

# Ansible GUI

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Ansible?? Ansible ???  
Michael DeHaan ?????? 2015 ??Red Hat???????????????? Unix???Microsoft Windows ?????

## Links

- Ansible Community
  - [AWX for Docker](#)
  - [Documentation](#)
- [How to Test Ansible Roles with Molecule and Docker](#)
- Red Hat Ansible Automation Platform
  - [Download](#)
  - [Trial License](#)
  - [Ansible Lightspeed with Watson Code Assistant](#)  
?? IBM Watson Code Assistant ??? playbooks
  - [Setting up VSCoCe and Ansible Lightspeed on Ubuntu 22.04](#)
- Ansible Galaxy

# Commands

```
# [] lookup [] plugins
# Usage:
# motd_value: "{ { lookup('file', '/etc/motd') } }"
ansible-doc -l -t lookup
```

# Ansible Semaphore

## Links

- <https://www.ansible-semaphore.com/>
- [Github](#)
- [Docs](#)

- [Video] [This web UI for Ansible is so damn useful!](#)

## Install with Docker

Create the directory

```
mkdir playbooks
mkdir config
chown 1001:1001 config
```

docker-compose.yml:

```
---
volumes:
  semaphore-mysql:
    driver: local
services:
  mysql:
    image: mysql:8.0
    hostname: mysql
    volumes:
      - semaphore-mysql:/var/lib/mysql
    environment:
      - MYSQL_RANDOM_ROOT_PASSWORD=yes
      - MYSQL_DATABASE=semaphore
      - MYSQL_USER=semaphore
      - MYSQL_PASSWORD=secret-password # change!
    restart: unless-stopped
  semaphore:
    container_name: ansiblesemaphore
    image: semaphoreui/semaphore:v2.8.90
    user: 1001:1001 # change if needed
    ports:
      - 3000:3000
    environment:
      - SEMAPHORE_DB_USER=semaphore
      - SEMAPHORE_DB_PASS=secret-password # change!
      - SEMAPHORE_DB_HOST=mysql
      - SEMAPHORE_DB_PORT=3306
      - SEMAPHORE_DB_DIALECT=mysql
```

```

- SEMAPHORE_DB=semaphore
- SEMAPHORE_ADMIN_PASSWORD=secret-admin-password # change!
- SEMAPHORE_ADMIN_NAME=admin
- SEMAPHORE_ADMIN_EMAIL=admin@localhost
- SEMAPHORE_ADMIN=admin
- SEMAPHORE_ACCESS_KEY_ENCRYPTION= # add to your access key encryption !
- ANSIBLE_HOST_KEY_CHECKING=false # (optional) change to true if you want to enable host key checking
volumes:
- ./inventory:/inventory:ro
- ./authorized-keys:/authorized-keys:ro
- ./config:/etc/semaphore:rw
- ./playbooks:/playbooks:ro
restart: unless-stopped
depends_on:
- mysql

```

You must specify following confidential variables:

- `MYSQL_PASSWORD` and `SEMAPHORE_DB_PASS` — password for the MySQL user.
- `SEMAPHORE_ADMIN_PASSWORD` — password for the Semaphore's admin user.
- `SEMAPHORE_ACCESS_KEY_ENCRYPTION` — key for encrypting access keys in database. It must be generated by using the following command: `head -c32 /dev/urandom | base64`.

## Get Started

1. Create New Project
2. New Keys:
  - Name1: None
  - Type1: None
  - -----
  - Name2: ssh\_alang
  - Type2: SSH Key
  - Username2: alang
  - Private key2: <Key-String>
  - -----
  - Name3: sudo\_alang
  - Type3: Login with password
  - Login3: alang
  - Password3: <password>
3. New Repository:
  - Name: Local
  - Path: /playbooks
  - Access Key: None

# AWX

## RedHat 8.7

?????

```
dnf update
reboot
dnf install ansible-core openssl-libs
dnf group install "Development Tools"
dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
dnf install python39-setuptools_scm
```

## AWX

```
git clone -b 22.3.0 https://github.com/ansible/awx.git
cd awx

# [REDACTED]
#vi tools/docker-compose/inventory

make docker-compose-build
cp Makefile{.,.orig}
sed -i 's/^(DOCKER_COMPOSE ?=\\).*/\1 docker compose/' Makefile
make docker-compose
```

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AWX Web UI: <https://server.ip.adress:8043/>

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```
“ <% if (process.env.NODE_ENV === 'production') { %> <% } %> <% if
(process.env.NODE_ENV === 'production') { %> <% } else { %> <% } %>
<% if (process.env.NODE_ENV === 'production') { %>
```

Clean and build the UI

```
docker exec tools_awx_1 make clean-ui ui-devel
```

??????????

“ Creating an optimized production build...  
Browserslist: caniuse-lite is outdated. Please run:  
npx update-browserslist-db@latest  
Why you should do it regularly: <https://github.com/browserslist/update-db#readme>

Ctrl + C ??

```
docker exec -it tools_awx_1 bash  
> cd /awx_devel/awx/ui  
> npx update-browserslist-db@latest  
> exit
```

?????

```
docker exec tools_awx_1 make clean-ui ui-devel
```

????????????????

“ The project was built assuming it is hosted at ./.  
You can control this with the homepage field in your package.json.

The build folder is ready to be deployed.

Find out more about deployment here:

<https://cra.link/deployment>

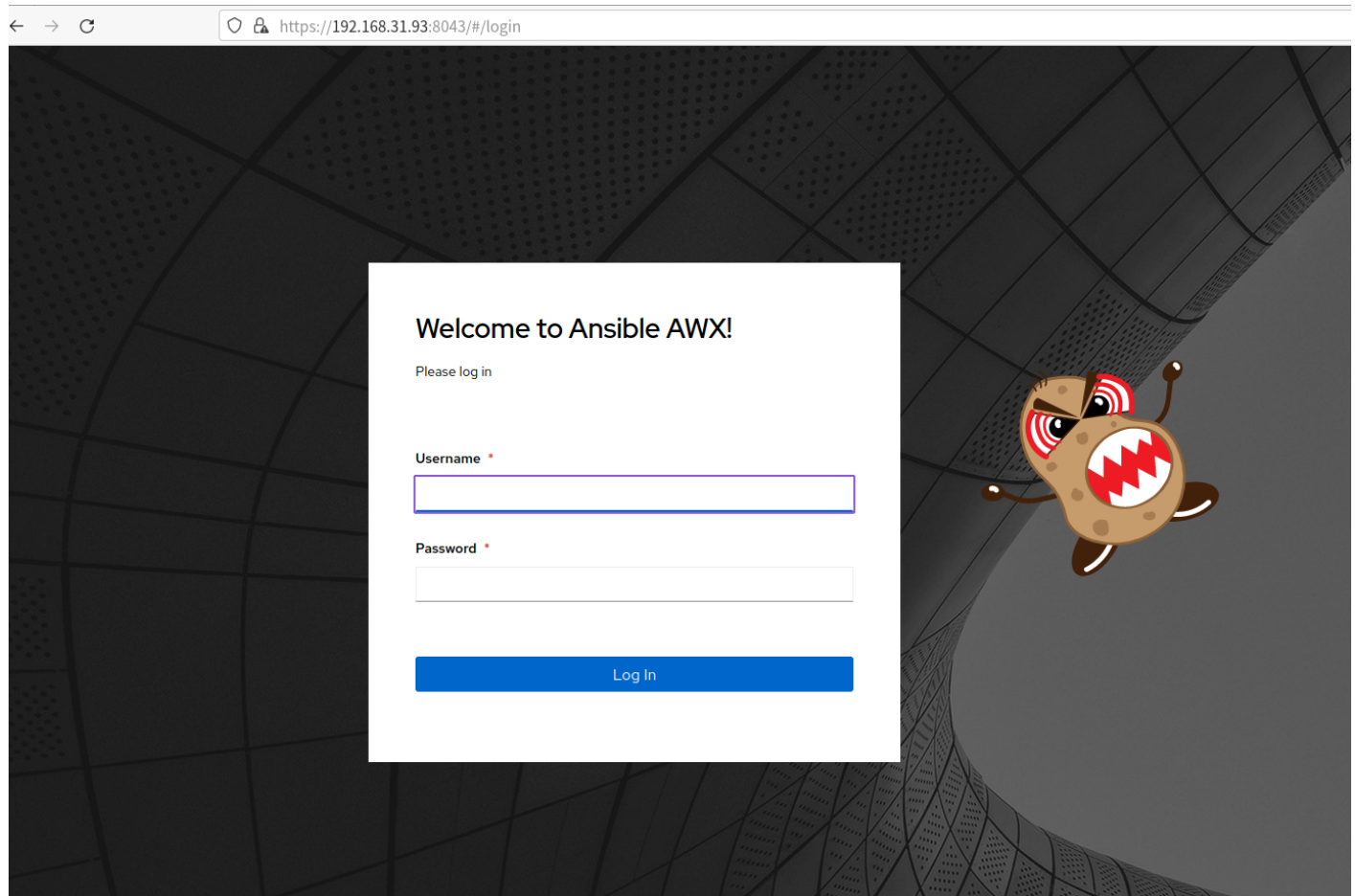
touch awx/ui/.ui-built  
make[1]: Leaving directory '/awx\_devel'

?? AWX ?????

? Ctrl + C ?? container????

```
make docker-compose
```

????? https://server.ip.adress:8043/



???admin ?????{? log ?}

## Q & A

“ No match for argument: rsyslog-8.2102.0-106.el9

Solution:

```
cp tools/ansible/roles/dockerfile/templates/Dockerfile.j2{,.orig}
sed -i 's/rsyslog-8.[0-9a-z\.-]*rsyslog/g' tools/ansible/roles/dockerfile/templates/Dockerfile.j2
```

# AWX Commands

?? AWX

```
# [ ] [ ] [ ] [ ]  
cd awx-repo/  
make docker-compose  
  
# [ ] [ ] [ ] [ ]  
make docker-compose COMPOSE_UP_OPTS=-d
```

?? AWX

```
docker stop tools_awx_1 tools_postgres_1 tools_redis_1
```

Create an admin user

```
docker exec -ti tools_awx_1 awx-manage createsuperuser
```

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