

Open Source
MANO

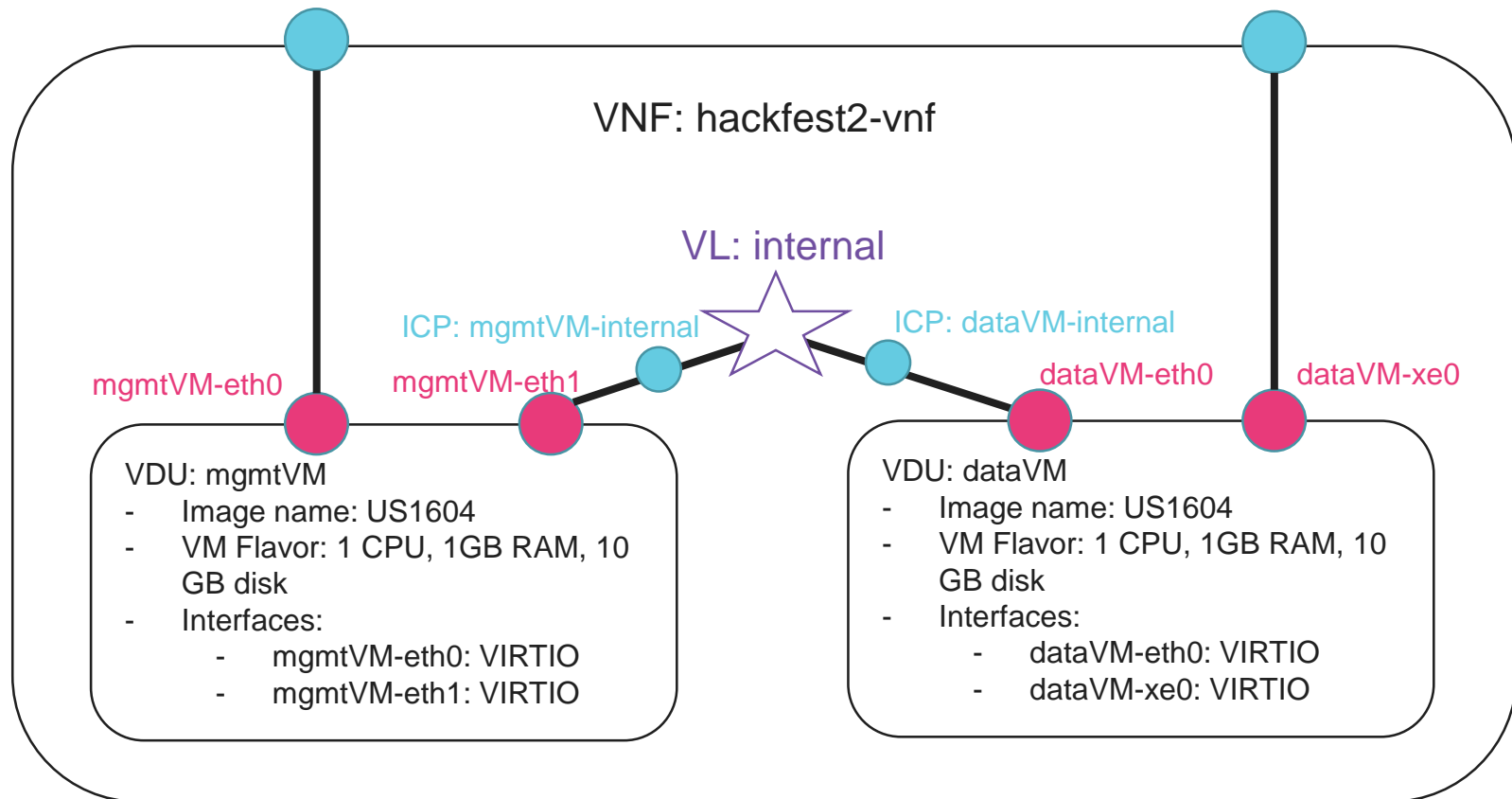
OSM Hackfest – Session 2 Modeling multi-VDU VNF

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VNF diagram

External Connection point: vnf-mgmt

External Connection point: vnf-data



Creating the VNF in the UI (1/4)

- Go to the catalog
- Add VNFD
 - Name: hackfest2-vnf
 - Add 2 Connection Points (external):
 - CONNECTION POINT 1:
 - name: vnf-mgmt
 - CONNECTION POINT 2:
 - name: vnf-data
- Add new VLD 'internal' to the VNF:
 - Name: internal
 - TYPE: ELAN

Creating the VNF in the UI (2/4)

- Add VDU1 in the VNF
 - Name: mgmtVM
 - Image: US1604
 - VM Flavor:
 - VCPU COUNT: 1
 - MEMORY MB: 1024
 - STORAGE GB: 10
 - Add 1 internal connection point:
 - ID: mgmtVM-internal
 - Name: mgmtVM-internal
 - Type: VPORT
 - Add 2 interfaces to the VDU:
 - Interface 1:
 - Name: mgmtVM-eth0
 - Position: 1
 - Connection-point-type: EXTERNAL
 - EXTERNAL-CONNECTION-POINT-REF: vnf-mgmt
 - Virtual-interface:
 - Type: VIRTIO
 - Interface 2:
 - Name: mgmtVM-eth1
 - Position: 2
 - Connection-point-type: INTERNAL
 - INTERNAL-CONNECTION-POINT-REF: mgmtVM-internal
 - Virtual-interface:
 - Type: VIRTIO

Creating the VNF in the UI (3/4)

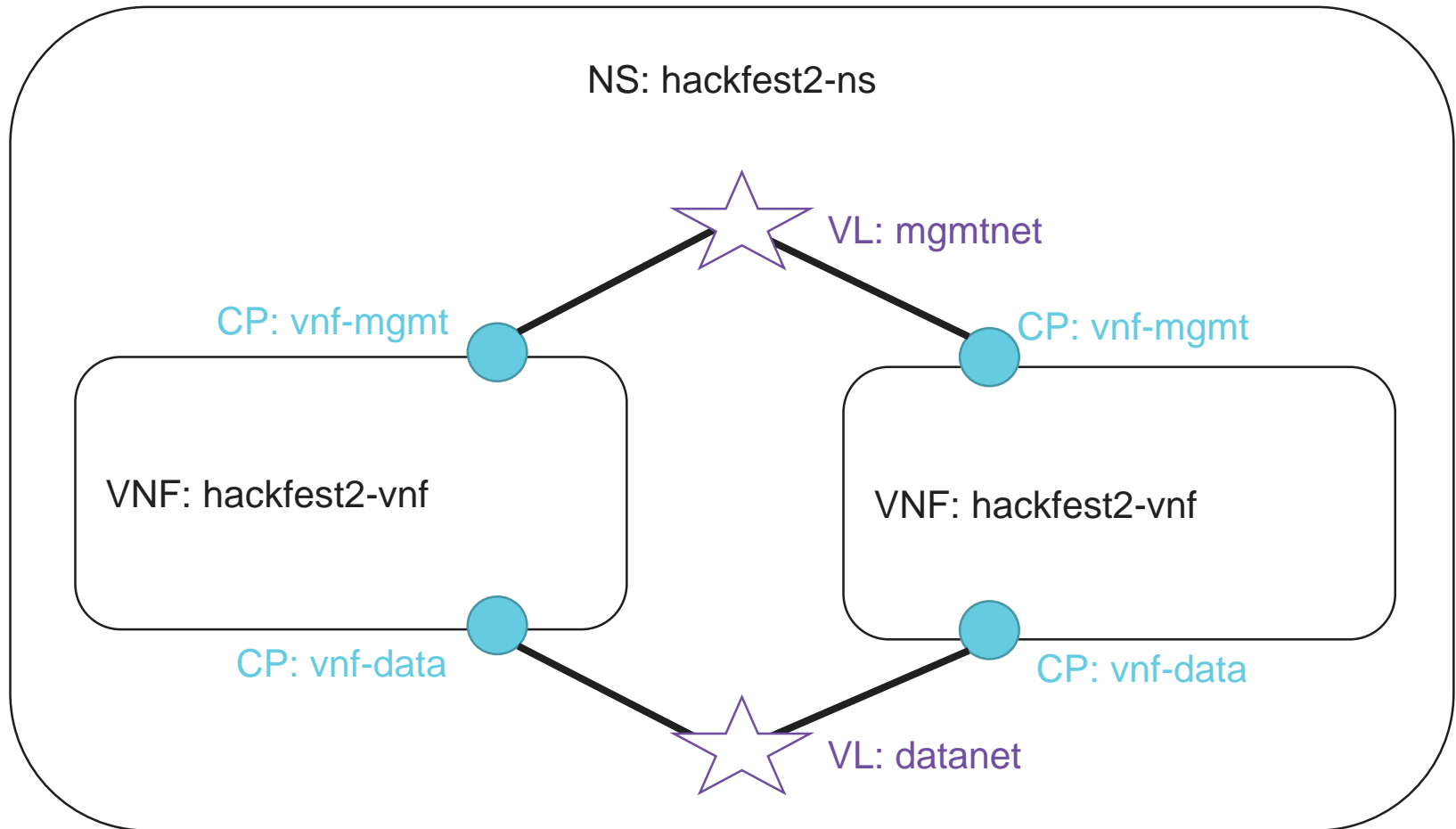
- Add VDU2 in the VNF
 - Name: dataVM
 - Image: US1604
 - VM Flavor:
 - VCPU COUNT: 1
 - MEMORY MB: 1024
 - STORAGE GB: 10
 - Add 1 internal connection point:
 - ID: dataVM-internal
 - Name: dataVM-internal
 - Type:VPORT
 - Add 2 interfaces to the VDU:
 - Interface 1:
 - Name: dataVM-eth0
 - Position: 1
 - Connection-point-type: INTERNAL
 - INTERNAL-CONNECTION-POINT-REF: dataVM-internal
 - Virtual-interface:
 - Type: VIRTIO
 - Interface 2:
 - Name: dataVM-xe0
 - Position: 2
 - Connection-point-type: EXTERNAL
 - EXTERNAL-CONNECTION-POINT-REF: vnf-data
 - Virtual-interface:
 - Type: VIRTIO

Creating the VNF in the UI (4/4)

- Connect the internal connection points of the VNF to the VL:
 - mgmtVM-eth1 → internal
 - dataVM-eth0 → internal

- Click on UPDATE

NS diagram



Creating the NS in the UI(1/2)

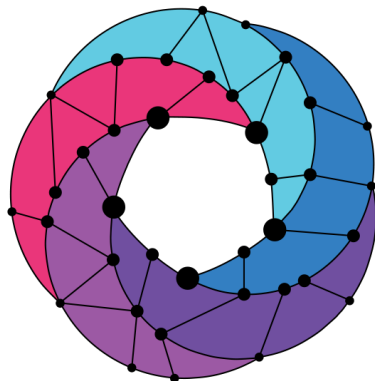
- Go to the catalog
 - Add NSD
 - Name: hackfest2-ns
 - Add 2 VNFs (hackfest2-vnf) to the NS by drag and drop
 - Add first VLD:
 - VLD1:
 - name (optional): mgmtnet
 - TYPE: ELAN
 - MGMT NETWORK: True
 - INIT PARAMS
 - vim-network-ref
 - VIM NETWORK NAME: mgmt
- <- This is to have a default mapped VIM network

Creating the NS in the UI(2/2)

- Add second VLD:
 - VLD2:
 - name (optional): datanet
 - TYPE:ELAN
 - MGMT NETWORK: False (default)
- Connect VNF Connection Points to the VLs:
 - vnf-mgmt → VL:mgmtnet
 - vnf-data → VL:datanet
- Click on UPDATE

Deploying NS in the UI

- Go to Launchpad > Instantiate
- Select hackfest2-ns and click Next
- Complete the form
 - Add a name to the NS
 - Select the Datacenter where the NS will be deployed
 - No SSH key should be added (the image doesn't have cloud-init enabled)
- Go to the dashboard to see the instance and get the mgmt IP address of each VNF
- Connect to each VNF:
 - `ssh osm@<IP>` (pwd: osm4u)



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