AKS Deployment Automation

CASE STUDY

PARTNER:
Xoriant Corporation

WEB SITE: www.xoriant.com

LOCATION: Sunnyvale, California

ORG SIZE: 4000+ employees

DYNAMICS PARTNER PROFILE:

Xoriant is a Silicon Valley headquartered company focused on product engineering, software development and technology consulting services. Xoriant as Azure Cloud Gold Partner brings expertise, experience, industry best practices, and Pre-packaged ready to use IaC solution for Azure cloud.

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Azure Kubernetes Cluster Deployment Automation

SITUATION

- The customer, one of the big audit firms, has a CRM application running on Kubernetes on-premise

- The customer wanted to migrate from on-prem Kubernetes to Azure Kubernetes cluster services and automate the deployment of Azure infrastructure along with AKS cluster

SOLUTION

- Xoriant automated the Azure infrastructure deployment using Terraform and Jenkins tools

- Developed Terraform modules that deploys & configures - App gateway, AKS cluster, Key vault, PostgreSQL, API mgmt., EventHub, cosmos DB and Azure monitor

- Terraform modules developed are being used for Dev, Test and Prod environments

BENEFITS

- Consistency in infrastructure deployments

- 80% efforts savings through automation of the process

- Human error avoidance

- Flexibility in deployment and changes to the services

Deploy Azure and AKS Infrastructure
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Infrastructure as Code

SITUATION

- The customer, one of the big audit firms, has a CRM application running on Kubernetes on-premise
- Reduce time to Adopt Azure Cloud across business
- Deploy and manage quickly to Azure cloud
- Ensure visibility, consistency and uniformity across Azure ecosystem
- Ensure consistency and uniformity, with speed of deployments for Azure infrastructure

SOLUTION

- Built parameterized terraform templates to deploy Azure and AKS Infrastructure and monitoring for the Azure ecosystem with parameters to ensure reusability
- Built parameterized reusable terraform templates to deploy Azure security policy via Azure DevOps and replicate via Jenkins for On-Prem.
- Deployments were written for customer in Jenkins and Azure DevOps for reusability
- Built power-shell scripts (Windows) and ansible play-books (Linux) to orchestrate the hardening of systems on Azure VMs deployed through Azure DevOps

BENEFITS

- Quicker adoption of Azure Cloud
- Consistency in infrastructure deployments
- Flexibility in deployment and changes to the services