



**Connect**

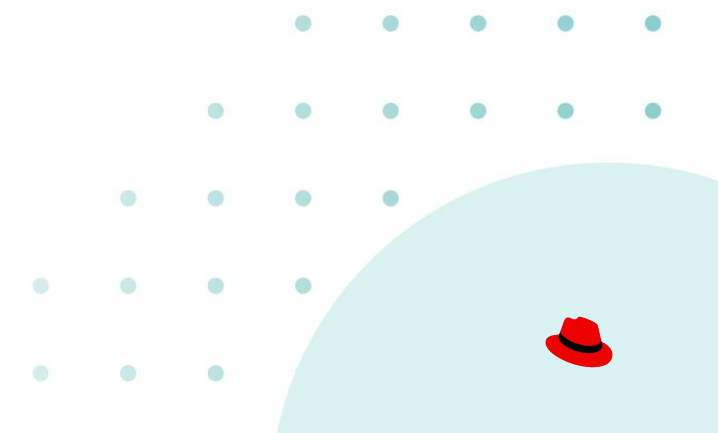
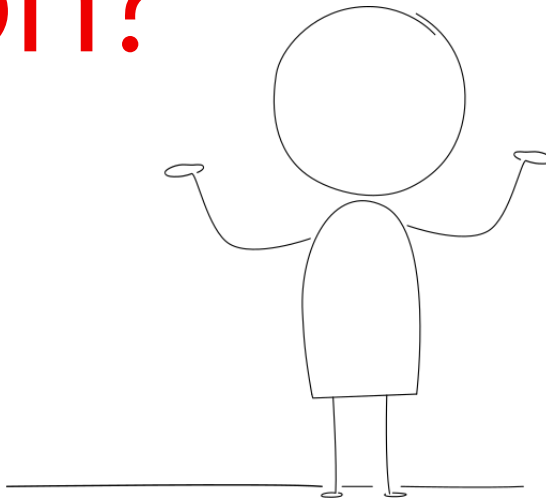
# OpenShift Virtualization at Scale with Ansible Automation Platform

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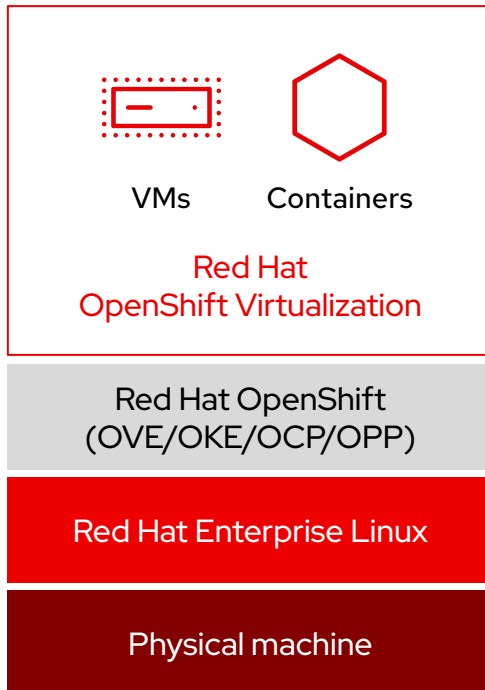


# Why is there so much attention to Virtualization?



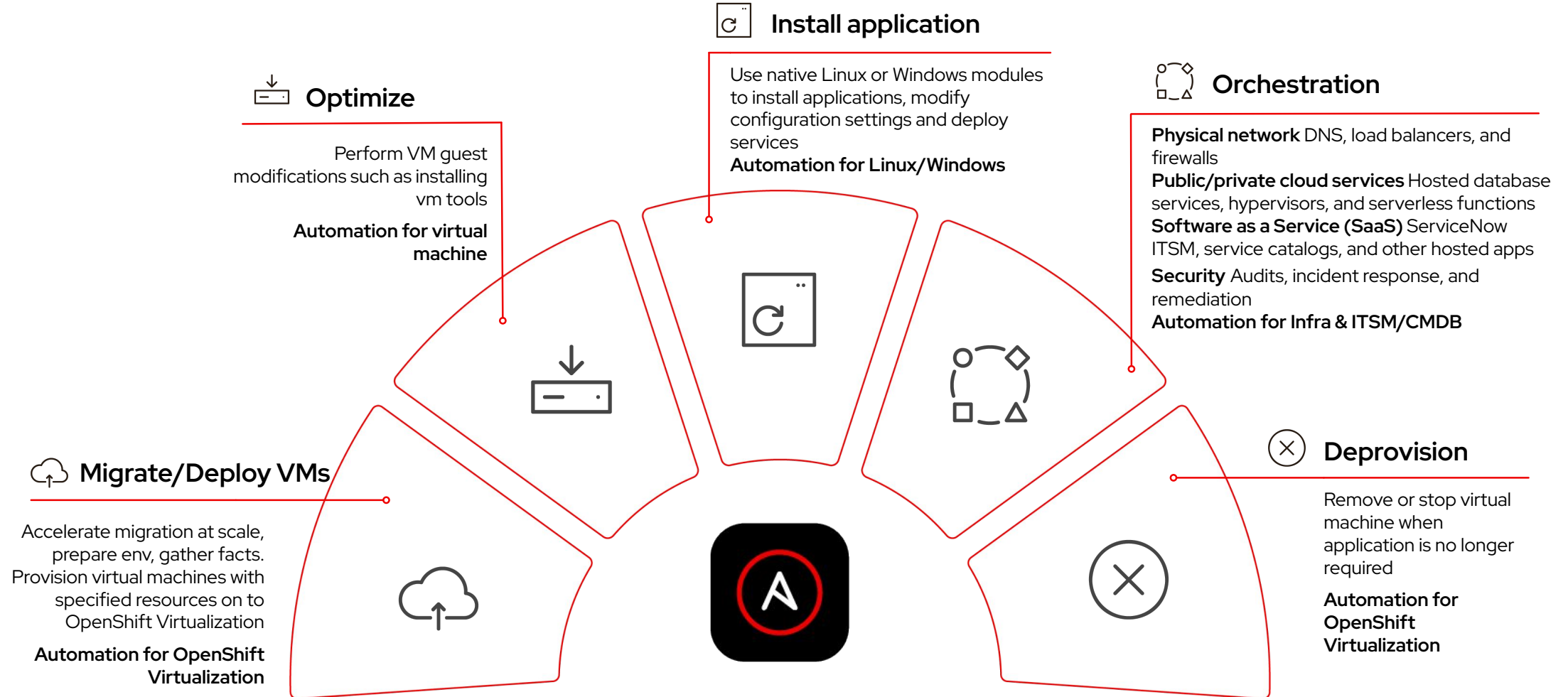
# Red Hat OpenShift Virtualization

The modern option for general purpose virtualization

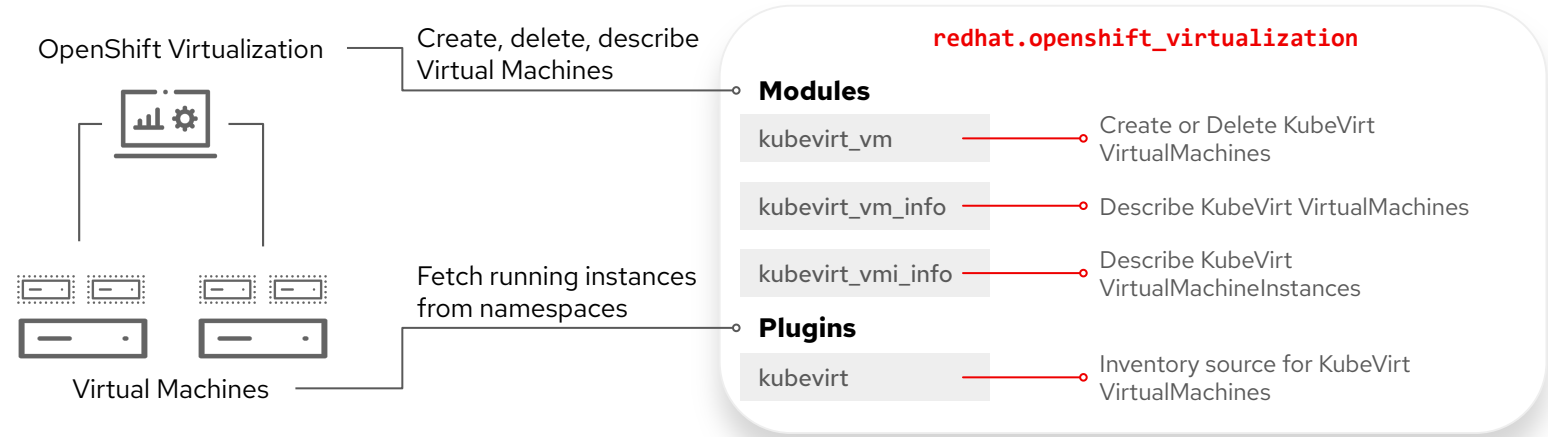


- ▶ **Unified platform**  
for virtual machines and containers\*
- ▶ **Consistent management**  
tools, interfaces, and APIs incl. ACM and AAP integrations
- ▶ **Performance and stability**  
of Linux, KVM, and qemu
- ▶ **Healthy open source community**  
the KubeVirt project is a top 10 CNCF active project, with 200+ contributing companies
- ▶ **Diverse ecosystem**  
of Red Hat & partner operators
- ▶ **Included feature**  
of all OpenShift subscriptions (OVE/OKE/OCPP/OPP)
- ▶ **Includes Red Hat Enterprise Linux**  
guest entitlements\*
- ▶ **Supports Microsoft Windows**  
guests through Microsoft SVVP
- ▶ **Inbound guest migration**  
using Ansible Automation Platform + Migration Toolkit for Virtualization, Training and Consulting
- ▶ **Virt admin focused training**  
[DO316](#), [EX316](#)

\*excluding OVE which is virtual machines only and includes no RHEL guest entitlements



What's in the box?



**infra.openshift\_virtualization\_migration**

**At a glance**

aap_deploy	network_mgmt
bootstrap	operator_mgmt
mtv_mgmt	validate_migration
mtv_migrate	...and more!

**infra.openshift\_virtualization\_ops**

**At a glance**

vm_backup_restore	vm_lifecycle
vm_collect	vm_networking
vm_hot_plug	vm_patching

```
---
- name: Create a VM snapshot (OpenShift Virt)
  hosts: localhost
  tasks:

- name: Use vm_backup_restore role
  ansible.builtin.import_role :
    name: infra.openshift_virtualization_ops.vm_backup_restore
    tasks_from: vm_backup.yml
  vars:
    vm_backup_restore_request :
      - operation: snapshot
        names:
          - rhel01
        namespace: vmexamples-user1
```



# AAP + Virt Architecture "by Day"

Ansible Automation Platform

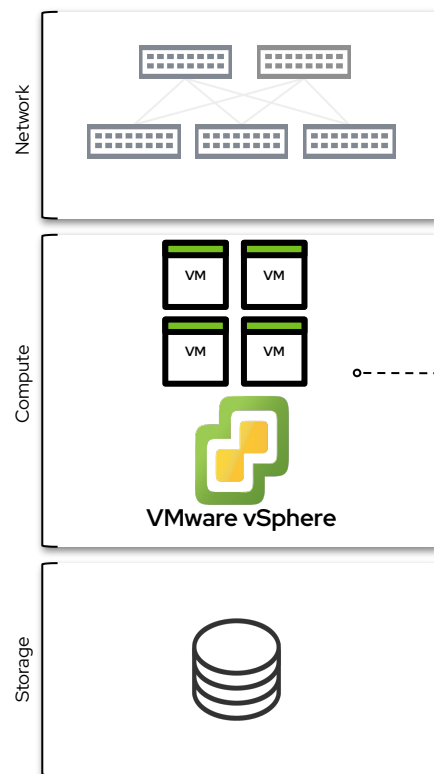


Automate & Orchestrate

Discover / Prepare

Day 2 Automation & Management

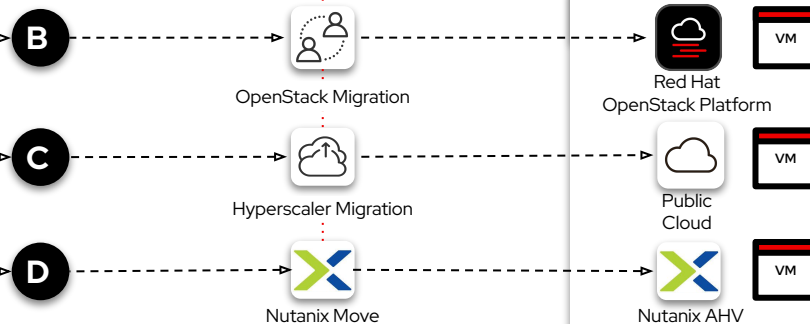
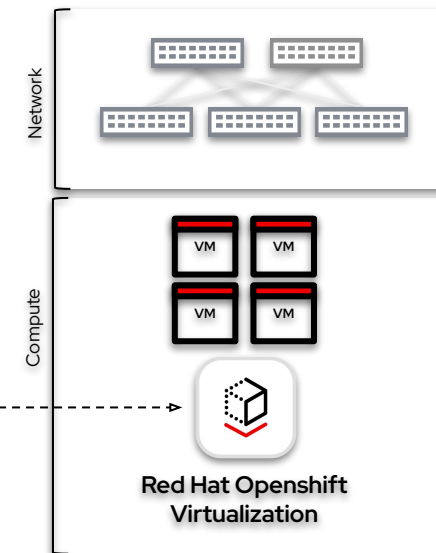
0 Existing



1 Migrate



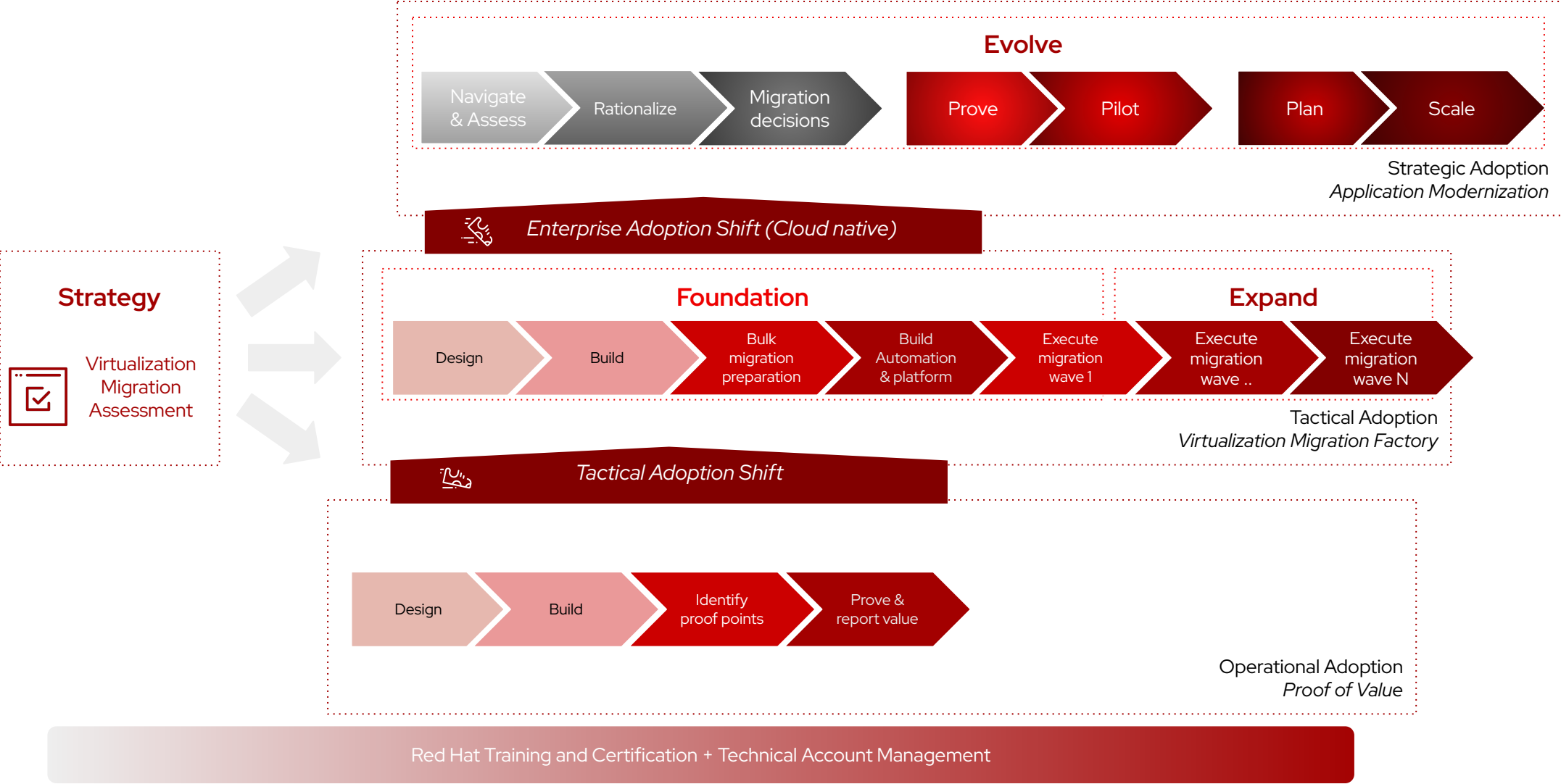
2 Steadystate



Alternative hosting options

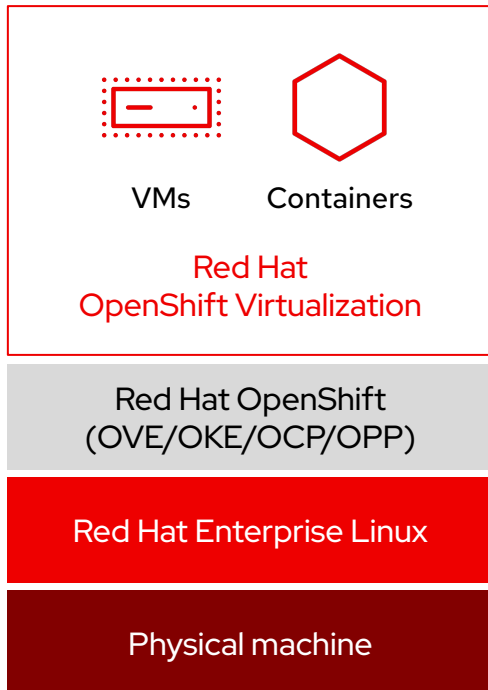
# Red Hat services







# Key Takeaways



- ▶ **Red Hat OpenShift Virtualization as the modern, unified platform** for virtual machines and containers
- ▶ **Automation is Key for Scale** provides modules and collections to automate the entire lifecycle of virtual machines, from provisioning and migration to day 2 operations and de-provisioning.
- ▶ **Red Hat's Virtualization Migration Services** offers a structured approach to help customers migrate their virtual machines.

# Questions?



# Optional Demo





Connect

# Thank you



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