

Cloud Computing

Winter Term 2018/2019

Tutorial Session 3



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Complex and Distributed IT-Systems

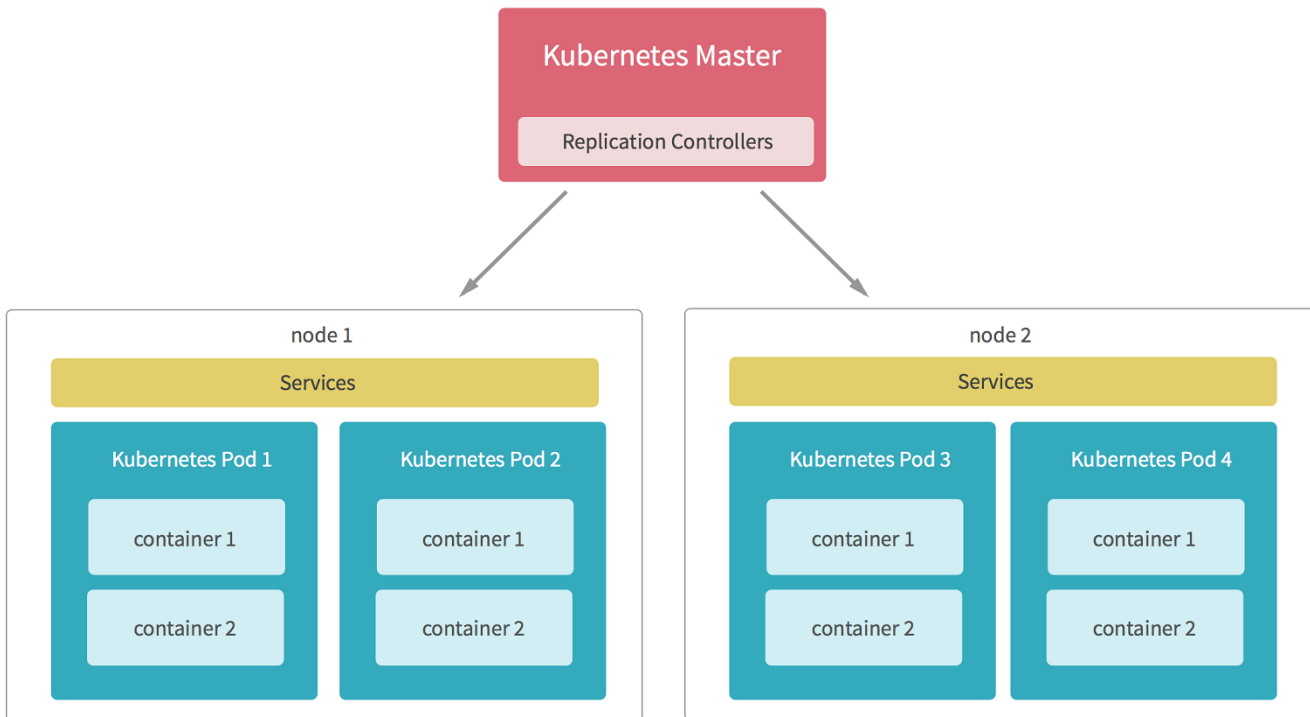
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Practical Assignment 3

- Due: 24.01.2019
- Summary:
 - Prepare 3 VMs (in public cloud or locally)
 - Deploy Kubernetes cluster using Kubespray (Ansible playbook)
 - Prepare simple Docker containers for dummy web service
 - Roll out web service in Kubernetes cluster using an own Ansible playbook
 - Evaluate the deployment with a provided test script

Kubernetes

- Distributed platform for orchestrating containerized applications

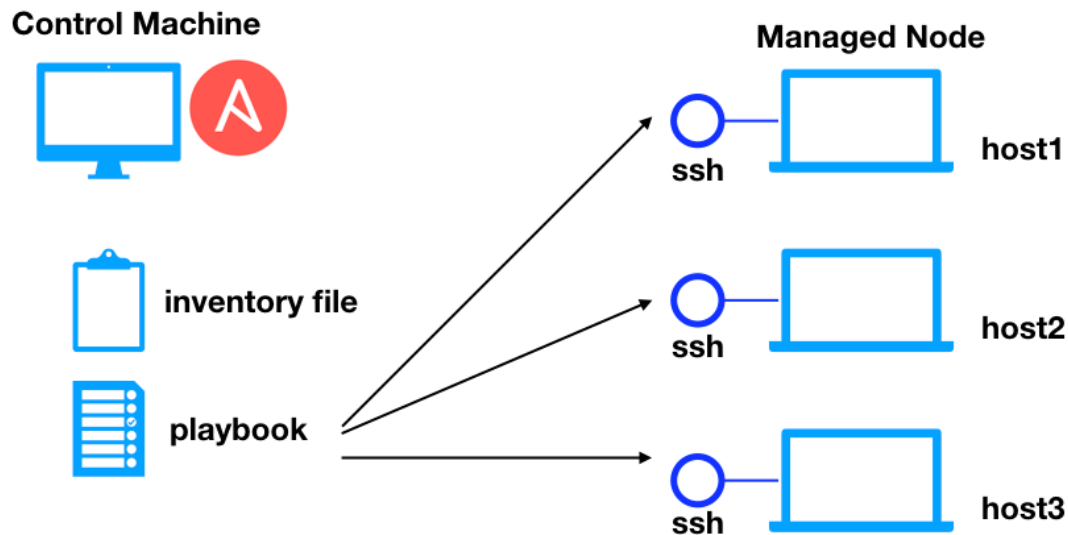


Kubernetes

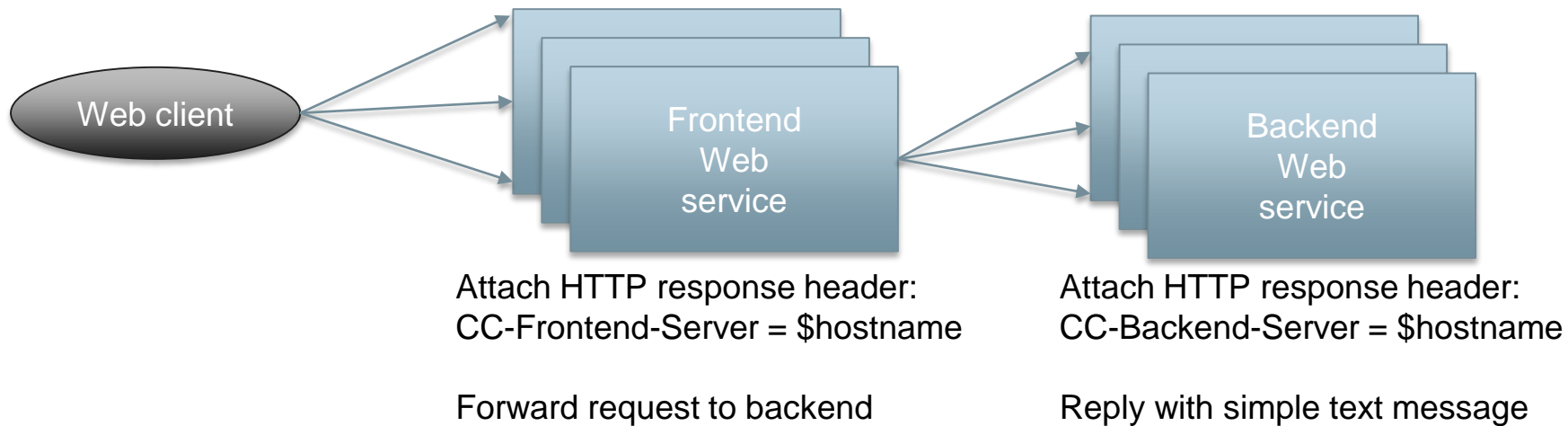
- High-level concepts for powerful orchestration:
 - Pod
 - Deployment, ReplicationSet
 - Service, Endpoint
 - ...

Ansible

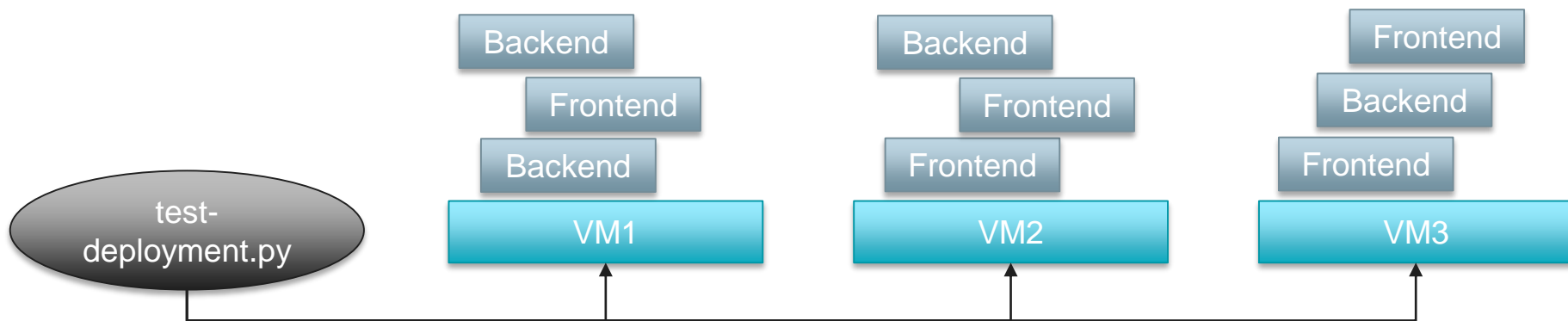
- Declarative description of orchestration tasks on host level
- Idempotent “playbooks”
- Handy modules for all kinds of typical administration tasks



Target deployment



Target deployment



- Send many requests
- Evaluate Response headers