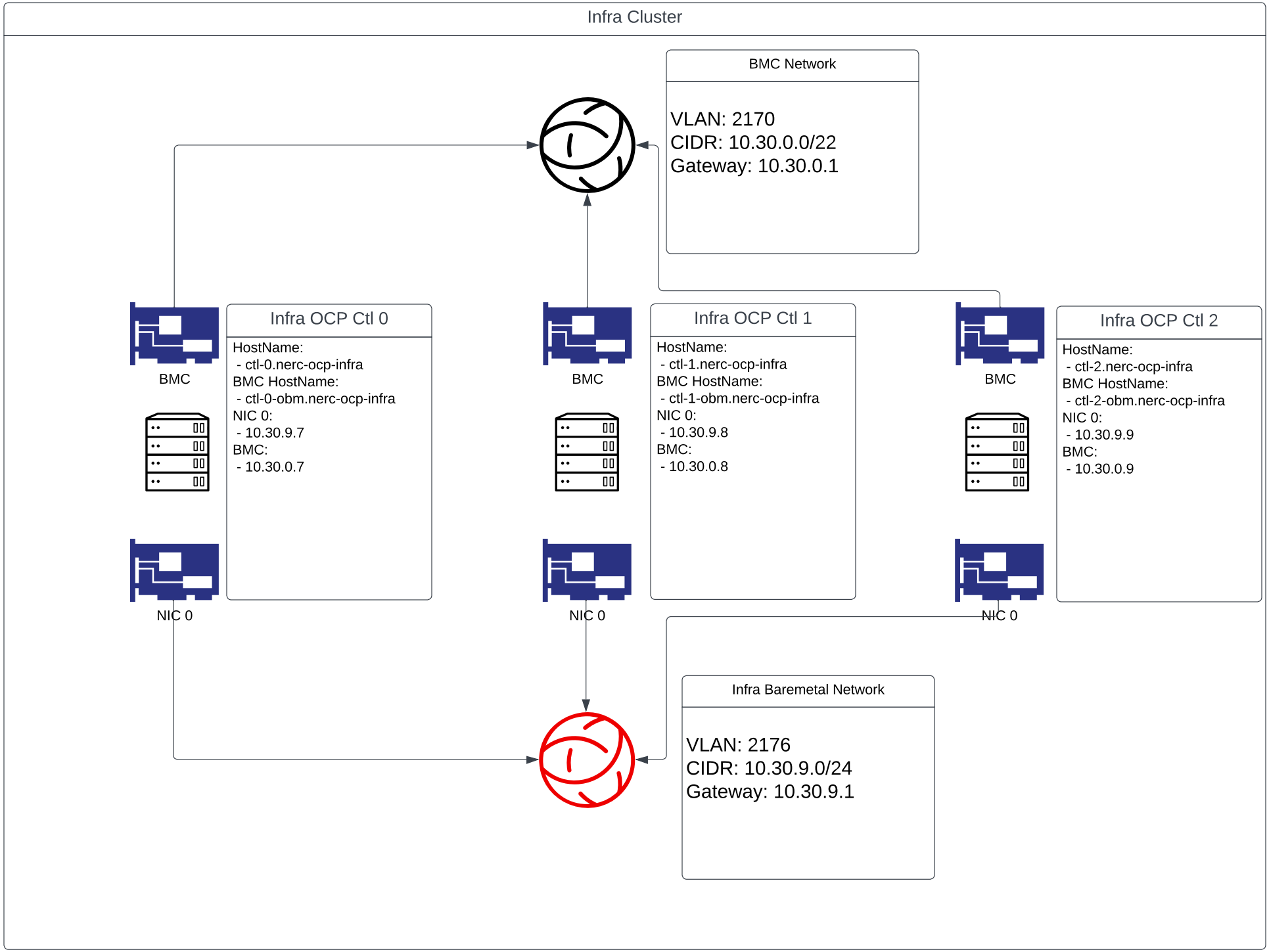

Infra Cluster
BMC Network
VLAN: 2170
CIDR: 10.30.0.0/22
Gateway: 10.30.0.1
BMC
Infra OCP Ctl 0
HostName:
- ctl-0.nerc-ocp-infra
BMC HostName:
- ctl-0-obm.nerc-ocp-infra
NIC 0:
- 10.30.9.7
BMC:
- 10.30.0.7
NIC 0
BMC
Infra OCP Ctl 1
HostName:
- ctl-1.nerc-ocp-infra
BMC HostName:
- ctl-1-obm.nerc-ocp-infra
NIC 0:
- 10.30.9.8
BMC:
- 10.30.0.8
NIC 0
BMC
Infra OCP Ctl 2
HostName:
- ctl-2.nerc-ocp-infra
BMC HostName:
- ctl-2-obm.nerc-ocp-infra
NIC 0:
- 10.30.9.9
BMC:
- 10.30.0.9
NIC 0
Infra Baremetal Network
VLAN: 2176
CIDR: 10.30.9.0/24
Gateway: 10.30.9.1

Infra Cluster

Details

URL:
https://console-openshift-console.apps.nerc-ocp-infra.rc.fas.harvard.edu/
API: https://api.nerc-ocp-infra.rc.fas.harvard.edu:6443

Cluster Applications

ACM

URL: https://multicloud-console.apps.nerc-ocp-infra.rc.fas.harvard.edu/
API: https://api.nerc-ocp-infra.rc.fas.harvard.edu:6443

ArgoCD

URL: https://openshift-gitops-server-openshift-gitops.apps.nerc-ocp-infra.rc.fas.harvard.edu/

Grafana

URL: https://grafana-openshift-monitoring.apps.nerc-ocp-infra.rc.fas.harvard.edu/

Prometheus

URL: https://prometheus-k8s-openshift-monitoring.apps.nerc-ocp-infra.rc.fas.harvard.edu/

Vault

URL: https://vault-ui-vault.apps.nerc-ocp-infra.rc.fas.harvard.edu/

Infra Cluster

Vault

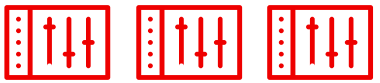
argo

Grafana

Prometheus

RED HAT OPENSHIFT ACM

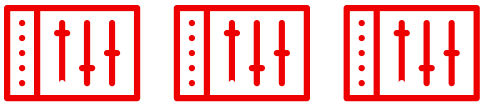
Control Plane



Cluster name: nerc-ocp-infra
Environment: infrastructure/ACM
Control Nodes: 3 (Scheduleable)
Worker Nodes: 0

Production Cluster

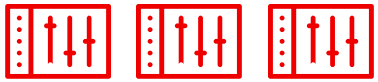
Control Plane



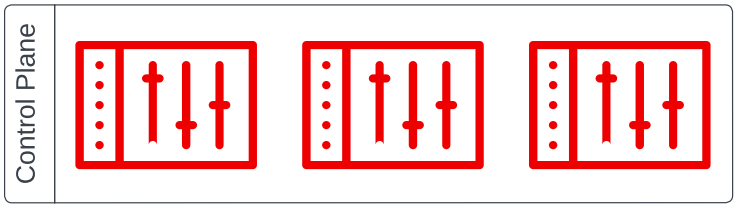
Cluster name: nerc-ocp-prod
Environment: Production
Control Nodes: 3
Worker Nodes: 86

Test Cluster

Cluster name:
nerc-ocp-test
Environment:
test
Control Nodes:
3
Worker Nodes:
10



Production Cluster



Cluster VLAN: 2172
Cluster CIDR: 10.30.6.0/23
Gateway: 10.30.6.1

Storage VLAN: 2173
Storage CIDR: 10.30.10.0/23
Gateway: 10.30.10.1

Cluster Limits

Theoretical limits:
Based on the amount of memory and number of cpu cores available in the control plane the production cluster should be able to handle over 500 worker nodes.

Cluster Limits

Tested limits:
Red Hat has previously installed and operated a bare metal cluster with 117 worker nodes.

For more info on scaling process and recommendations see:
https://github.com/OCP-on-NERC/docs/blob/main/cluster_scaling_and_load_testing.md