

Documentations

<https://semaphoreui.com/>

<https://docs.semaphore.io/getting-started/install>

<https://docs.semaphore.io/CE/getting-started/install>

<https://docs.semaphore.io/CE/getting-started/install-single-machine>

<https://semaphoreui.com/docs/administration-guide/installation/package-manager>

Install and Configure the Database

Install MariaDB

```
[corporealsoul@corporealsoul-server 11:04:11 ~]$ sudo dnf install -y mariadb-server
[corporealsoul@corporealsoul-server 13:18:54 ~]$ sudo systemctl enable --now mariadb.service
[corporealsoul@corporealsoul-server 10:10:09 ~]$ sudo systemctl status mariadb.service
```

Secure and Setup the DB

```
[corporealsoul@corporealsoul-server 11:04:11 ~]$ sudo mysql -u root -e "CREATE DATABASE semaphore;"
[corporealsoul@corporealsoul-server 11:06:10 ~]$ sudo mysql -u root -e "CREATE USER
'semaphore'@'localhost' IDENTIFIED BY 'GRt?J0:4tRFm6';"
[corporealsoul@corporealsoul-server 11:06:28 ~]$ sudo mysql -u root -e "GRANT ALL PRIVILEGES ON
semaphore.* TO 'semaphore'@'localhost';"
[corporealsoul@corporealsoul-server 11:06:44 ~]$ sudo mysql -u root -e "FLUSH PRIVILEGES;"
```

Install Semaphore UI

Download the latest RPM

```
[corporealsoul@corporealsoul-server 11:06:50 ~]$ LATEST_VERSION=$(curl -s
https://api.github.com/repos/semaphoreui/semaphore/releases/latest | grep '"tag_name":' | cut -d '"' -f 4
| sed 's/^v//')
[corporealsoul@corporealsoul-server 11:07:53 ~]$ wget
https://github.com/semaphoreui/semaphore/releases/download/v${LATEST_VERSION}/semaphore_${LATEST_VERSION}
_linux_amd64.rpm
[corporealsoul@corporealsoul-server 10:13:43 ~]$ ls -ltr
semaphore_2.16.51_linux_amd64.rpm
```

Or,

<https://github.com/semaphoreui/semaphore/releases/> (Assets Section)

https://semaphoreui.com/install/binary/2_16/install (Download Section)

```
[corporealsoul@corporealsoul-server 10:25:17 ~]$ curl -o semaphore_2.16.51_linux_amd64.rpm -L
https://github.com/semaphoreui/semaphore/releases/download/v2.16.51/semaphore_2.16.51_linux_amd64.rpm

[corporealsoul@corporealsoul-server 10:17:38 ~]$ ls -ltr

semaphore_2.16.51_linux_amd64.rpm
```

Install the package

```
[corporealsoul@corporealsoul-server 11:08:16 ~]$ sudo dnf install -y
./semaphore_${LATEST_VERSION}_linux_amd64.rpm
```

Or,

```
[corporealsoul@corporealsoul-server 11:01:19 ~]$ sudo dnf install -y ./semaphore_2.16.51_linux_amd64.rpm
```

Run the Setup Wizard

```
[corporealsoul@corporealsoul-server 11:03:04 ~]$ semaphore setup
```

```
What database to use                                     :
db Hostname (default 127.0.0.1:3306)                    :
db User (default root)                                  : semaphore
db Password                                              : GRt?J0:4tRFm6
db Name (default semaphore)                             : semaphore
Playbook path (default /tmp/semaphore)                  :
/home/corporealsoul/corporealsoul-Research-LAB/YEAR2026/Ansible/playbooks
Public URL (optional, example: https://example.com/semaphore) :
Enable email alerts? (yes/no) (default no)              :
Enable telegram alerts? (yes/no) (default no)           :
Enable slack alerts? (yes/no) (default no)              :
Enable Rocket.Chat alerts? (yes/no) (default no)        :
Enable Microsoft Team Channel alerts? (yes/no) (default no) :
Enable LDAP authentication? (yes/no) (default no)       :
Config output directory (default /home/corporealsoul)   :
/home/corporealsoul/corporealsoul-Research-LAB/YEAR2026/Semaphore/config-output

Username                                                 : corporealsoul
Email                                                    : uniqs.anup@gmail.com
Your name                                                : Anup Kumar Mondal
Password                                                 : GRt?J0:4tRFm6
```

Configure the Firewall

```
[corporealsoul@corporealsoul-server 11:13:32 ~]$ sudo firewall-cmd --permanent --add-port=3000/tcp
[corporealsoul@corporealsoul-server 11:20:55 ~]$ sudo firewall-cmd --reload
```

Run server

```
[corporealsoul@corporealsoul-server 11:20:55 ~]$ semaphore server --config=./config.json
http://192.168.56.4:3000/
```

Create a Systemd Service (Autostart)

```
[corporealsoul@corporealsoul-server 11:21:00 ~]$ sudo nano /etc/systemd/system/semaphore.service
```

[Unit]

Description=Semaphore Ansible UI

After=network.target mariadb.service

[Service]

Type=simple

User=corporealsoul

Point this to the config file generated during 'setup'

ExecStart=/usr/bin/semaphore server --config /home/corporealsoul/corporealsoul-Research-LAB/YEAR2026/Semaphore/config-output/config.json

Restart=always

[Install]

WantedBy=multi-user.target

```
[corporealsoul@corporealsoul-server 11:23:13 ~]$ sudo systemctl daemon-reload
```

```
[corporealsoul@corporealsoul-server 11:23:37 ~]$ sudo systemctl enable --now semaphore
```

```
[corporealsoul@corporealsoul-server 11:12:35 ~]$ sudo systemctl status semaphore.service
```

Access the UI

<http://192.168.56.4:3000/>

Run a Playbook

Edit Repository,

Name : ansible-repo
URL / Path : /home/corporealsoul/corporealsoul-Research-LAB/YEAR2026/Ansible

Inventory

Name : ansible-inventory
Type : File
Path to Inventory File : contrib/inventory/hosts

Edit Template 'Ansible Playbook'

Name : gather_facts
Path to Playbook File : playbooks/system-and-requirements/gather_facts.yml
Inventory : ansible-inventory
Repository : ansible-repositories

CLI args : --ssh-common-args='-o ControlPath=/tmp/ansible-ssh-%h-%p-%r'