



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'
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