ArgoCD ApplicationSet Controller

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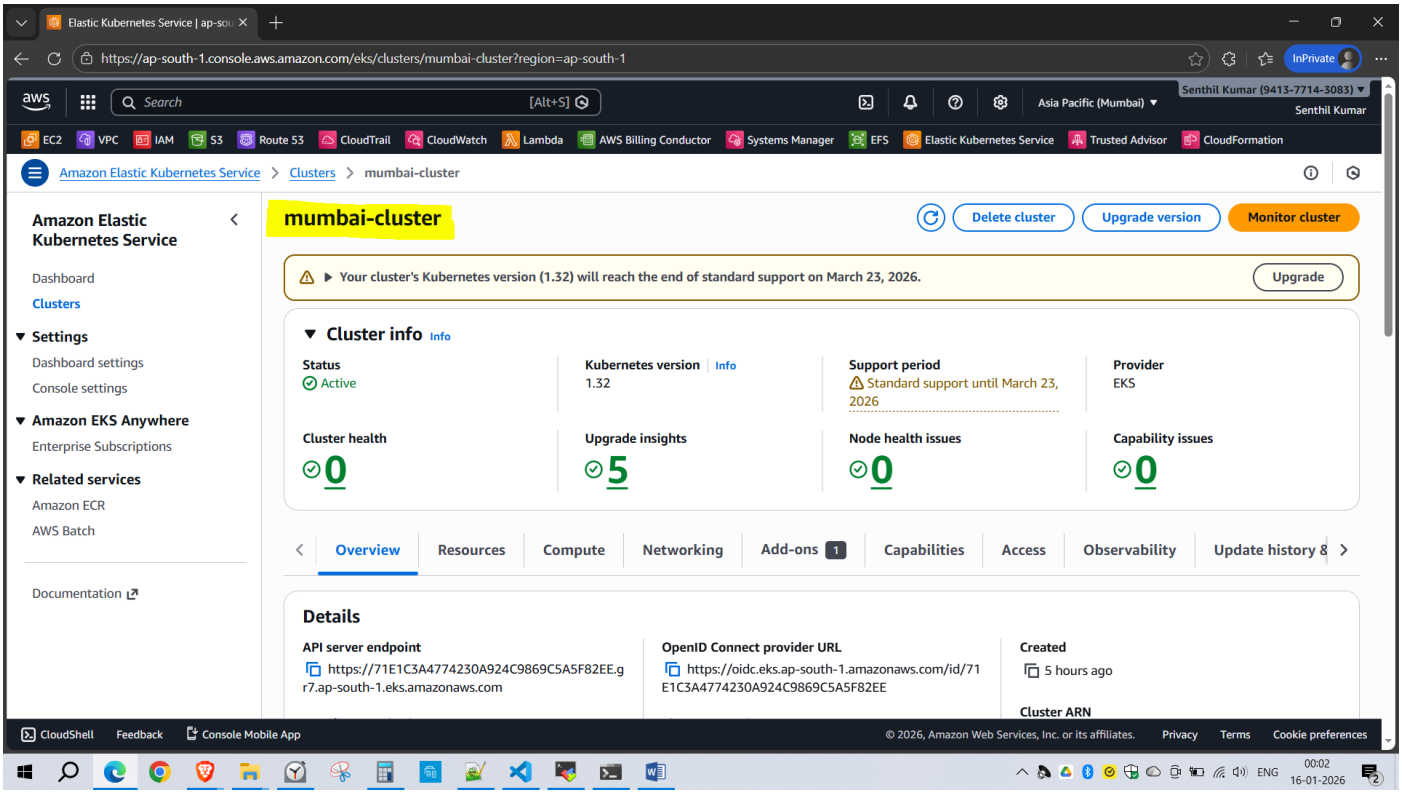
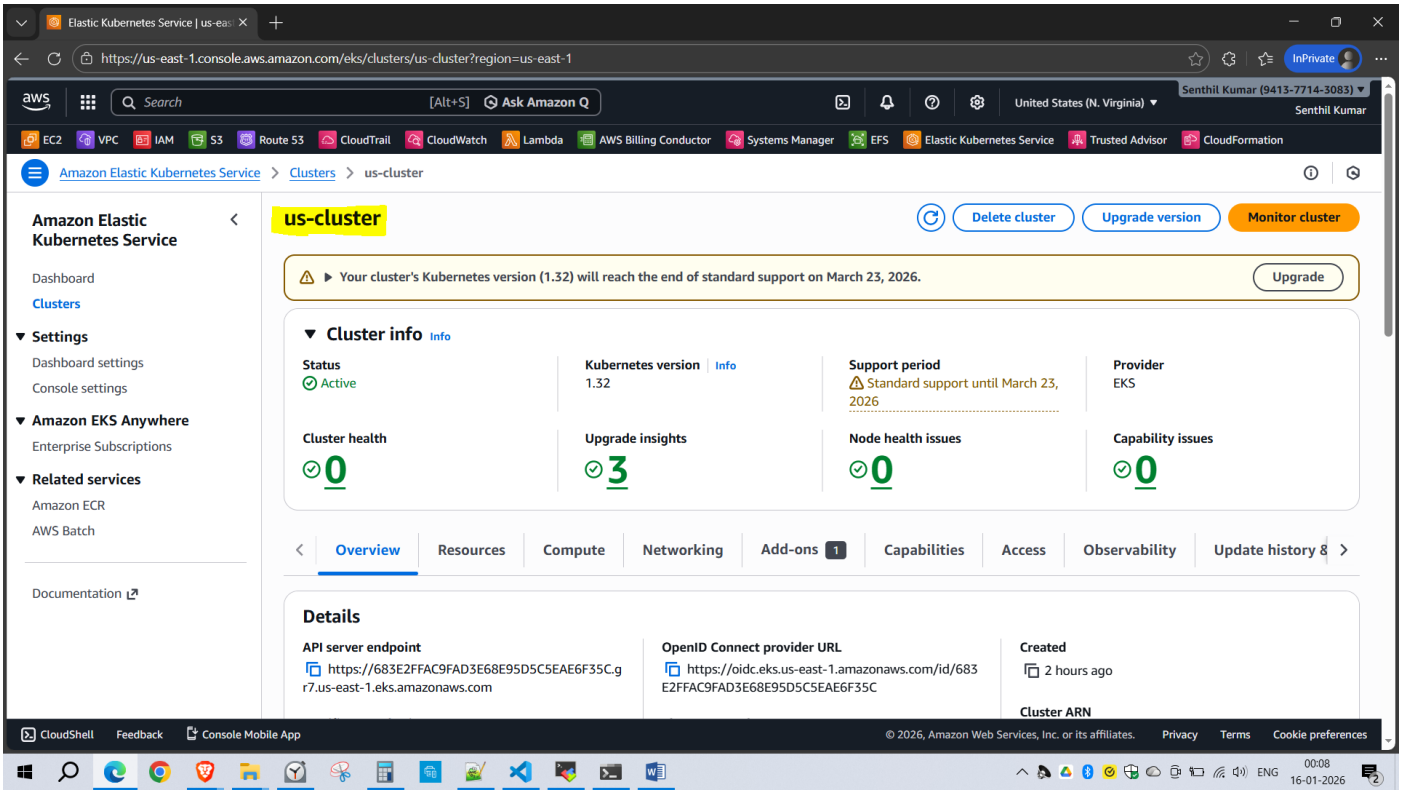
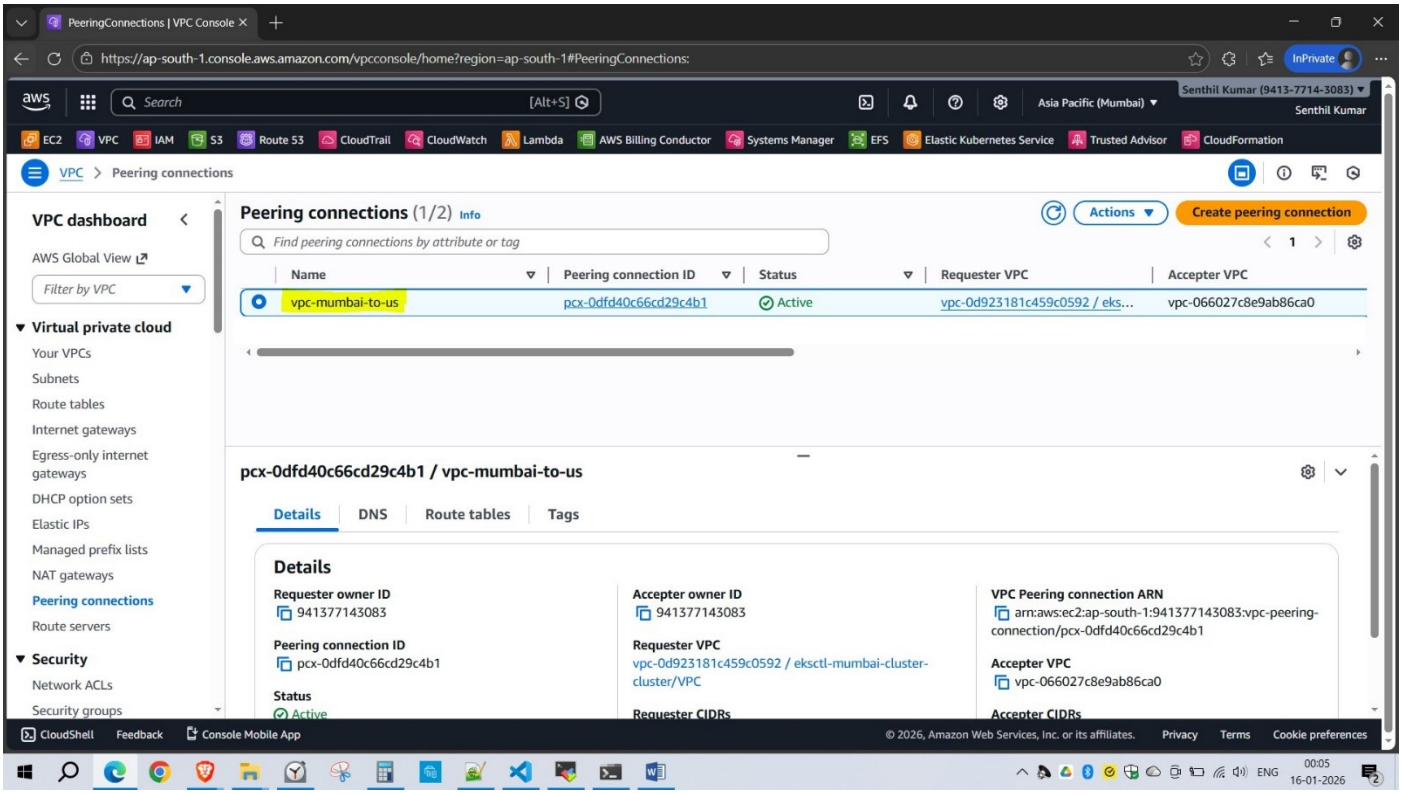
Designed and implemented a multi-cluster Kubernetes setup by provisioning Amazon EKS clusters in both Mumbai and US regions

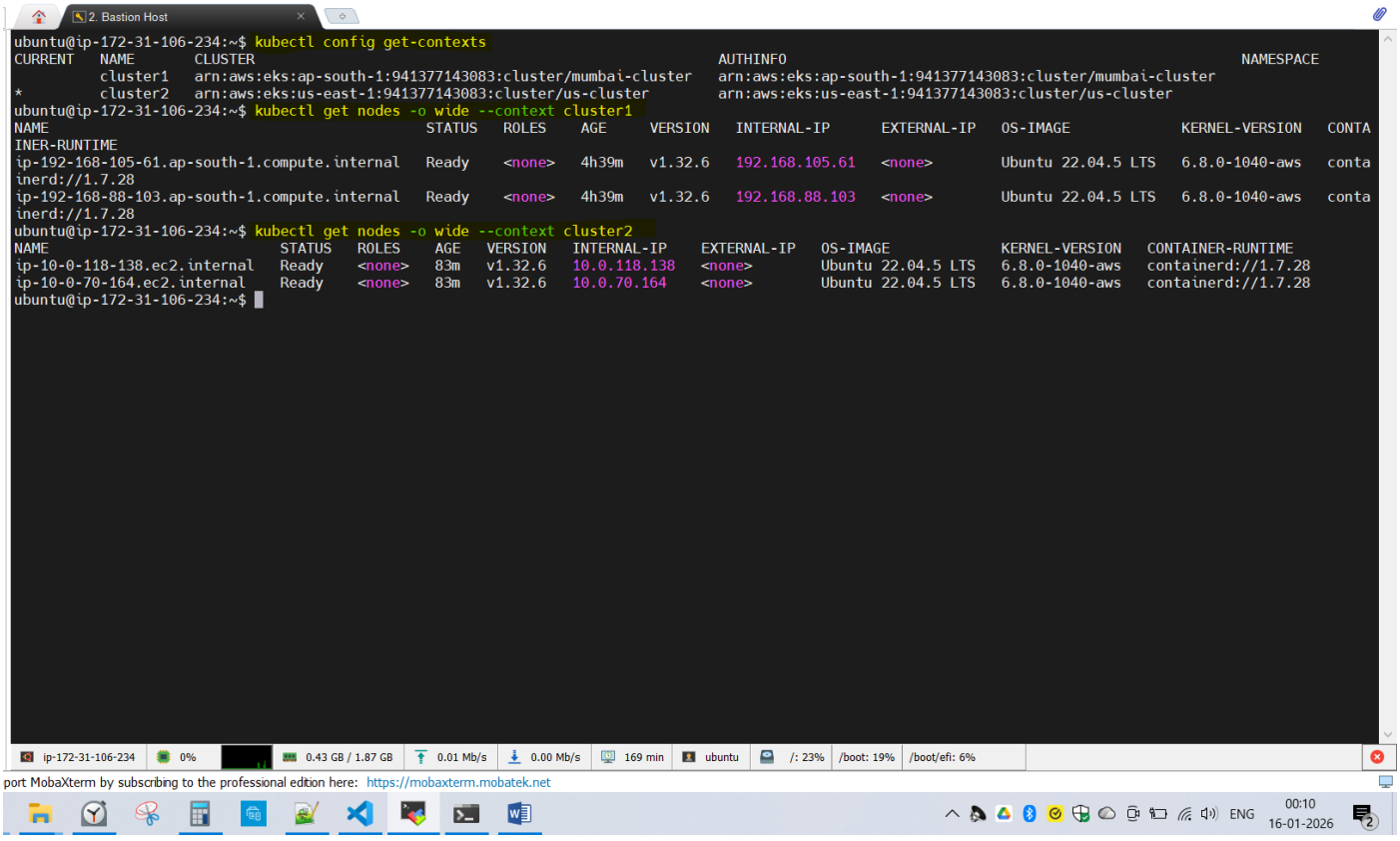




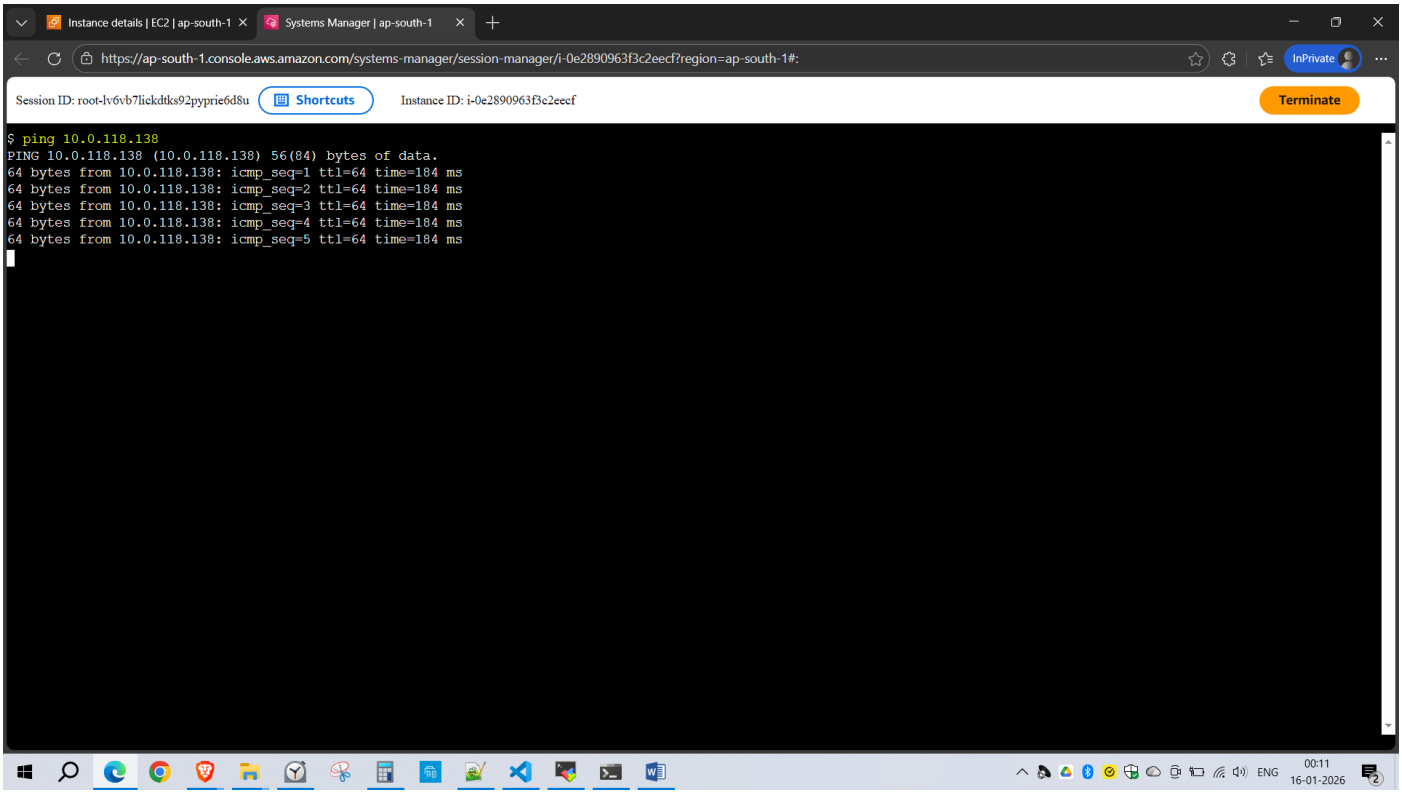
Established VPC peering between two EKS clusters to enable secure inter-cluster communication



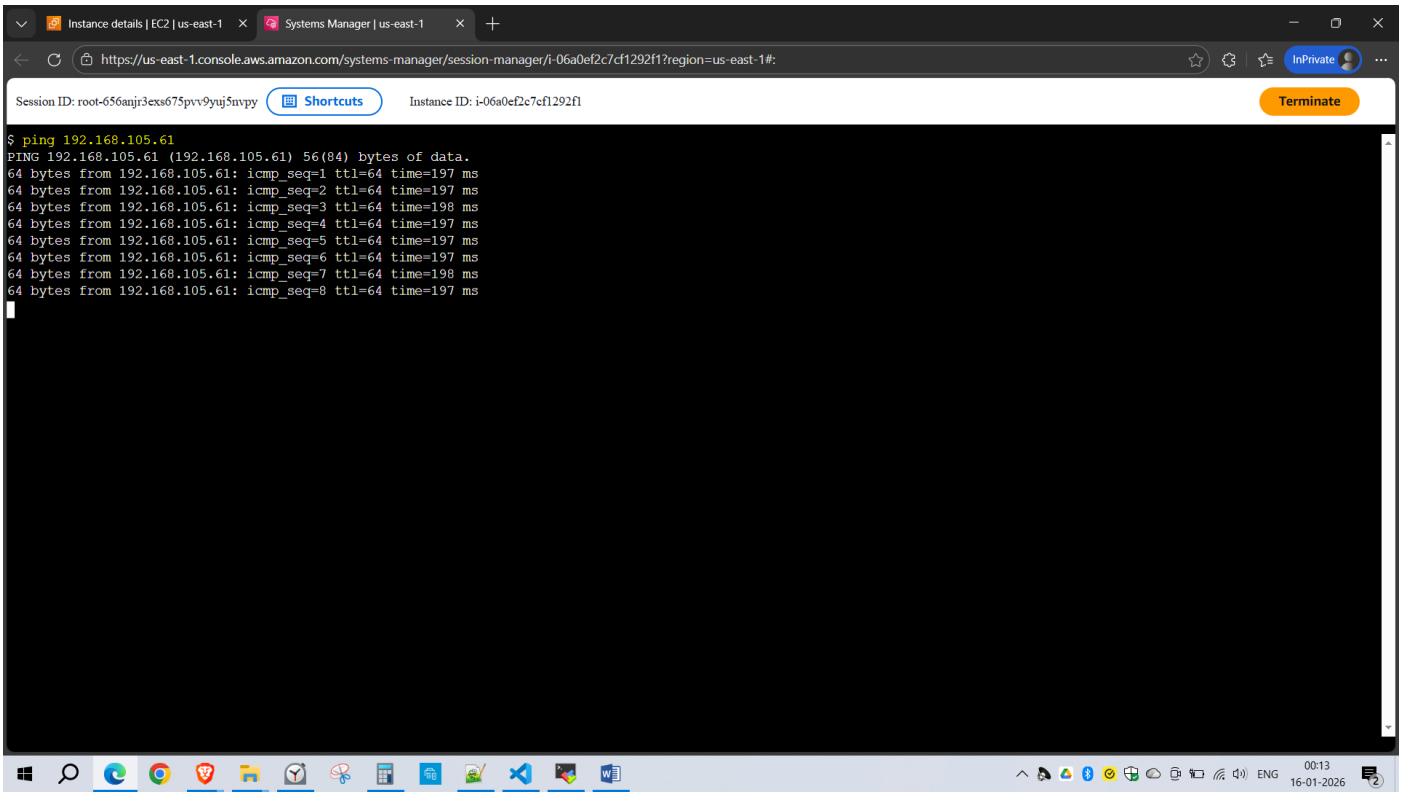
Fetched node information from both EKS clusters through a secure bastion host



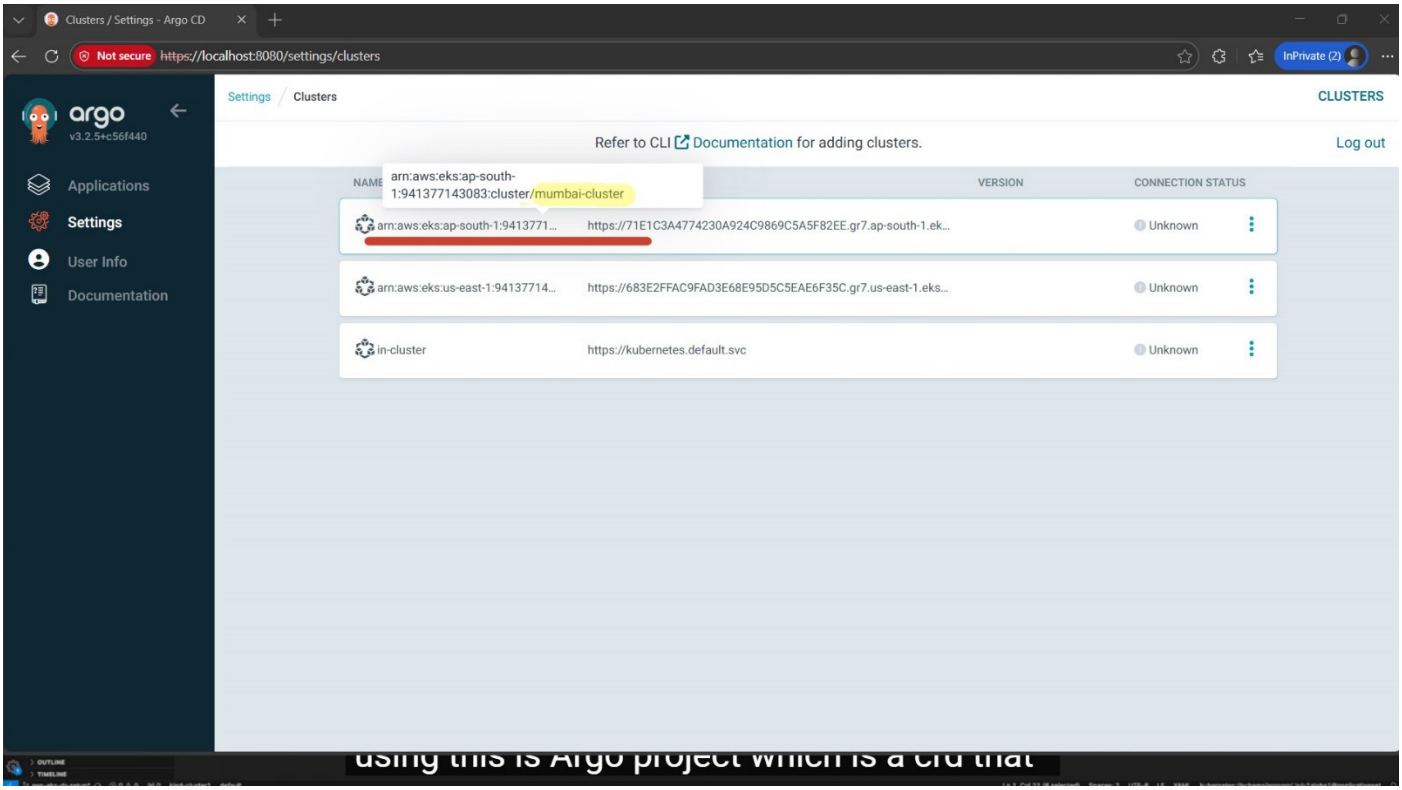
Validated inter-cluster communication by performing successful ping tests from the Mumbai cluster to US cluster via VPC peering



Performed reverse connectivity tests by pinging Mumbai cluster from US cluster to validate bidirectional communication over VPC peering



Added and configured both EKS clusters in ArgoCD to enable multi-cluster application deployment and management



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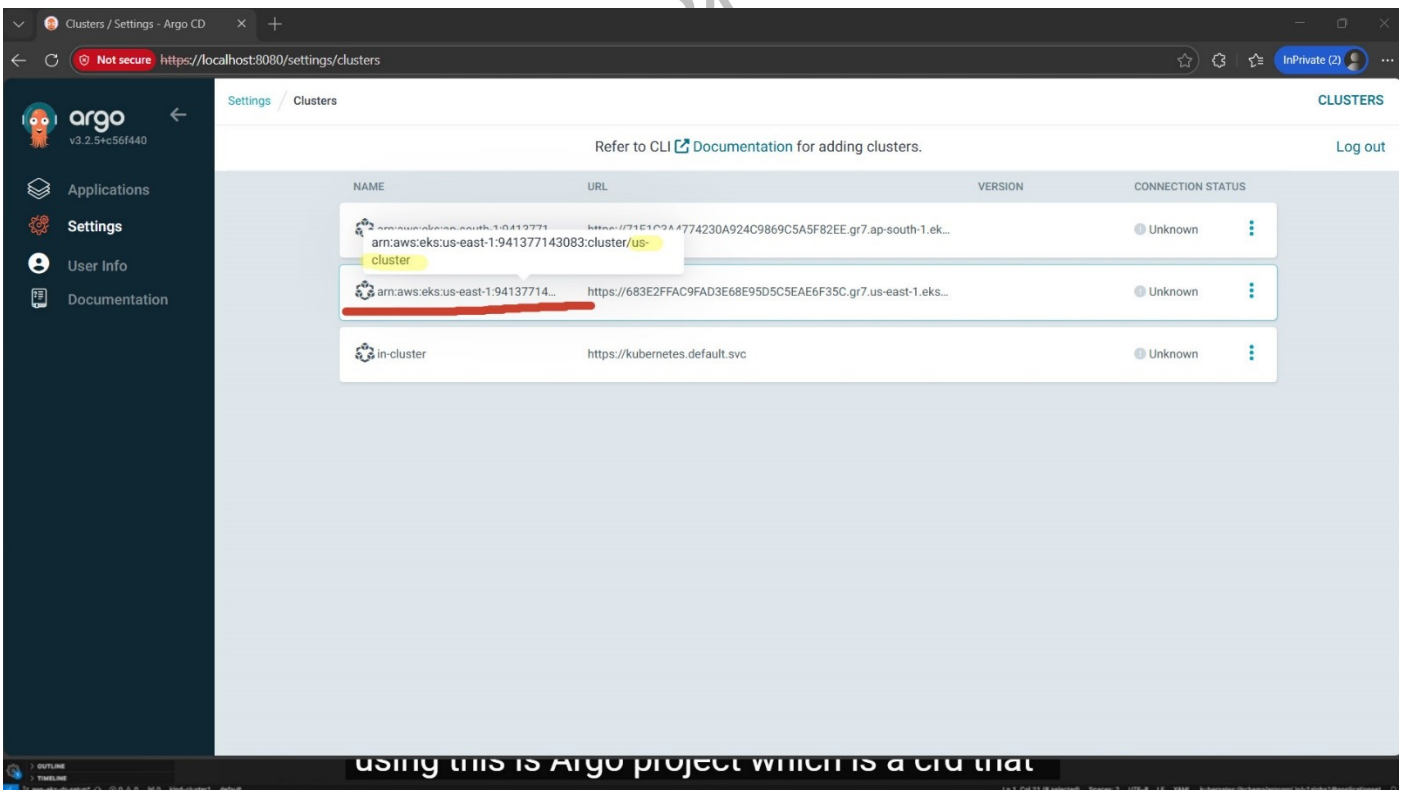
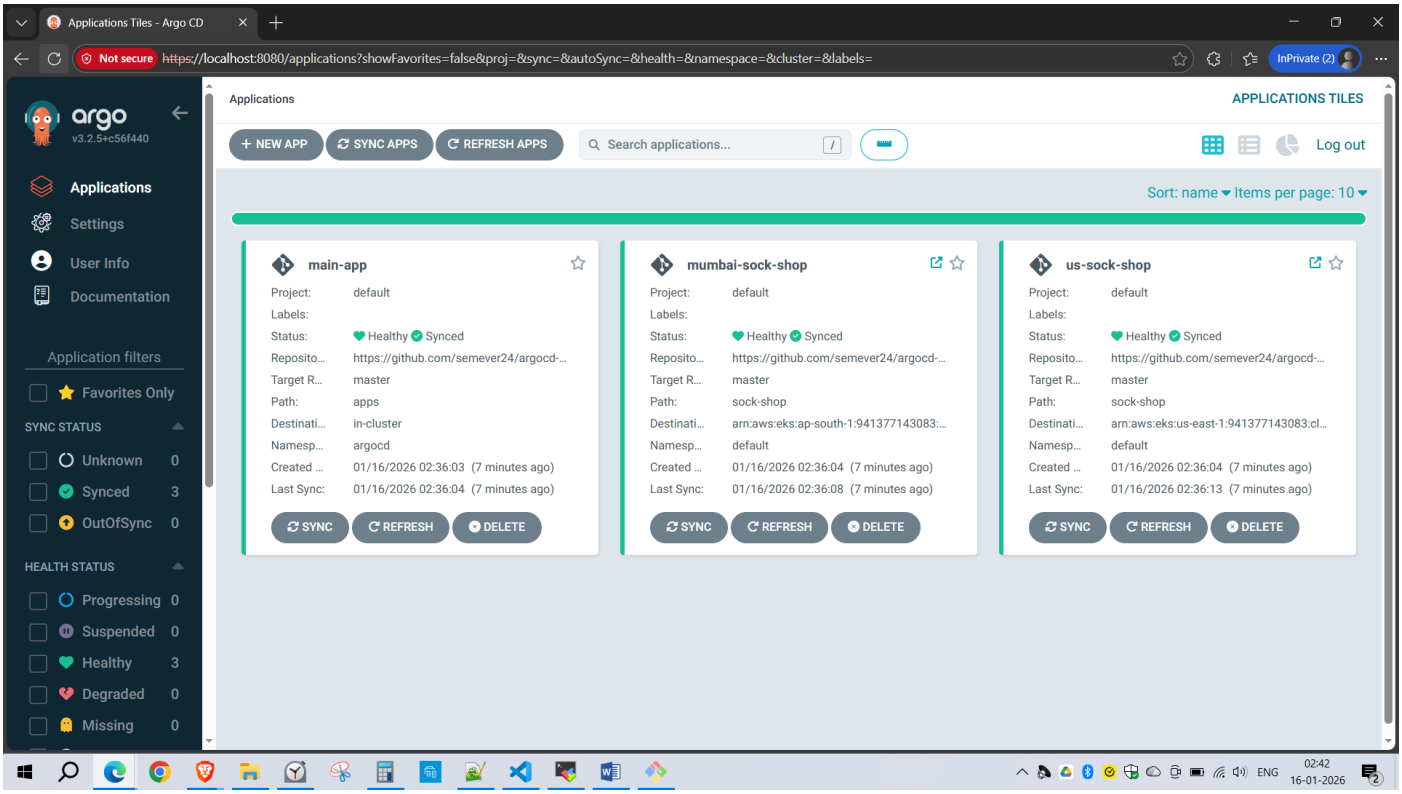


Executed application deployments to two EKS clusters using a centralized control (main) cluster



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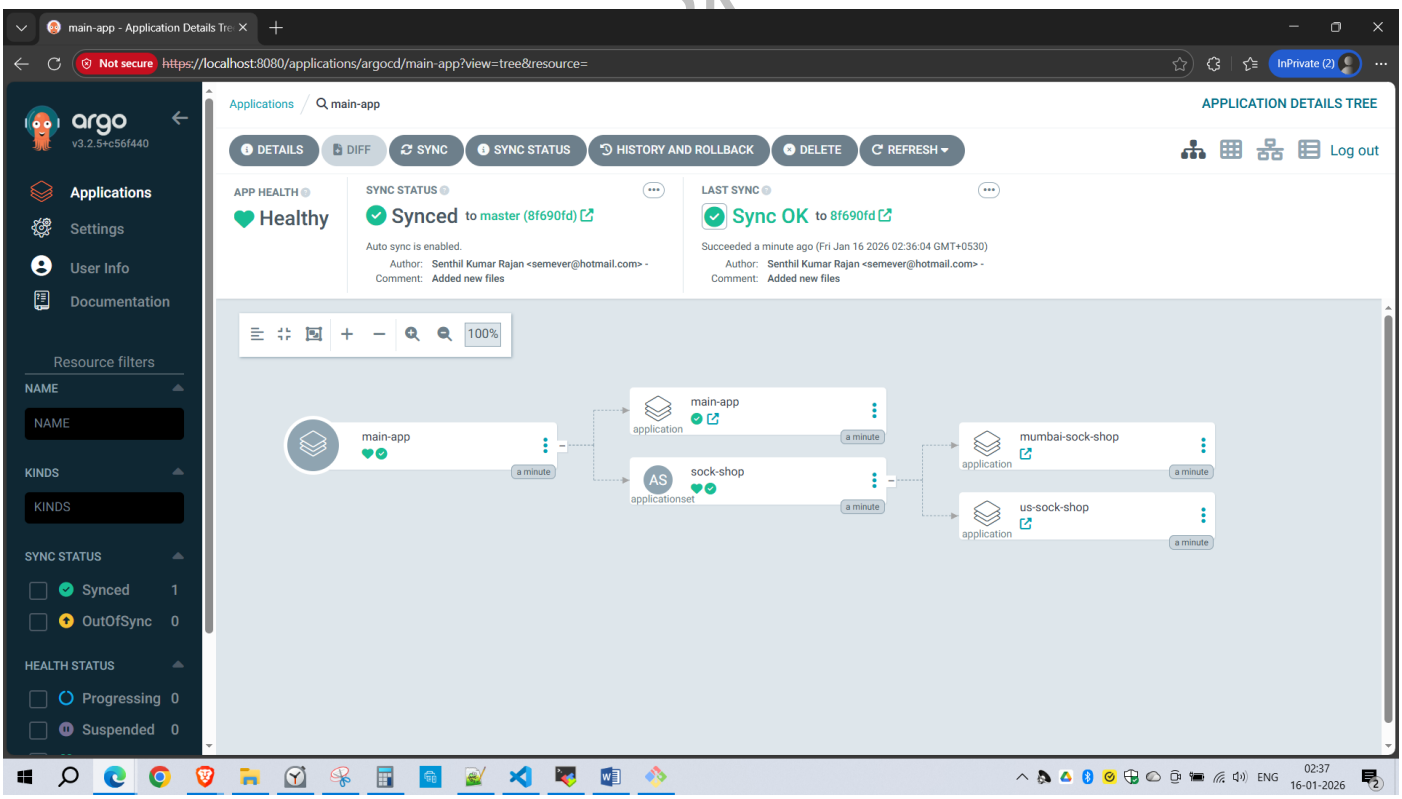
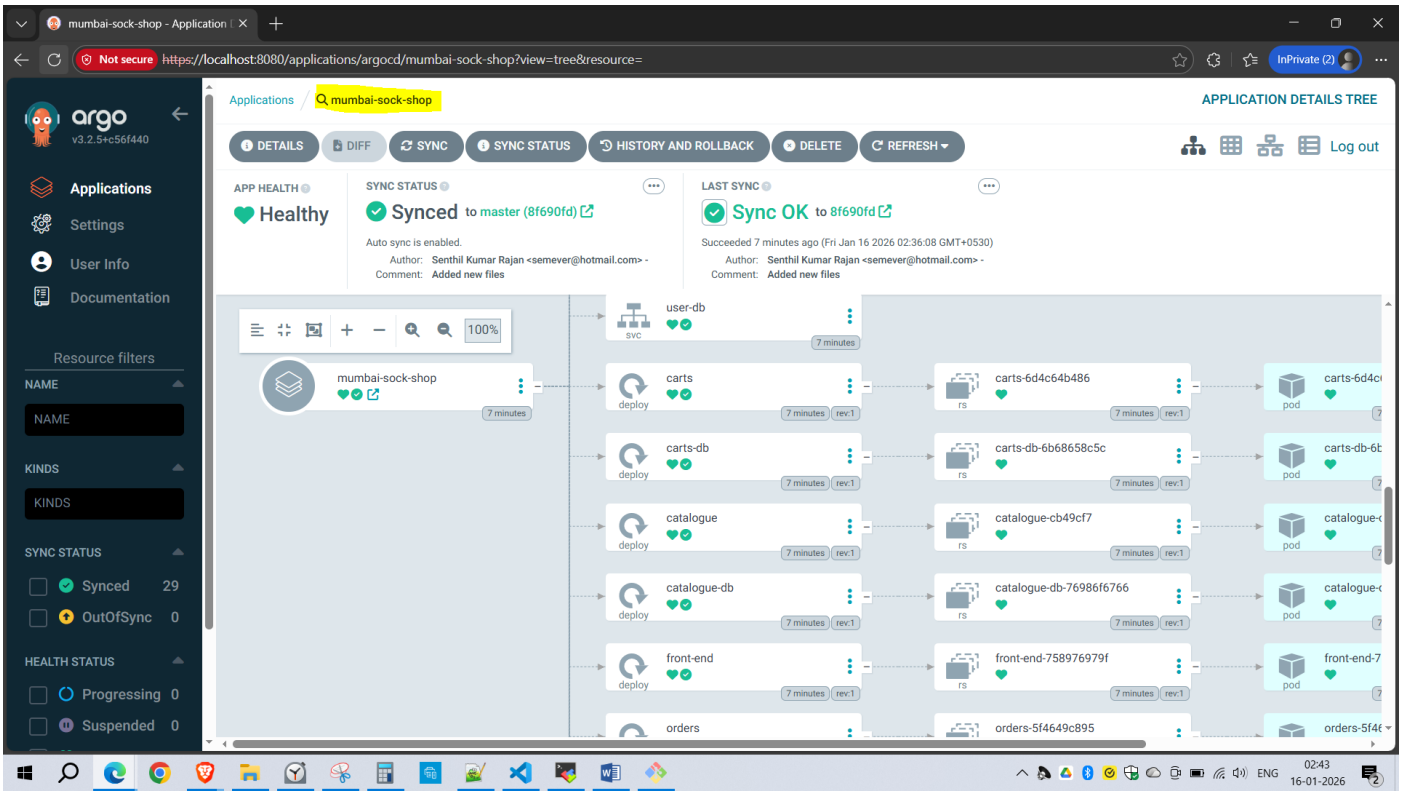
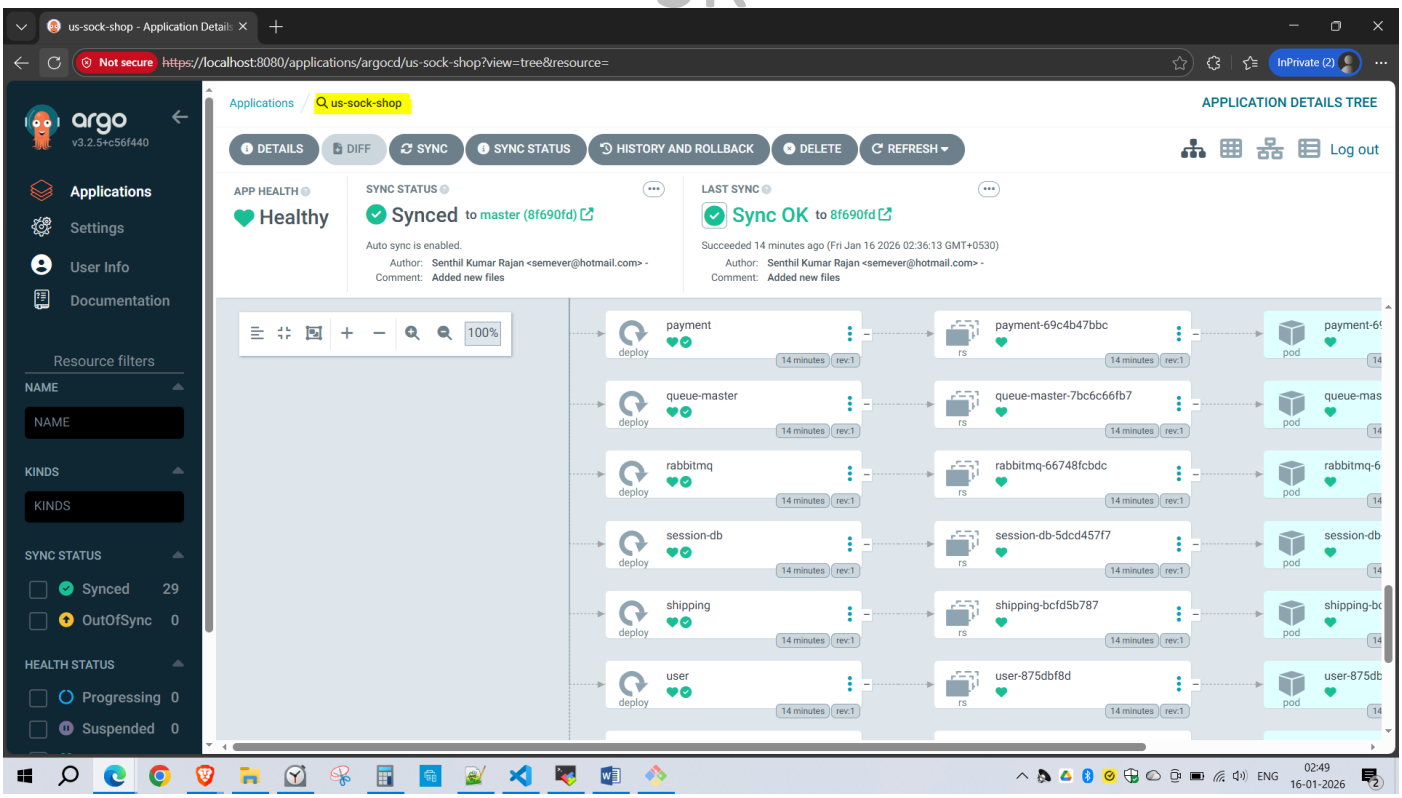
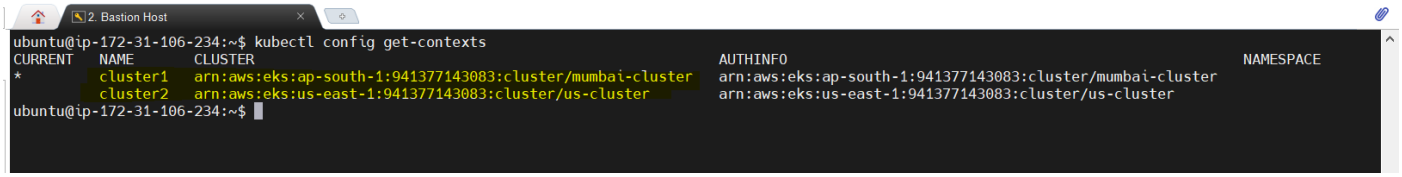


Verified live health and sync status of applications deployed on Mumbai cluster

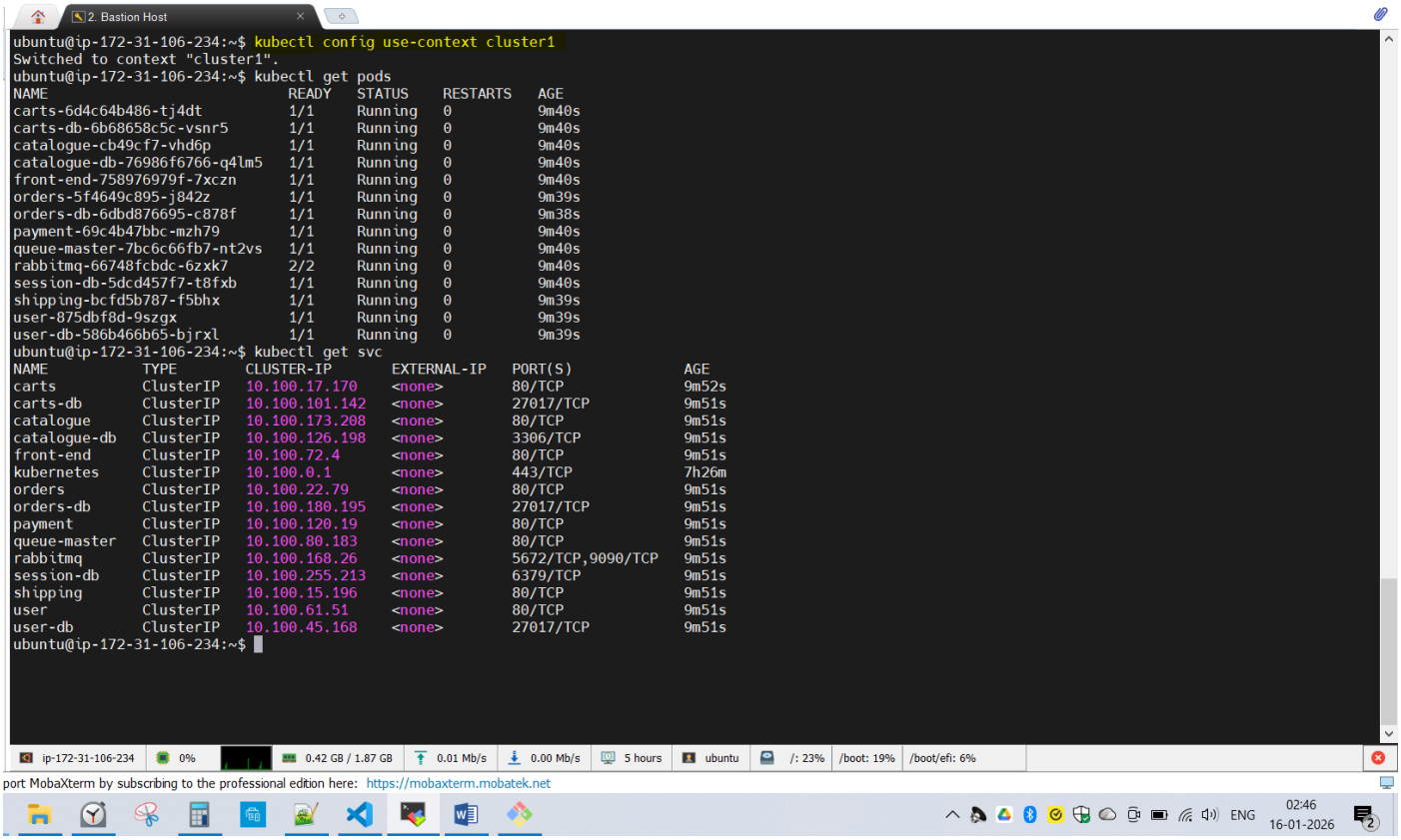


Verified live health and sync status of applications deployed on US cluster

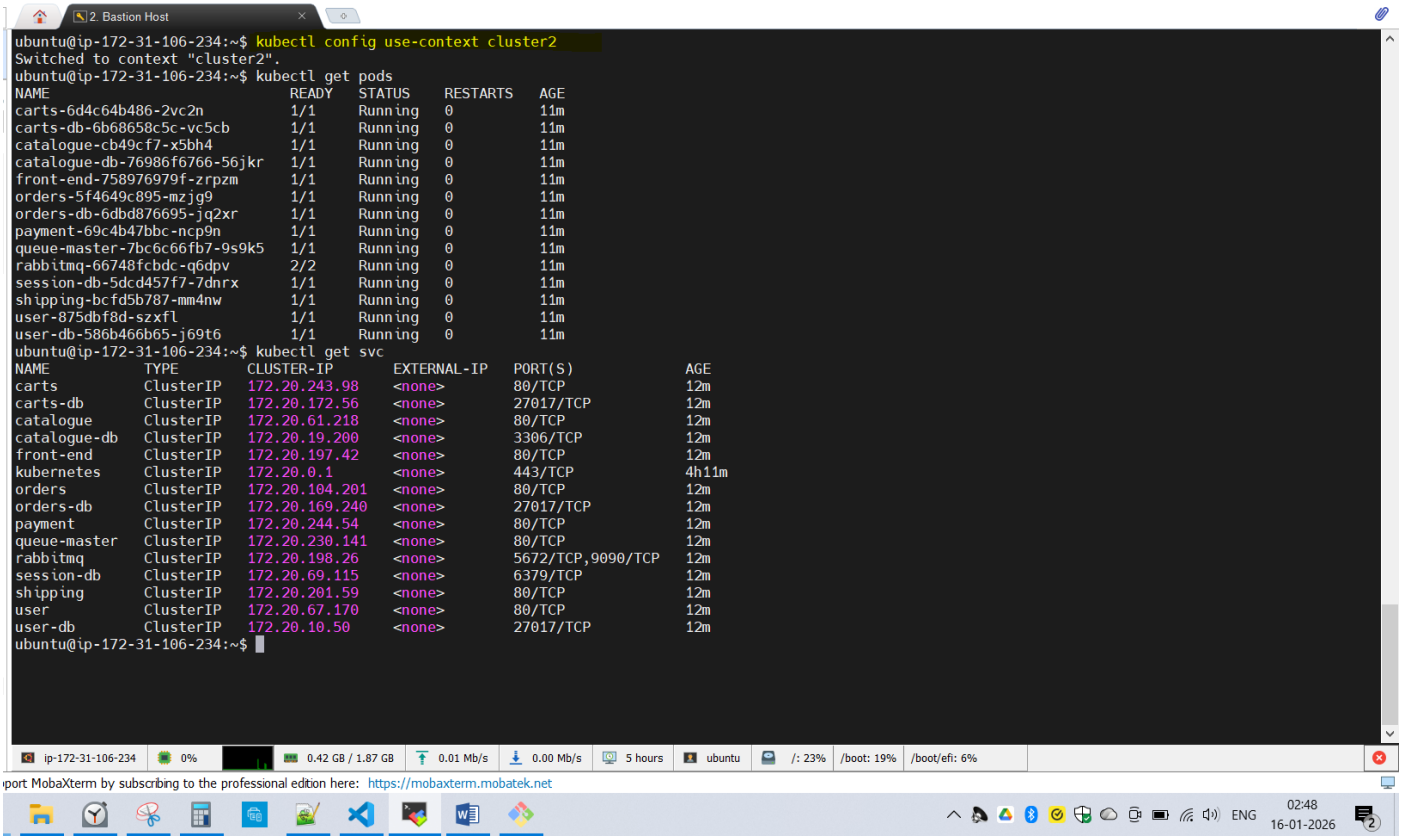




Ensured all application resources were correctly deployed and managed in Mumbai cluster



Ensured all application resources were correctly deployed and managed in US cluster



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