Modernize Applications with Microservices Architecture using Amazon Elastic Kubernetes Service (Amazon EKS)

Integrate Amazon EKS with VMware Cloud on AWS and use AWS DevOps tools to accelerate application modernization.

1. The Elastic Network Interface is automatically attached to the EC2 bare metal (ESXi) hosts in VMware Cloud on AWS during the software-defined data center (SDDC) provisioning.

2. Provision fully managed Amazon EKS clusters for different environments (dev/test/production).

3. Use tools such as AWS App2Container (A2C) to accelerate refactoring/rearchitecting applications into containerized microservices, and use Amazon EKS to manage and automate the testing and deployment of container workloads.

4. Transform and containerize legacy systems to modern applications with minimum disruptions, while keeping the existing database tier running on VMware Cloud on AWS to avoid the complexity and delay for database migrations.

5. Network Load Balancer integrates with Kubernetes Ingress controller, providing a secure and consistent approach for exposing applications.

6. Amazon Route 53 resolves incoming requests to the Network Load Balancer in the primary AWS Region.

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