Virtual Machines Instances

The VirtualMachineInstance type conceptionally has two parts:

- · Information for making scheduling decisions
- · Information about the virtual machine API

Every VirtualMachineInstance object represents a single running virtual machine instance.

API Overview

With the installation of KubeVirt, new types are added to the Kubernetes API to manage Virtual Machines.

You can interact with the new resources (via kubect1) as you would with any other API resource.

VirtualMachineInstance API

Note: A full API reference is available at https://kubevirt.io/api-reference/.

Here is an example of a VirtualMachineInstance object:

```
apiVersion: kubevirt.io/v1
kind: VirtualMachineInstance
metadata:
 name: testvmi-nocloud
  terminationGracePeriodSeconds: 30
  domain:
   resources:
     requests:
       memory: 1024M
   devices:
      - name: containerdisk
       disk:
        bus: virtio
      - name: emptydisk
       disk:
         bus: virtio
      - disk:
         bus: virtio
       name: cloudinitdisk
  volumes:
  - name: containerdisk
   containerDisk:
     image: kubevirt/fedora-cloud-container-disk-demo:latest
  - name: emptydisk
   emptyDisk:
     capacity: "2Gi"
  - name: cloudinitdisk
   cloudInitNoCloud:
      userData: |-
        #cloud-config
        password: fedora
        chpasswd: { expire: False }
```

This example uses a fedora cloud image in combination with cloud-init and an ephemeral empty disk with a capacity of 261. For the sake of simplicity, the volume sources in this example are ephemeral and don't require a provisioner in your cluster.

Additional Information

- Using instancetypes and preferences with a VirtualMachine: Instancetypes and preferences
- More information about persistent and ephemeral volumes: Disks and Volumes
- How to access a VirtualMachineInstance via console or vnc : Console Access