What’s new in host deploy?

Dana Elfassy
Software Engineer

09/2020
Nice to meet you :)

- Backend developer, Infra team
- Maintainer:
  - Host install & upgrade
  - Ansible Runner Service

- Contact Information
  - Email: delfassy@redhat.com
  - Github: @dangel101
Content

- Host deploy up until 4.4 and the motivation for change
- Background on Ansible & Ansible Runner Service
- Troubleshooting
- Demo
- Summary
Old host deploy demo
Old host deploy log
Host deploy - From Otopi to Ansible based process

- Hard versus easy to understand and add new roles
- Already in use (host upgrade)
- The change is transparent
Ansible properties

- Open source IT configuration management & automation platform
- Simple to setup and use
- Human readable - YAML
- Agentless:
  - Potential failure ✗
  - Security vulnerability ✗
  - Saves system resources ✓
- Idempotent
Ansible Runner

- Python library that helps interacting with Ansible
- Responsible for running ansible & ansible-playbook tasks
  - `ansible all -m ping`
  - `ansible-playbook <playbook-name>`
- Connect over SSH by default
Ansible tasks - code snippet

ovirt-host-deploy-vdsm:

- name: Install dmidecode package
  yum:
    name: dmidecode
    state: present

- name: Detect vdsm id for x86_64 or i686
  shell: dmidecode -s system-uuid
  register: vdsm_id_res
  tags:
    - skip_ansible_lint # E305
Playbook results

```
{
    "_ansible_no_log" : false,
    "_ansible_delegated_vars" : {
    },
    "start" : "2020-06-30T11:07:47.71493",
    "end" : "2020-06-30T11:07:48.276494",
    "duration" : 0.565001,
    "event_loop" : null,
    "uuid" : "5bf0a383-0bad-488b-be97-f39091baf917"
}
```

2020-06-30 14:07:50 IDT - TASK [Executing post tasks defined by user] ################################################################################

2020-06-30 14:07:50 IDT - PLAY RECAP ################################################################################

192.168.100.191  : ok=90  changed=27  unreachable=0  failed=0  skipped=50  rescued=0  ignored=1
/etc/ansible-runner-service/config.yaml

```yaml
...
playbooks_root_dir: '/home/delfassy/ovirt-engine-master/share/ovirt-engine/ansible-runner-service-project'
ssh_private_key: '/home/delfassy/ovirt-engine-master/etc/pki/ovirt-engine/keys/engine_id_rsa'
port: 50001
target_user: root
```
Troubleshooting

- **Host deploy & upgrade**
  - `/var/log/ovirt-engine/host-deploy/ovirt-host-deploy-ansible-20200604152720-1
  92.168.100.249-3c4043cf-7edc-4d67-be45-9f5b14741533.log`
  - `/var/log/ovirt-engine/host-deploy/ovirt-host-mgmt-ansible-check-202006041531
  01-192.168.100.249-7d324986-f09b-4518-92fb-34088af8a1ff.log`

- **Ansible Runner Service**
  - `/var/log/ovirt-engine/ansible-runner-service.log`
## Troubleshooting

<table>
<thead>
<tr>
<th>Time</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Jun 28, 2020, 12:36:33 PM</strong></td>
<td>Host centos8 installation failed. Task Start and enable services failed to execute. Please check logs for more details: /home/delfassy/ovirt-engine-master/var/log/ov...</td>
</tr>
</tbody>
</table>
Host upgrade log

************
2020-06-04 16:08:23 IDT - failed: [192.168.100.249] (item=vdsm-python.noarch) => {
    "ansible_loop_var": "item",
    "changed": false,
    "item": "vdsm-python.noarch",
    "msg": "Failed to download metadata for repo 'ovirt-master-epel'",
    "rc": 1,
    "results": []
}
2020-06-04 16:08:23 IDT - ok: [192.168.100.249] => (item=vdsm-yajsonrpc.noarch)
2020-06-04 16:08:23 IDT - failed: [192.168.100.249] (item=virglrenderer.x86_64) => {
    "ansible_loop_var": "item",
    "changed": false,
    "item": "virglrenderer.x86_64",
    "msg": "Failed to download metadata for repo 'ovirt-master-epel'",
    "rc": 1,
    "results": []
}
2020-06-04 16:08:23 IDT - ok: [192.168.100.249] => (item=virt-v2v.x86_64)
2020-06-04 16:08:23 IDT - skipping: [192.168.100.249] => (item=)
2020-06-04 16:08:23 IDT -
2020-06-04 16:08:23 IDT - {
    "status": "OK",
    "msg": "",
    "data": {}}
<table>
<thead>
<tr>
<th>Time</th>
<th>Message</th>
</tr>
</thead>
</table>
Ansible runner service log

/var/log/ovirt-engine/ansible-runner-service.log

2020-07-01 14:44:24,498 - runner_service.inventory - WARNING - Race condition hit creating Inventory file: [Errno 2] No such file or directory: '/invalid_path/home/delfassy/ovirt-engine-master/share/ovirt-engine/ansible-runner-service-project/inventory/hostsv

(END)
2020-08-21 18:52:10 IDT - TASK [ovirt-host-deploy-kernel : Removing old kernel arguments] ***************
2020-08-21 18:52:10 IDT - changed: [10.46.9.175]
2020-08-21 18:52:10 IDT - {
    "status": "OK",
    "msg": "",
    "data": {
        "uuid": "11800090-a94e-4f45-a653-7428bf8cc9d4",
        "counter": 360,
        "stdout": "changed: [10.46.9.175]",
    }
}
Summary

- Host deploy using Otopi & the motivation for change
- Introduction to Ansible and Ansible Runner Service
- Obstacles down the road
- Troubleshooting
Thank you!

https://ovirt.org/

users@ovirt.org

@ovirt