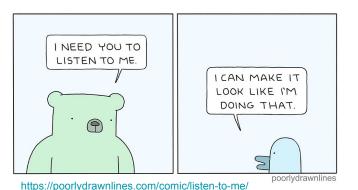


# Agenda



- Introduction
- What is Semaphore
- How to install Semaphore
- Concepts of Semaphore
- Automating Semaphore
- Demo
- Q&A



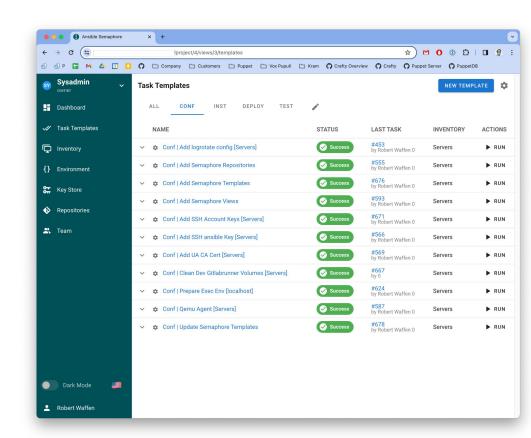
#### Robert Waffen

- "Agile Enterprise DevOps"
- Doing automation since 2008
- Following the smart admin principle
- Working at <u>betadots GmbH</u>
- Kindly sponsored by <u>uni-assist e.V.</u>
- Active in the <u>Vox Pupuli Puppet Community</u>
- Come and see my other talk, too :]

### What is Semaphore

- Alternative UI for ansible
- Simple easy approach
- Not so overloaded
- Simple installation
- Ideal for small businesses
- Can run locally or in a container
- Can be configured through API

https://github.com/ansible-semaphore/semaphore



# How to install Semaphore

```
Can be installed locally with snap

sudo snap install semaphore

sudo semaphore user add \
--admin \
--login your_login \
--name "Your Name" \
--email your-email@examaple.com \
--password your_password
```

```
services:
    semaphore:
    ports:
        - 3000:3000
    image: semaphoreui/semaphore:latest
    environment:
        SEMAPHORE_DB_DIALECT: bolt
        SEMAPHORE_ADMIN_PASSWORD: changeme
        SEMAPHORE_ADMIN_NAME: admin
        SEMAPHORE ADMIN_NAME: admin
```

SEMAPHORE ADMIN: admin

Can be run as a container

# Concepts of Semaphore

One will execute a "template". In order to do so one needs:

- A project
- An environment
- A SSH key
- A git repository
- An inventory

### A project:

- Collection of all other objects
- Like a "folder"
- To distinguish between teams

#### An environment:

- I don't really use this
- But is needed even if it is empty

### A SSH key

One or more keys without password

#### A git repository

- Should be clone-able with the ssh key
- Should include an ansible structure
- Should include a inventory

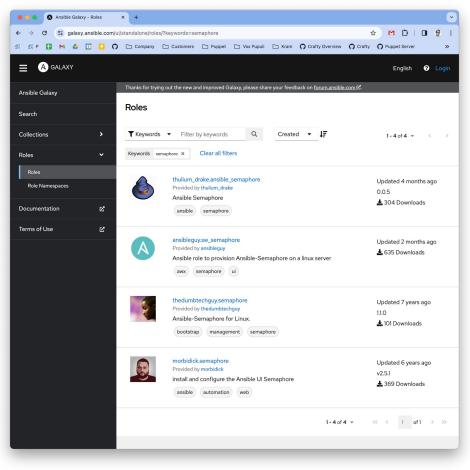
### An inventory

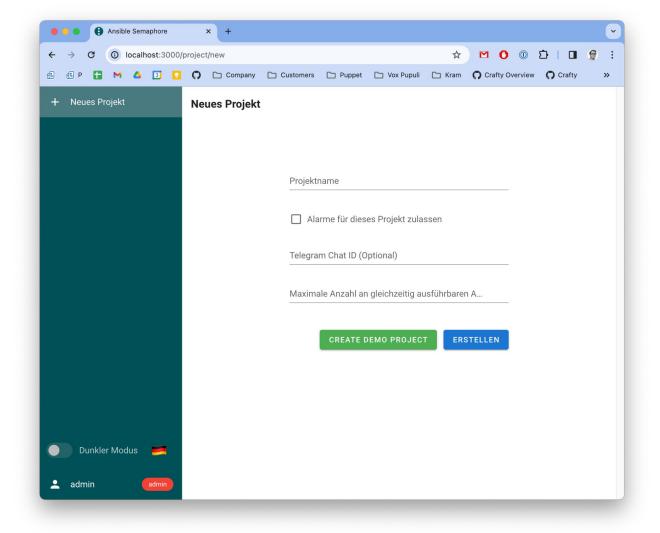
- Include host and/or groups

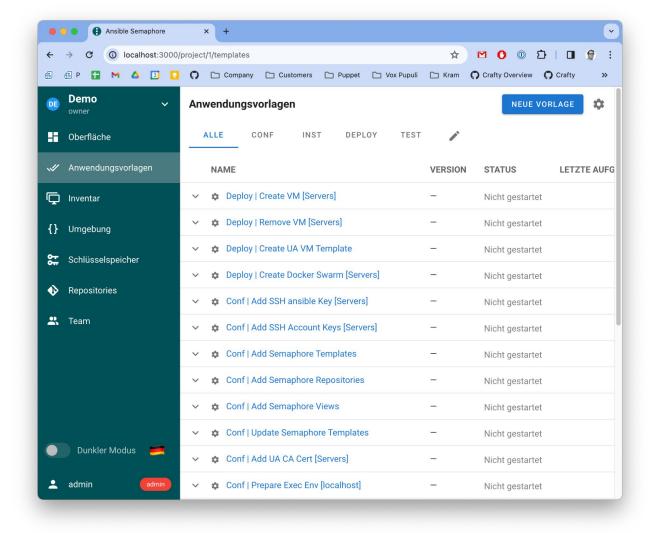
### **Automating Semaphore**

- No config role in the galaxy
- Do not want to install, will use a container
- Wrote own role
  - Not yet published
- Can configure and update templates
- Serves as a disaster recovery

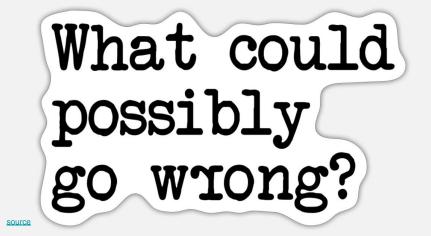
#### beladals







# **Demo Time!**



https://github.com/betadots/cfgmgmtcamp24-ansible-semaphore

### Demo

- docker compose up
- ansible-playbook playbooks/conf\_semaphore.yml -i inventories/test/hosts
- add SSH demo ansible key in semaphore
- Does not need to be in git repo, because public