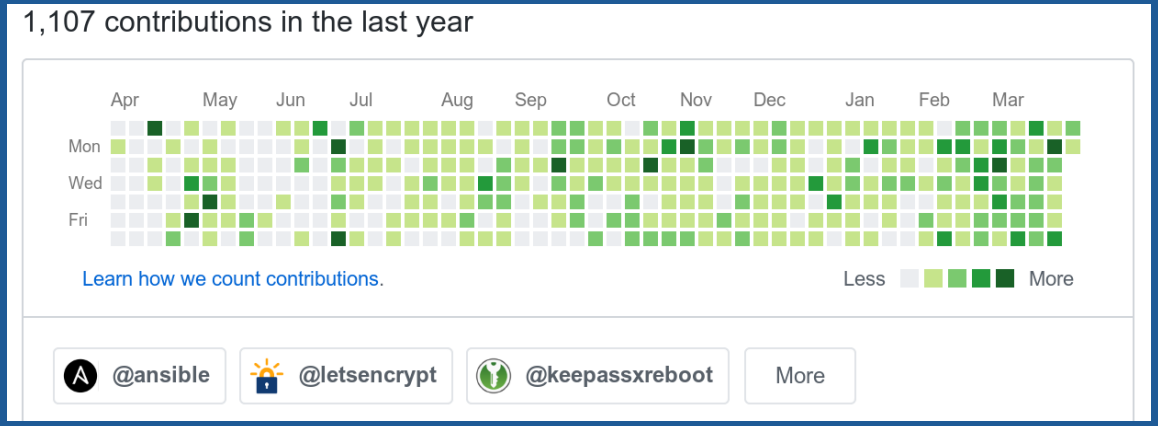
PUZZLE ITC
changing IT for the better

Felix Fontein



Ansible Inventory Plugins

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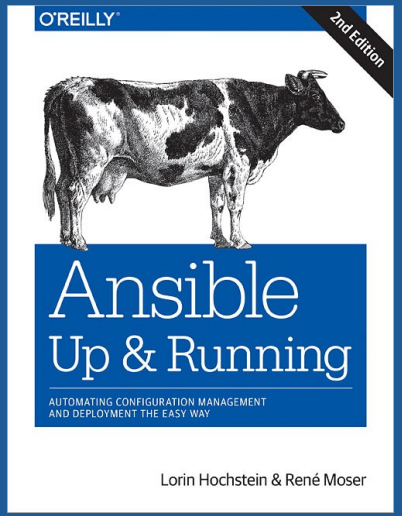

CHANGING IT FOR THE BETTER
PUZZLE ITC
WERTE
ANSIBLE
INFRASTRUKTUR
APPUiO
SWISS CONTAINER PLATFORM
DELIVERY
APPLIKATIONEN
PROJEKTE
MANDATE
CONSULTING
LÖSUNGEN
BERATUNG
Liima
APPUiO
HITOBITO
#PUZZLENESS
BEER

Agenda

02.04.2019

1. Brief Intro
2. Hands on
3. Questions

Plugins

Plugins

1. Action
2. Cache
3. Callback
4. Connection
5. Inventory
6. Lookup
7. Shell
8. Strategy
9. Tasks
10. Vars
11. Filters

History

Inventory JSON

```
{
    "all": {
        "children": [
            "ungrouped",
            "example_group"
        ]
    },
    "example_group": {
        "hosts": [
            "example01"
        ]
    },
    "_meta": {
        "hostvars": {
            "example01": {
                "ansible_host": "10.10.10.10",
                "os": "Debian 9"
            },
        },
    },
}
```

Inventory

- advanced_host_list – Parses a 'host list' with ranges
- auto – Loads and executes an inventory plugin specified in a YAML config
- aws_ec2 – ec2 inventory source
- aws_rds – rds instance source
- azure_rm – Azure Resource Manager inventory plugin
- constructed – Uses Jinja2 to construct vars and groups based on existing inventory
- docker_swarm – Ansible dynamic inventory plugin for Docker swarm nodes
- foreman – foreman inventory source
- gcp_compute – Google Cloud Compute Engine inventory source
- generator – Uses Jinja2 to construct hosts and groups from patterns
- gitlab_runners – Ansible dynamic inventory plugin for Gitlab runners
- hcloud – Ansible dynamic inventory plugin for the Hetzner Cloud
- host_list – Parses a 'host list' string
- ini – Uses an Ansible INI file as inventory source
- k8s – Kubernetes (K8s) inventory source
- linode – Ansible dynamic inventory plugin for Linode
- netbox – NetBox inventory source
- nmap – Uses nmap to find hosts to target
- online – Online inventory source
- openshift – OpenShift inventory source
- openstack – OpenStack inventory source
- scaleway – Scaleway inventory source
- script – Executes an inventory script that returns JSON
- toml – Uses a specific TOML file as an inventory source
- tower – Ansible dynamic inventory plugin for Ansible Tower
- virtualbox – virtualbox inventory source
- vmware_vm_inventory – VMware Guest inventory source
- vultr – Vultr inventory source
- yaml – Uses a specific YAML file as an inventory source

```
[inventory]
enable_plugins = host_list, script, auto, yaml, ini, toml
```

ansible.cfg

```
# demo.aws_ec2.yml
plugin: aws_ec2
```

demo.aws_ec2.yml

```
ansible-inventory -i demo.aws_ec2.yml --graph
```

Graph it !

Demo!

...and thanks for not having slept during the intro...