



MANAGING UYUNI

WITH ANSIBLE



WHOAMI



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- > Linux, Virtualization, DevOps, Infrastructure as Code
- > Spacewalk user since version 2.0
- > Moderating the [FOCUS ON: Linux](#) podcast (german)

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- > **But** many \$customers love Ansible
- > Market shares still show a **leading** position for Ansible^{*}
 - > Salt is adopting and a **strong** performer
- > **Automating patch management** is a requirement for a lot of customers
 - > e.g. using AWX / Ansible Automation Platform
 - > complex workflows for fully-automated system maintenance

^{*} see Forrester reports from [2018](#) and [2019](#).

PREVIOUSLY: INSTALL UYUNI VIA ANSIBLE

```
---
- hosts: uyuni.giertz.loc
  become: true
  roles:
    - role: stdevel.uyuni
      setup_cefs: true
      setup_cefs_cronjob: true
      channels:
        - {"name": "centos7", "arch": "x86_64"}
        - {"name": "centos7-updates", "arch": "x86_64"}
```

Simple playbook for installing Uyuni and configuring channels:

```
$ ansible-playbook deploy_uyuni.yml
```

Role `stdevel.uyuni` is available on [Ansible Galaxy](#).

SUSE MANAGER

Deploying **SUSE Manager 4.x** is also possible:

```
---  
- hosts: mgmt.pinkepank.ltd  
  remote_user: root  
  become: true  
  roles:  
    - role: stdevel.uyni  
      scc_reg_code: DERP1337LULZ  
      scc_mail: bla@foo.bar
```

SUSE Customer Center **registration code** and **mail address**.

```
$ ansible-playbook deploy_suma.yml
```

// SYSTEM MAINTENANCE AUTOMATION

Daily system tasks could also be automated*:

- > installing **patches** and package upgrades
- > rebooting hosts
- > managing host information
 - > **software channels**
- > managing Content Lifecycle Projects
- > applying Salt Highstates

* can already be set via `spacecmd`, but not via Ansible

UYUNI ANSIBLE COLLECTION

- > **WIP:** Ansible Collection `stdevel.uyuni`
 - > currently only available via [GitHub](#)
 - > can install patches/upgrades and reboot hosts
 - > include/exclude parameters, **idempotence**

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`requirements.yml` definition:

```
---
collections:
  - name: git+http://github.com/stdevel/ansible-collection-uyuni.git
    scm: git
    version: main
```

PLAYBOOK: INSTALLING PATCHES/UPGRADES

```
- name: Install patches
stdevel.uyuni.install_patches:
  uyuni_host: 192.168.1.100
  uyuni_user: admin
  uyuni_password: admin
  uyuni_verify_ssl: false
  name: uyuni-client.labwi.sva.de
  # include_patches:
  #   - openSUSE-SLE-15.3-2022-2586
  # exclude_patches:
  #   - openSUSE-2022-10013
```

- > API endpoint connection details are required (XMLRPCClient)
- > include_patches and exclude_patches can be used to limit patch selection
- > if both are unspecified, **all** patches are installed

PLAYBOOK: INSTALLING PATCHES/UPGRADES

```
- name: Install upgrades
  stdevel.uyuni.install_upgrades:
    uyuni_host: 192.168.1.100
    uyuni_user: admin
    uyuni_password: admin
    uyuni_verify_ssl: false
    name: uyuni-client.labwi.sva.de
    # include_upgrades:
    #   - foobar
    # exclude_upgrades:
    #   - codium
```

- > include_upgrades and exclude_upgrades can be used to limit patch selection
- > if both are unspecified, **all** upgrades are installed

DEMO TIME



FUTURE

- > `stdevel.uyuni` role will be part of this collection
- > **additional** roles planned:
 - > `stdevel.uyuni_upgrade` - Upgrading installations
 - > `stdevel.uyuni_proxy` - Proxy installations

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- > **additional** roles planned:
 - > `stdevel.uyuni_upgrade` - Upgrading installations
 - > `stdevel.uyuni_proxy` - Proxy installations
- > support for additional **functionality**
 - > Content Lifecycle Projects
 - > host information
 - > ...
- > Contributions and **feedback** are always welcome!

QUESTIONS?

