DevSecOps with disconnected Red Hat OpenShift

Improving mission agility for the US Air Force

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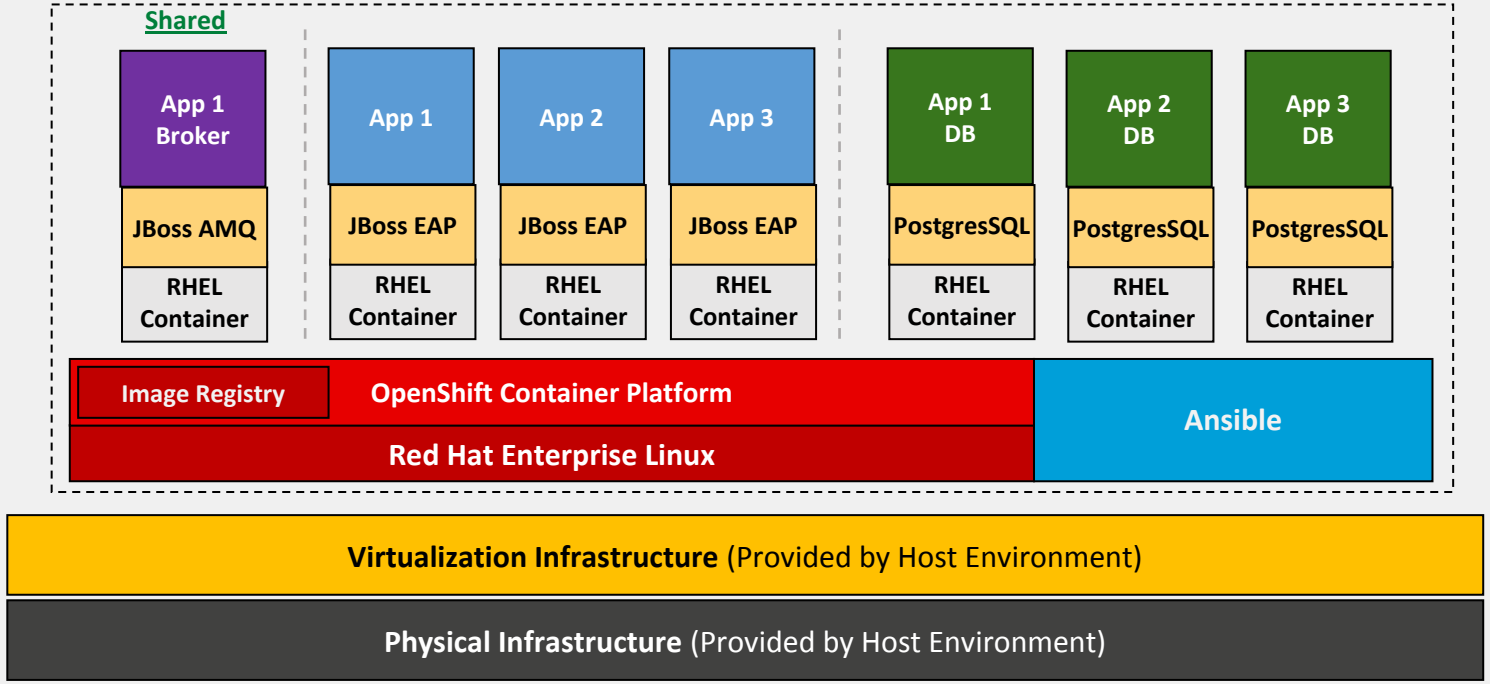
Installer Primary Capabilities

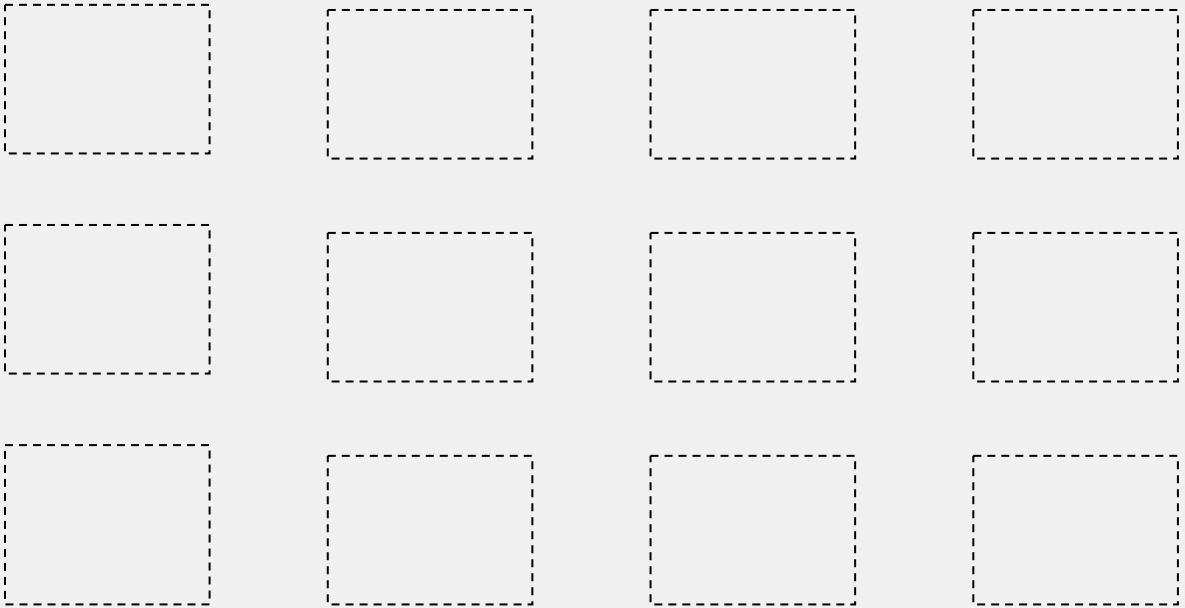
- Automated Installation & Configuration Management
- Disconnected Environment on physical DVD Media (DVD)
- Standardized Application Deployment Concepts
- Security Lockdowns / Automated IA Controls & STIGs

Architecture Logical Overview



Installation Process

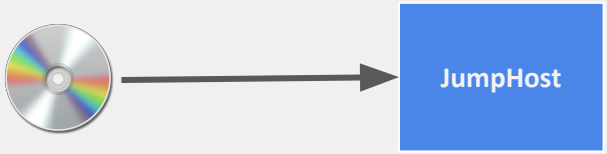
Provision Servers

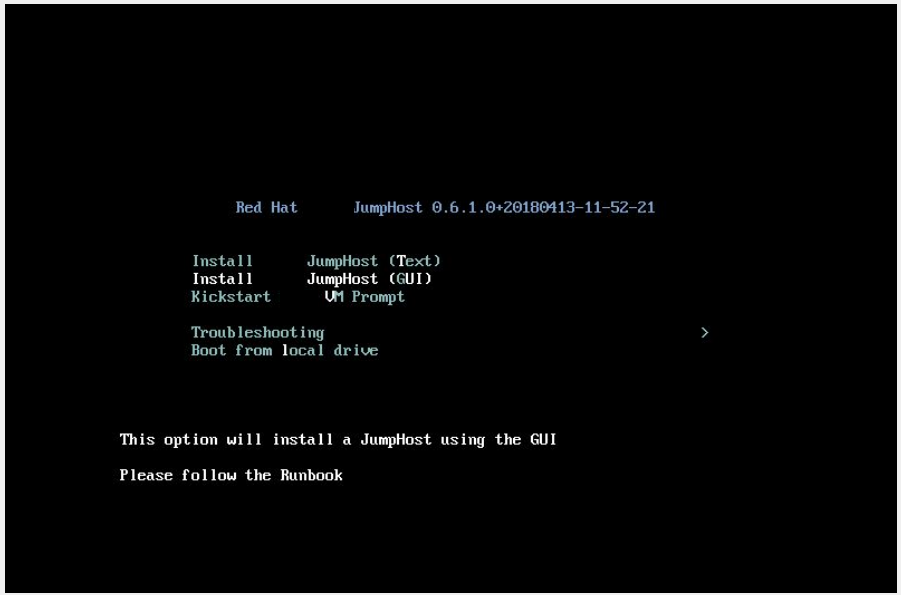


Blank VMs or bare metal blades are created by the site administrator per system requirements

Installation Process

Automated installation of JumpHost

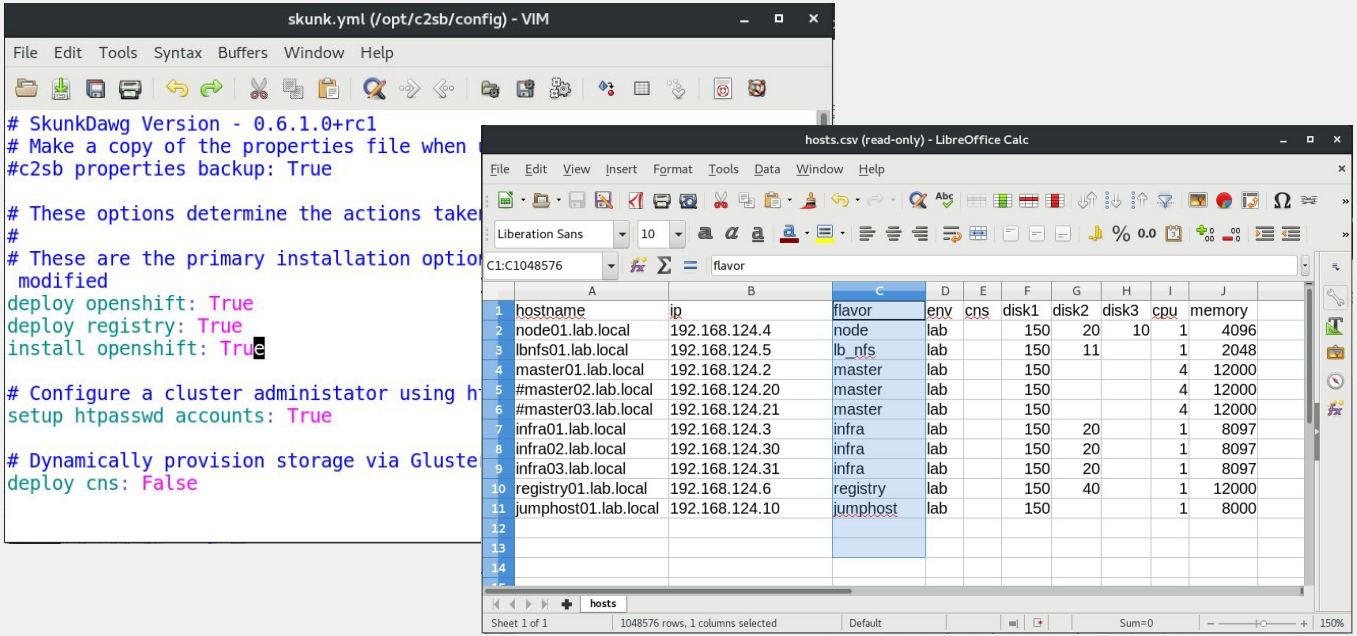




Delivered as a single DVD that includes an automated RHEL kickstart installation and disconnected media for OCP, Ansible, JBoss, Postgres, etc.

Installation Process

Configuration Files



A series of YAML files that define various parameters. Also, the server host inventory is defined in a CSV file.

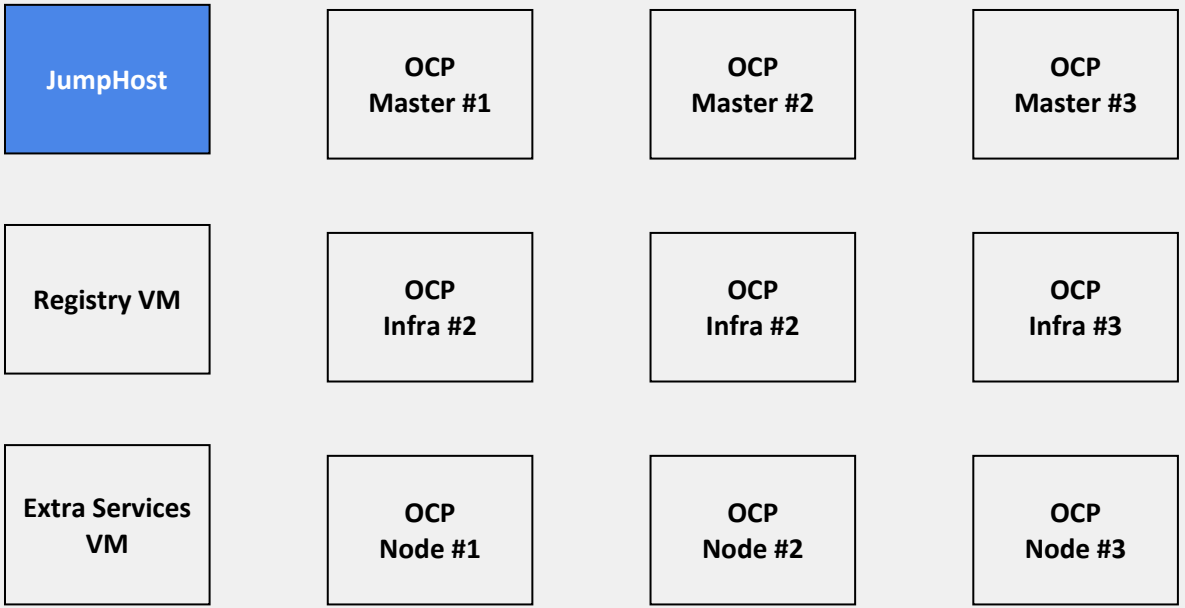
Installation Process

Execute the `skunk configure` command

```
Warning: Permanently added 'jumphost01.lab.local,192.168.124.10' (ECDSA) to the
list of known hosts.
```

Installation Process

Kickstart Servers



Each VM is then installed using a kickstart script, these can be installed using PXE boot.

Installation Process

Execute the `skunk install` command

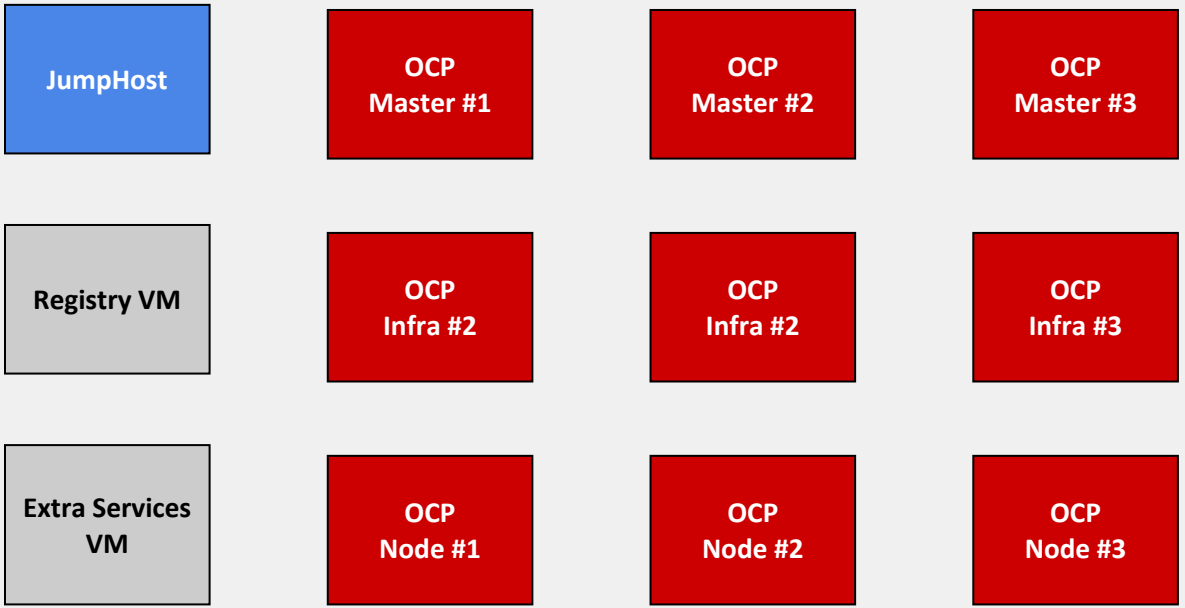
```
Warning: Permanently added 'jumphost01.lab.local,192.168.124.10' (ECDSA) to the
Last login: Mon Apr 23 16:41:38 2018 from gateway

    Skunk Dawg Release 0.6.1.0+20180413-11-52-21

```

Installation Process

Provision Servers



The stack is now fully deployed ready for the client applications.

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