

CASE STUDY



PARTNER:

Xoriant Corporation

WEB SITE: www.xoriant.com

LOCATION: Sunnyvale, California

ORG SIZE: 4000+ employees

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 MaC solution for Azure cloud.

SRE Engagement using MaC

SITUATION

- The customer, a leading SaaS provider for city and state governments was facing challenges with scaling and response times significantly driving negative NPV with customers
- There were stability concerns due to noisy neighbor outages on database pool and client was unable to maintain 99.9% SLA

SOLUTION

- Used Iac, Mac, SaC for Azure, reviewed database design and updated the indexes necessary for performance
- Updated the application to use Kubernetes and removed unwanted libraries from container
- Updated containers to use role-based access to access DB
- Eliminated network pool contentions of frontend using load balancer and ingress controller
- Enabled HPA for autoscaling based on relevant parameters such as CPU and memory utilization, and configured pod anti-affinity to ensure the correct pod placement is achieved
- Updated application code to change to parameterized queries and updated certain queries for optimization to reduce resource utilization on DB.
- Optimized DB temp space utilization
- Environment segregation and procedural changes for onboarding to eliminate noisy neighbor.

BENEFITS

- Achieved SLA of 99.96%
- Lower response times
- Optimal resource utilization
- 30% net increase in NPV

DevOps/DevSecOps Services

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DevOps / DevSecOps using MaC

SITUATION

- There was a need to manage 7000+ Internal DNS records with load balancing and weight for a leading AdTech firm
- Automate deployments of code CI/CD pipes
- Quick commissioning of bidders. Adservers, Hadoop nodes, and relevant analytics and revenue recognition services as needed
- The firm had footprint of 11 datacenters with 5200+ systems and 60+ PB of Hadoop data

SOLUTION

- Architected and deployed 70% automated DevOps lifecycle using homegrown CMDB, RoR, Puppet libraries for CMDB, Puppet, Heira, Git, Gerrit, Jenkins, SonarQube, Selenium SE, Opengrok, Run Deck, Nagios, Graphana, Graphite, ELK, Jira, Fisheye
- Docker, Kubernetes, Azure MaC, python Fabric (for BareMetal/VM) Provisioning
- Nagios, Nagger, Catchpoint, New Relic for Monitoring and Rundeck to automate workflows for incident remediations
- HashiCorp Vault for authentication and session management
- ELK for log analytics and SIEM
- Dynamic updates to DNS managed through Custom Functions in Ruby, invoked by puppet runs on DNS servers
- Fisheye and Jira metrics for change management compliance
- Grafana for server and service metrics

BENEFITS

- MTTR Reduced by 70%
- Server and Service metrics dashboards and alerting
- 0 Day patching and rollbacks