

Ansible Guides

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Installing the Semaphore UI

[Semaphore UI Documentation semaphoreui/semaphore](#)

Installation

[GitHub Releases](#)

```
sudo apt install ansible python3-jmespath yq
```

```
sudo wget  
"https://github.com/semaphoreui/semaphore/releases/download/v2.19.12/semaphore_2.19.12_linux_amd64.deb" -O "/usr/local/src/semaphore_2.19.12_linux_amd64.deb"  
sudo apt install "/usr/local/src/semaphore_2.19.12_linux_amd64.deb"
```

```
sudo useradd --create-home -d "/var/lib/semaphoreui" --shell  
"/usr/sbin/nologin" --system semaphoreui  
sudo chmod 0750 "/var/lib/semaphoreui"
```

```
sudo -u semaphoreui semaphore setup
```

```
sudo chmod 0640 "/var/lib/semaphoreui/config.json"  
sudo chmod 0600 "/var/lib/semaphoreui/database.sqlite"
```

```
sudo tee "/etc/systemd/system/semaphoreui.service" >/dev/null <<'EOF'  
[Unit]  
Description=Semaphore UI  
Documentation=https://semaphoreui.com/docs  
Wants=network-online.target  
After=network-online.target  
ConditionPathExists=/usr/bin/semaphoreui  
ConditionPathExists=/var/lib/semaphoreui/config.json  
  
[Service]  
ExecStart=/usr/bin/semaphore server --config=/var/lib/semaphoreui/config.json  
ExecReload=/bin/kill -HUP $MAINPID  
Restart=always  
RestartSec=10s  
User=semaphore  
Group=semaphore
```

```
SyslogIdentifier=semaphoreui
```

```
[Install]
```

```
WantedBy=multi-user.target
```

```
EOF
```

```
sudo systemctl daemon-reload
```

```
sudo systemctl enable --now semaphoreui
```

Configure a NGINX Reverse-Proxy

```
server {
    listen 443 ssl;
    http2 on;

    add_header Strict-Transport-Security "max-age=63072000" always;
    add_header X-Content-Type-Options "nosniff";
    add_header X-Frame-Options "SAMEORIGIN";

    # Required to avoid HTTP 411: see Issue #1486.
    # (https://github.com/docker/docker/issues/1486)
    chunked_transfer_encoding on;

    location / {
        proxy_pass http://127.0.0.1:3000/;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;

        proxy_buffering off;
        proxy_request_buffering off;
    }

    location /api/ws {
        proxy_pass http://127.0.0.1:3000/api/ws;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
        proxy_set_header Origin "";
    }
}
```

Create GitLab Access Token

`read_api` `read_repository`

Setup Agent on Client Node

```
groupadd -g 2042 ansible-agent
useradd --create-home --home /var/lib/ansible --shell /bin/bash -u 2042 -g 2042
ansible-agent
passwd -l ansible-agent
mkdir -p /var/lib/ansible/.ssh
touch /var/lib/ansible/.ssh/authorized_keys
chown ansible-agent /var/lib/ansible/.ssh/authorized_keys
chmod 0600 /var/lib/ansible/.ssh/authorized_keys
mkdir -p /var/lib/ansible/.ansible
chown ansible-agent /var/lib/ansible/.ansible
```

```
sudo touch /etc/sudoers.d/ansible-agent
sudo chmod 0440 /etc/sudoers.d/ansible-agent
sudo cat > /etc/sudoers.d/ansible-agent <<'EOF'
ansible-agent ALL=(ALL) NOPASSWD: ALL
EOF
```

Ansible Authoring Guide

EditorConfig Code Style

[EditorConfig Guide](#)

```
[{*.yaml,*.yml}]  
indent_size = 2  
#indent_style = space
```