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What's new in host deploy?

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09/2020



Nice to meet you:)



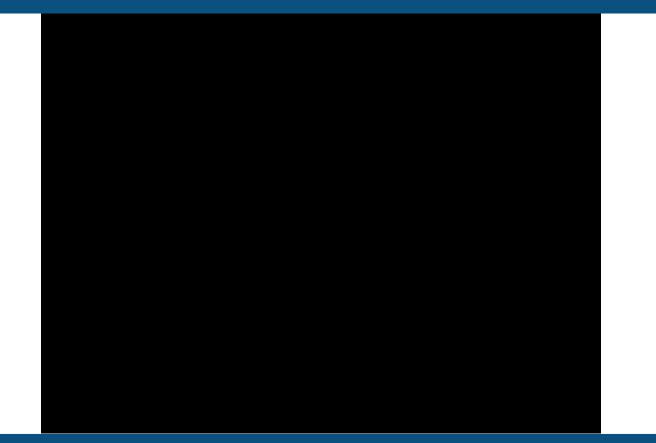
- Backend developer, Infra team
- Maintainer:
 - Host install & upgrade
 - Ansible Runner Service
- Contact Information
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 - o Github: @dangel101



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

```
2020-08-21 14:25:10,697+0300 DEBUG otopi.context context.dumpSequence:665 SEOUENCE DUMP - BEGIN
2020-08-21 14:25:10,697+0300 DEBUG otopi.context context.dumpSequence:667 STAGE boot
2020-08-21 14:25:10,697+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.ovirt host deploy.core.misc.Plugin. p
reinit (None)
                                                                              METHOD otopi.plugins.otopi.core.log.Plugin.init (otopi.co
2020-08-21 14:25:10,697+0300 DEBUG otopi.context context.dumpSequence:672
re.log.init)
2020-08-21 14:25:10,697+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.otopi.core.misc.Plugin.init (None)
2020-08-21 14:25:10,697+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.otopi.dialog.misc.Plugin.init (otopi
.dialog.misc.boot)
2020-08-21 14:25:10.697+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.otopi.system.info.Plugin. init (None)
2020-08-21 14:25:10.698+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.otopi.dialog.human.Plugin. init (None
2020-08-21 14:25:10,698+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.otopi.dialog.machine.Plugin.init (No
ne)
2020-08-21 14:25:10,698+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.otopi.dialog.misc.Plugin.boot misc d
one (otopi.dialog.boot.done)
                                                                              METHOD otopi.plugins.otopi.packagers.dnfpackager.Plugin. b
2020-08-21 14:25:10,698+0300 DEBUG otopi.context context.dumpSequence:672
oot (None)
2020-08-21 14:25:10,698+0300 DEBUG otopi.context context.dumpSequence:672
                                                                              METHOD otopi.plugins.otopi.packagers.yumpackager.Plugin. b
```

oot (otopi.packagers.yum.boot)

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
 - o 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": "2020-06-30T11:07:47.711493",
      "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
                                                 unreachable=0
                           : ok=90
                                    changed=27
                                                                  failed=0
                                                                              skipped=50
                                                                                           rescued=0
                                                                                                        ignored=1
(END)
```

Config file

/etc/ansible-runner-service/config.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: 50001target_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

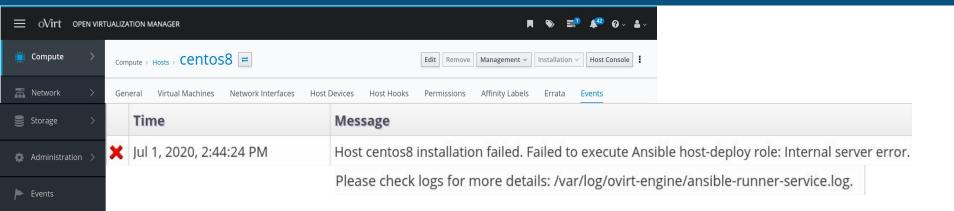
	Time	Message
×	Jun 28, 2020, 12:36:33 PM	Host centos8 installation failed. Task Start and enable services failed to execute.
		Please check logs for more details: /home/delfassy/ovirt-engine-master/var/log/ovi

Host upgrade log

```
2020-06-04 15:37:43 IDT - TASK [ovirt-host-upgrade : Upgrade packages]
******
2020-06-04 16:08:23 IDT - failed: [192.168.100.249] (item=vdsm-python.noarch) => {"ansible loop v
ar": "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 metad
ata 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" : "0K",
 "msg" : "",
  "data" : {
```

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Ansible runner service log

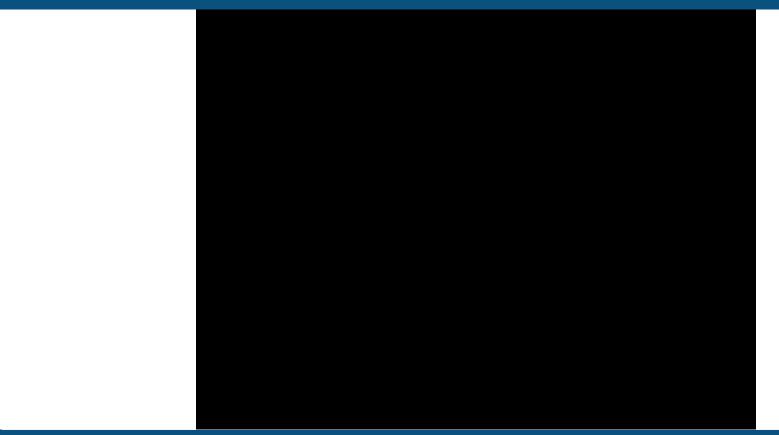


Ansible runner service log

/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 dir ectory: '/invalid_path/home/delfassy/ovirt-engine-master/share/ovirt-engine/ansible-runner-service-project/inventory/hosts'
~
(END)
```

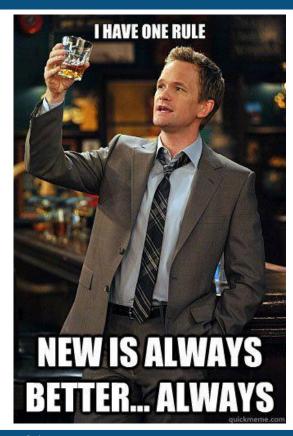
Demo



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Host deploy log

Summary



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

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Thank you!

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