# **DLF** Networking

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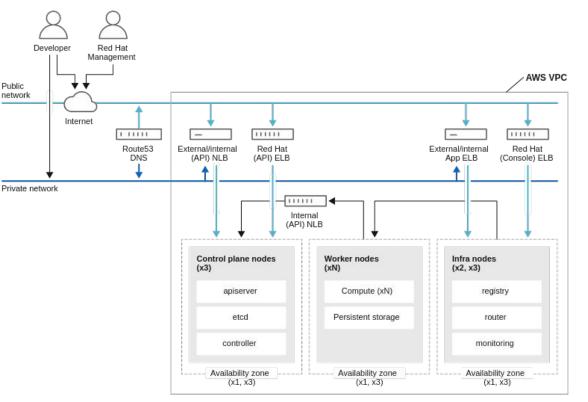
# **EMCO on ROSA Clusters**

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### **ROSA or Red Hat Openshift on AWS**

Public

- ROSA provides cli tool for creation and deletion of clusters
- Connects with AWS and allocates resources to create OpenShift clusters.
- All the security and resilience benefits of Openshift Cluster are available.
- Multi-AZ implementation will make use of three Availability Zones, with a public and private subnet in each AZ
- Application workloads will be running in all three AZs for resilience, this will translate to a minimum of nine EC2 instances running within the customer account. Three Master nodes, three infrastructure nodes, and assuming at least one Worker in each AZ, three Workers.



TLF

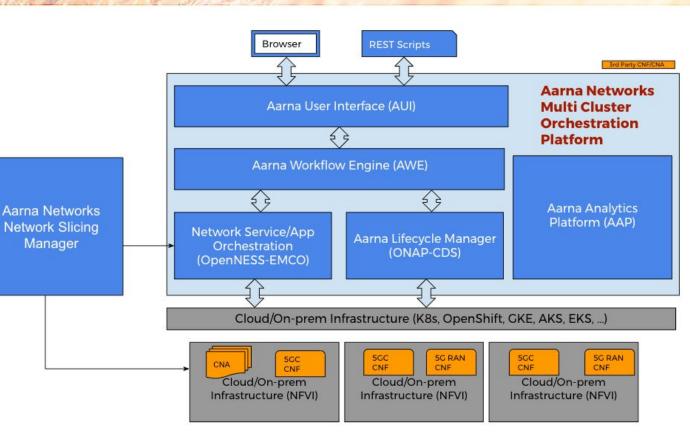
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## **EMCO** Deployment



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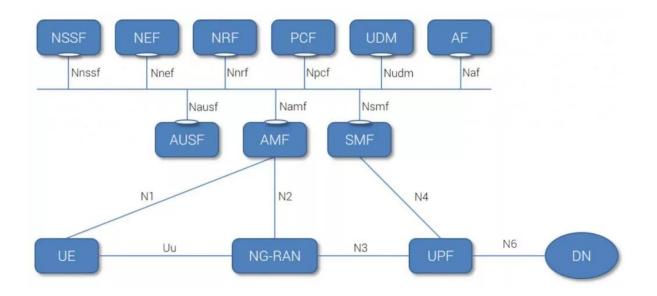
- EMCO (as part of Aarna's AMCOP distribution) deployed using operator on the ROSA Cluster
- We use the Multiple Availability Zones on ROSA for resilience
- A target cluster on AWS is created for deploying Free5G
- Using AMCOP GUI we deploy Free5GC pods on target cluster.



#### **Free5G Core**



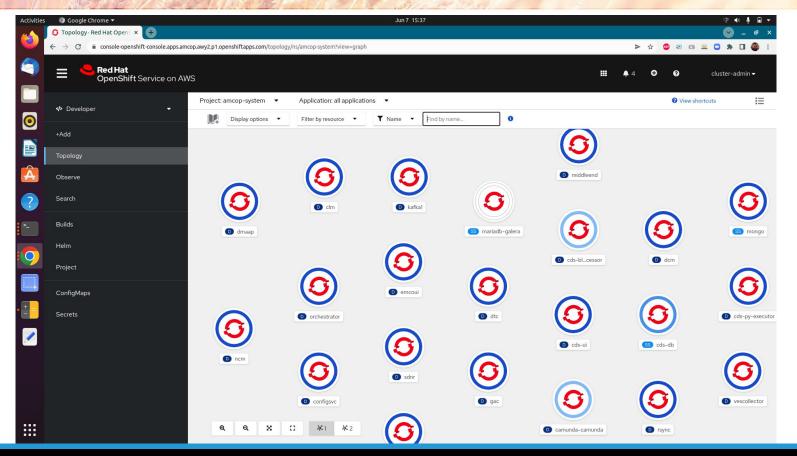
- Deployed on the K8 Cluster using EMCO
- Testing done using UE simulator for Free5G



### **ROSA Management Console**



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# Demo Video

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