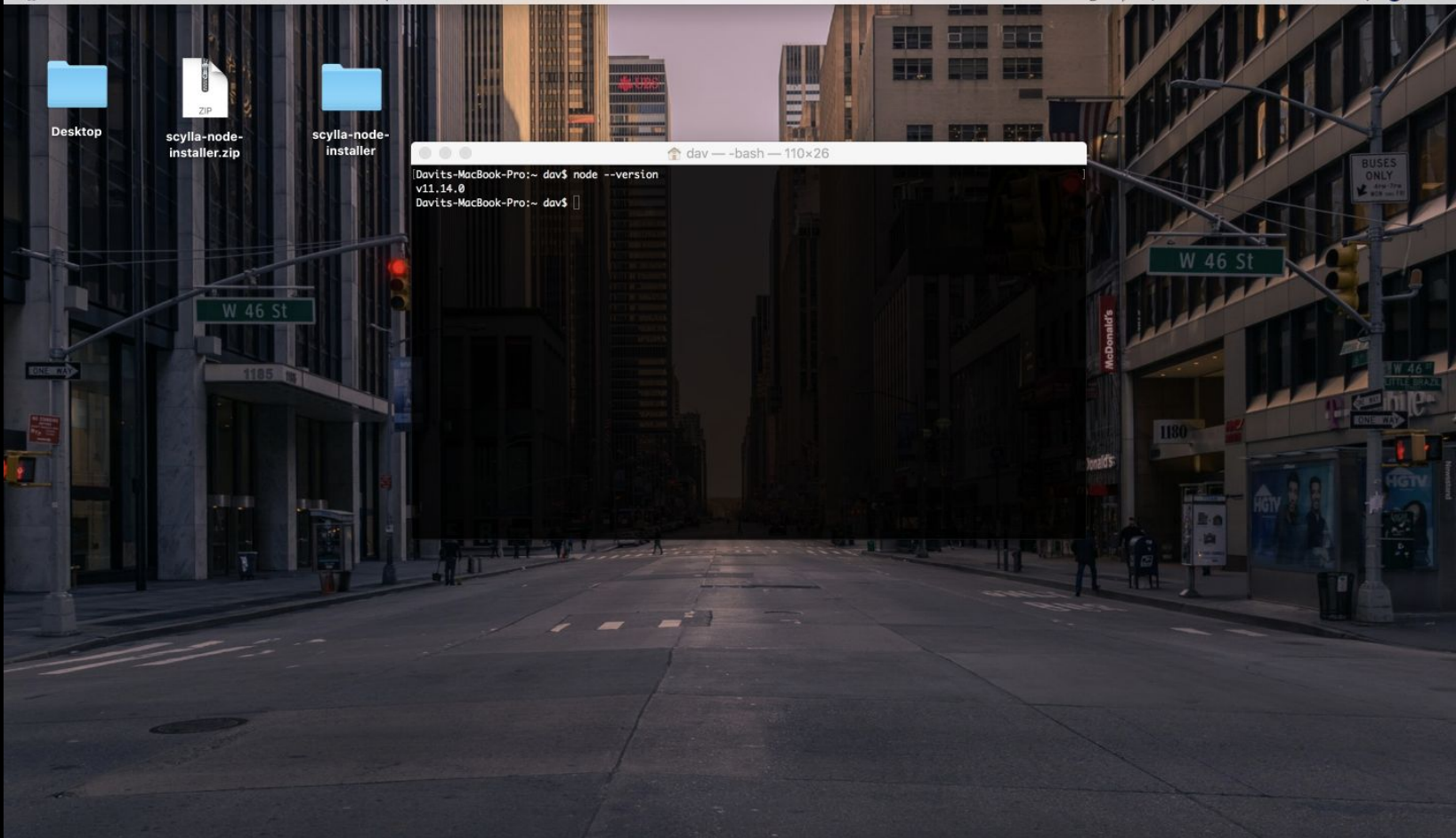


scylla-node-installer.zip



scylla-node-installer

```
dav ~ -bash -- 110x26  
[Davits-MacBook-Pro:~ dav$ node --version  
v11.14.0  
Davits-MacBook-Pro:~ dav$ ]
```



CLI Installation **Verify Node.js installation**

If you have installed node js it will return node version e.g. **v11.14.0** otherwise it will show that **command not found**. If it shows **command not found** don't panic just run below written commands on your terminal to install node js or just go to this link: <https://nodejs.org/en/download/> and download node installer.

```
$ sudo apt update
```

```
$ sudo apt install nodejs npm
```

```
$ node --version
```

Please make sure you have installed node js 11 or greater version.
If it less then 11 please upgrade node js version.

Alternatively, you can use nvm (node version manager).

CLI Installation **NVM** installation

Download and install package

```
$ curl -o-  
https://raw.githubusercontent.com/creationix/nvm/v0.33.0/install.sh | bash  
  
# Alternatively  
$ wget -qO-  
https://raw.githubusercontent.com/creationix/nvm/v0.33.11/install.sh | bash
```

Configuration

```
$ export NVM_DIR="$HOME/.nvm"  
$ [ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh"  
$ [ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion"
```

CLI Installation **NVM** installation

Verify your installation

```
$ nvm --version
```

Install Node.js

```
$ nvm install node # "node" is an alias for the latest version
```

Also you can use install other versions as well

```
$ nvm install 6.14.4 # or 10.10.0, 8.9.1, etc
```

NVM usage

```
$ nvm use node or nvm use version
```

You can find installation steps here <https://github.com/nvm-sh/nvm>

CLI Installation **Create a symlink**

Create a symlink.

```
$ cd scylla-node-installer
```

```
$ npm link
```



Desktop



scylla-node-installer.zip



scylla-node-installer

```
scylla-node-installer ---bash---110x26
Davits-MacBook-Pro:Desktop dav$ cd scylla-node-installer
Davits-MacBook-Pro:scylla-node-installer dav$ npm link

> diskusage@1.1.1 install /Users/dav/Desktop/scylla-node-installer/node_modules/diskusage
> node-gyp rebuild

CXX(target) Release/obj.target/diskusage/src/main.o
CXX(target) Release/obj.target/diskusage/src/diskusage_posix.o
SOLINK_MODULE(target) Release/diskusage.node
npm WARN scylla-cli@1.1.0 No repository field.

added 1 package from 1 contributor, removed 1 package and updated 59 packages in 15.892s
/usr/local/bin/scylla -> /usr/local/lib/node_modules/scylla-cli/cli.js
/usr/local/lib/node_modules/scylla-cli -> /Users/dav/Desktop/scylla-node-installer
Davits-MacBook-Pro:scylla-node-installer dav$
```



CLI Installation [Verify symlink](#)

Verify that you have successfully created a Scylla symlink.

```
$ scylla
```

This command will show the Scylla available commands list.
This is the same as Scylla help.



Desktop

```

scylla-node-
installer:~$ scylla [command] <options>
1.scylla help ..... show help menu for a command
2.scylla version ..... show cli version
3.scylla check ..... check server compatibility args[--cpuMinCoreCount --osPlatform --osVersion --diskType --diskSize --ramMin --graphics]
4.scylla install ..... install scylla
5.scylla uninstall ..... uninstall scylla
6.scylla start ..... start scylla instance      args [--d]
7.scylla config ..... config scylla devices

Davits-MacBook-Pro:scylla-node-installer dav$

```



CLI Commands

\$ **scylla** or **scylla help** shows scylla cli available commands.

\$ **scylla version** shows scylla cli current version.

\$ **scylla check** checks server compatibility.

\$ **scylla install** command to install.

\$ **scylla uninstall** to remove scylla from the system: yet not implemented.

\$ **scylla start** to start the scylla docker container.

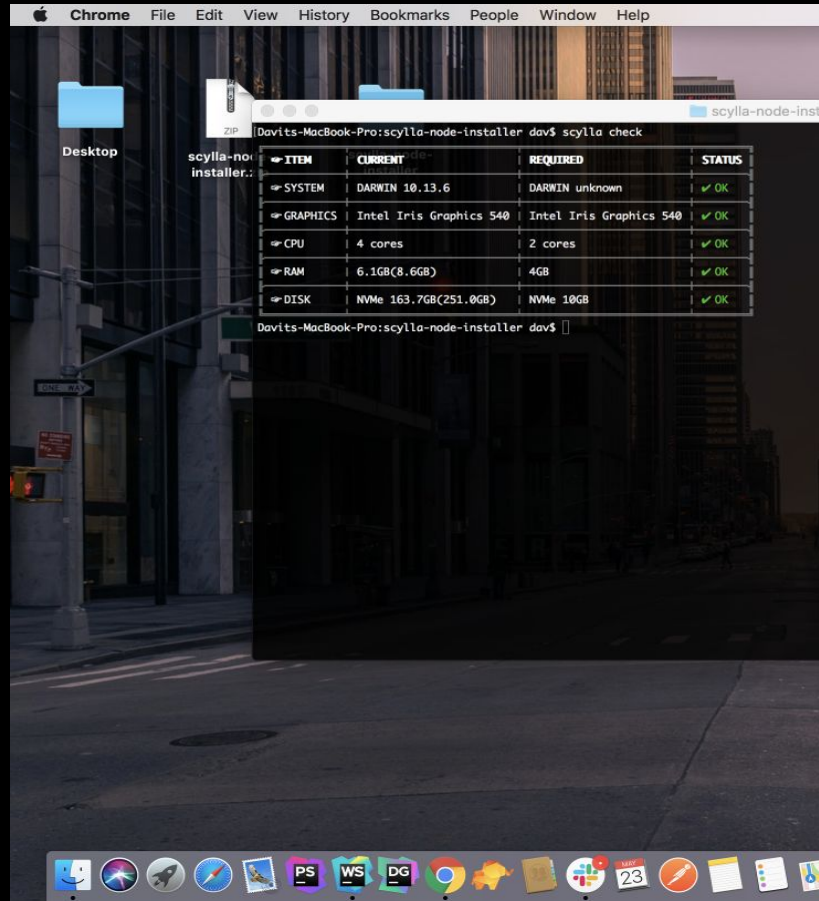
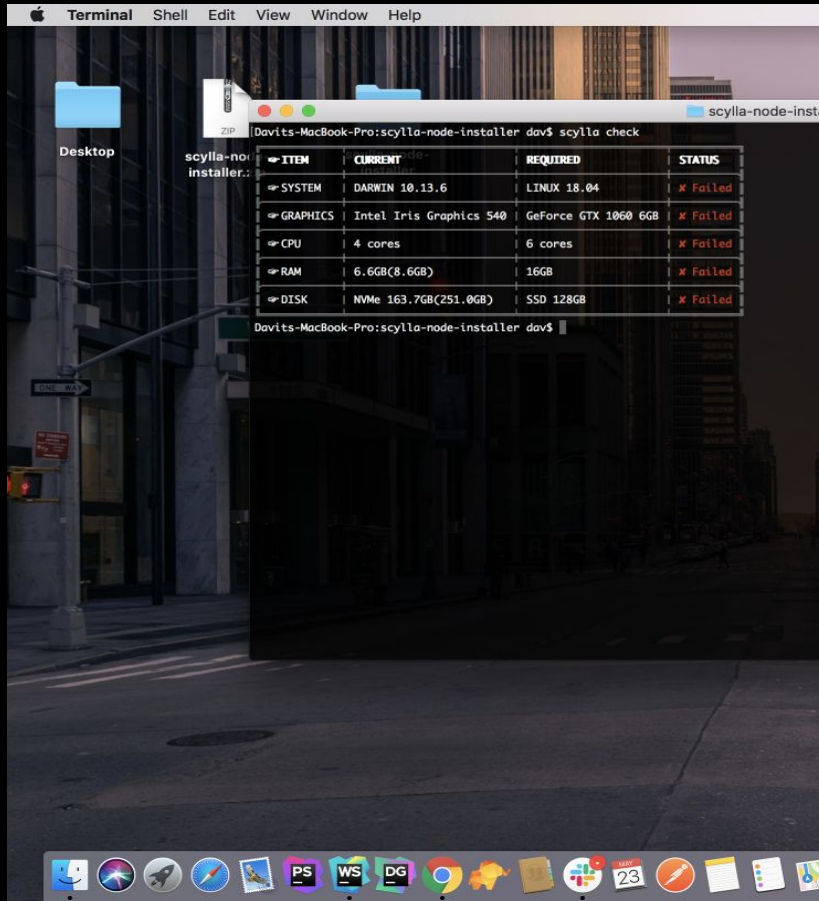
\$ **scylla stop** to stop the scylla docker container.

\$ **scylla config** to configure network cameras.

CLI Commands **Scylla check**

This command checks if the current platform is compatible with the Scylla requirements. There are 5 points which this command checks.

1. Checks the OS platform and the OS version
2. Checks the installed GRAPHICS and drivers compatibility
3. Checks CPU cores count
4. Checks RAM available space
5. Checks DISK type and available space



CLI Commands **Scylla install**

Before the installation process, this command checks the system compatibility and starts the installation if all requirements are correct.

1. Install Docker and Docker Cli

```
$ sudo apt-get update  
$ sudo apt-get install docker-ce docker-ce-cli containerd.io -y
```

2. Install Docker compose

```
$ sudo curl -L  
https://github.com/docker/compose/releases/download/1.21.2/docker-compose-`uname  
-s`-`uname -m` -o /usr/local/bin/docker-compose  
  
$ sudo chmod +x /usr/local/bin/docker-compose
```

CLI Commands **Scylla install**

3. Install Nvidia-390 kernel-source, driver and settings

```
$ sudo add-apt-repository ppa:graphics-drivers/ppa
$ sudo apt-get update
$ sudo apt-get install nvidia-kernel-source-390
$ sudo apt-get install nvidia-390 nvidia-settings
```

4. Install Nvidia-docker2

```
$ curl -s -L https://nvidia.github.io/nvidia-docker/gpgkey | sudo apt-key add -
$ distribution=$(. /etc/os-release;echo $ID$VERSION_ID)
$ curl -s -L https://nvidia.github.io/nvidia-docker/$distribution/nvidia-docker.list | sudo tee
/etc/apt/sources.list.d/nvidia-docker.list
$ sudo apt-get update
$ sudo apt-get install nvidia-docker2
```

CLI Commands **Scylla install**

5. Install AWS Cli and opens configuration inputs

```
$ sudo apt-get update
```

```
$ sudo apt-get -y install awscli
```

6. Install AWS Cli

```
$ sudo apt-get update
```

```
$ sudo apt-get -y install awscli
```

CLI Commands **Scylla install**

7. Configure AWS by entering right credentials

Console guide will walk you through the configuration process. For Access Key ID and Access Secret Key specify the values you got from the development team, for region specify eu-central-1 and Output Format specify json.

Note: Once finished the wizard will create a config file under `~/.aws` in a file named `credentials`

- 1)** Access key id
- 2)** Secret Access key
- 3)** Default region
- 4)** Output format

CLI Commands **Scylla install**

Please double check before approving.

After configuration it will try to login AWS ECR. If you logged in successfully you should see *Login succeeded*.



Desktop



scylla-node-installer.zip



scylla-node-

```
⌘ dav — python3.7 /usr/local/bin/aws configure — 147x26  
[Davits-MacBook-Pro:~ dav$ aws configure  
AWS Access Key ID [*****@L4A0]:  
AWS Secret Access Key [*****43Z-]:  
Default region name [eu-central-1]:  
Default output format [json]: ]
```


CLI Commands **Scylla install**

8. Create 2 folders and 2 files

Folders

```
$ sudo mkdir -p /etc/scylla' /etc/scylla
```

```
$ sudo mkdir -p /var/log/scylla' /var/log/scylla
```

Files

```
/etc/scylla/config.json
```

```
/etc/scylla/scylla_cfg.json
```

If all operations finished successfully you should see this message:
Scylla has been successfully installed

CLI Commands `Scylla config`

Use this command to configure network cameras.

After execution this command it checks network devices and shows checkbox list.



Desktop



scylla-node-installer.zip



scylla-node-

```
⌘ dav — node /usr/local/bin/scylla config — 147x26  
[Davits-MacBook-Pro:~ dav$ scylla config  
? Please choose devices (no more than 8) (Press <space> to select, <⌘> to toggle all, <⇧> to invert selection)  
> hd(HW0100302) http://192.168.100.9:2000/onvif/device_service  
○ EZIP(IPC-T1A20) http://192.168.100.7/onvif/device_service
```



CLI Commands `Scylla config`

If you have connected cameras on the list it will show filled checkbox circle otherwise bordered checkbox circle. You can choose all devices by clicking a button on your keyboard. If you want to remove selections just click on the I button. If you want to choose specific camera, press click down or up buttons and press space button. If you choose all devices click on the enter. It will open user and pass interactive inputs for selected cameras.



Desktop



scylla-node-installer.zip



scylla-node-

```
⌘ dav — node /usr/local/bin/scylla config — 147x26
[Davits-MacBook-Pro:~ dav$ scylla config
? Please choose devices (no more than 8) (Press <space> to select, <⌘> to toggle all, <⌥> to invert selection)hd(HW0100302) http://192.168.100.9:20
00/onvif/device_service
[? User for the device hd pp
[? Pass for the device hd [hidden] [input is hidden]
```



CLI Commands `Scylla config`

Once you entered user and pass wait until it connects to the camera. If connection fails it will open confirmation dialog to try again or skip a camera installation.



Desktop



scylla-node-installer.zip



scylla-node-

```

dav — node /usr/local/bin/scylla config — 147x26
[Davits-MacBook-Pro:~ dav$ scylla config
? Please choose devices (no more than 8) EZIP(IPC-T1A20) http://192.168.100.7/onvif/device_service
? User for the device EZIP wrong
? Pass for the device EZIP [hidden]
Please wait...
Error: Failed to initialize the device: Error: 400 Bad Request - Sender not Authorized. Invalid username or password! You still have 0 attempt(s).
? Try again? (Y/n) █

```

CLI Commands `Scylla config`

After installation this command changes `/etc/scylla/config.json` file cameras property and adds installed cameras.

For each cameras it adds properties like this:

```
{
  "name": "hd",
  "type": "rtsp",
  "url": "rtsp://user:pass@192.168.100.9:554/av0_0",
  "id": "urn:uuid:00130201-7737-8301-ac36-001302017737"
}
```


CLI Commands **Scylla config**

If you want to add cameras manually open **/etc/scylla/config.json** file, find **cameras** property and add camera after end of cameras array. Camera configuration requires 4 properties that you should confirm. Camera name, camera type e.g rtsp, url (udp stream url) and device id (device urn). Scylla cli checks connected cameras with id parameter so it is encouraged to add this parameter if you have it.

Config.json by default includes 3 default cameras. Please **DO NOT REMOVE** first one. It is required for scylla. Other 2 options are not mandatory they are just an example you can remove or replace them.

There is limitation while installing cameras. **You can not choose more than 8 cameras.**



Address:

Scylla, Inc.

Albert Stepanyan

Chief Executive Officer

4500 Park Granada Suite 202, Calabasas CA 91302

Phone number:

+1(747)228-3878

Email:

info@scylla.ai