

Caesar Fredrick Kabalan

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PROFESSIONAL EXPERIENCE

W. L. Gore & Associates – Senior Cloud Engineer Phoenix, Arizona – 2016 to Present

- Senior engineer architecting, building, and leading the technical direction of Amazon Web Services and Microsoft Azure for a large global manufacturing organization.
- Primary subject matter expert and escalation point for all things related to AWS, Azure, cloud security, cloud networking, cloud development, cloud compliance, cost optimization, and application resiliency.
- Mentoring cloud engineers, systems administrators, and developers on building skills using cloud-native technologies, understanding key cloud concepts, and implementing best practices.
- Working closely with project teams and enterprise leadership regarding strategy and timelines for the implementation of cloud services, applications, and FDA/DFARS/CMMC compliance requirements.
- Architected, planned, and migrated to a cutting-edge cloud networking strategy encompassing many AWS VPCs across regions and accounts brought together with AWS Transit Gateway, Direct Connect, VPN, and Palo Alto VM-series firewalls. Entire deployment is orchestrated with AWS CloudFormation (VPCs), HashiCorp Terraform (TGW/DX/VPN), and Palo Alto Panorama (firewalls).
- Worked as part of a team to design and develop a custom IoT platform using AWS IoT Core, IoT Greengrass, API Gateway, Lambda, Kinesis Data Firehose, DynamoDB, Elasticsearch, S3, and Cognito.
- Developed multiple Jenkins pipelines to speed up developer/admin productivity including pipelines for deploying AMIs, CloudFormation/SAM Templates, Ansible Playbooks, and Terraform.
- Integral in the design and implementation of a fully-automated cross-cloud VM deployment process across AWS, Azure, and on-premise VMware using ServiceNow, Ansible Tower, and Ansible Playbooks.
- Worked as part of a small team to architect and build the company's first Microsoft Azure deployment including Subscriptions, VNETs, ARM Templates, and PowerShell deployment scripts.
- Founding member of a Cloud Enablement Services group which assists and enables the utilization of cloud resources by traditional infrastructure and development teams.
- Architected and built the company's first experimental AWS environments hosting public PHP and Java web applications.

W. L. Gore & Associates – DataCenter Systems Engineer Phoenix, Arizona – 2013 to 2017

- Worked as part of a team of Systems Engineers and Administrators designing and maintaining Enterprise DataCenter Systems for a large global manufacturing organization.
- Primary responsibilities included architecting, provisioning, and maintaining hundreds of Linux and Windows systems consisting of database servers, application servers, and multiple high performance compute clusters.
- Strong emphasis on scripting, automation, and monitoring including the implementation of Puppet Configuration Management to fully manage 200+ previously independent Linux systems.
- Led projects as relevant needs arose, including requirements gathering, forming timelines, vendor selection, production implementation, and system documentation.
- Championed the implementation of multiple SolarWinds Orion products on multiple continents to monitor, analyze, and alert on server and network health worldwide.
- Heavily involved in maintaining and bringing several aspects of infrastructure into a qualified state to support business compliance with FDA regulations.

W. L. Gore & Associates – Client Computing Engineer

Phoenix, Arizona – 2012 to 2013

- Member of an automation team developing and executing enterprise-wide software rollouts
- Scripted silent and interactive installations including off-the-shelf and custom developed software
- Third tier end-user support for desktop imaging environment and complex end-user troubleshooting

SKILLS

Cloud / DevOps / Automation

- Extensive first-hand experience with AWS technologies including:
 - Compute – EC2, Lambda, EKS
 - Network – ELB, Route53, VPC, Transit Gateway, Direct Connect, VPN, PrivateLink, CloudFront
 - Storage – S3, EFS, FSx, AWS Backup, Snowball, Transfer Family
 - Database – RDS, DynamoDB, ElasticSearch, Redshift
 - Security – IAM, STS, CloudTrail, KMS, Organizations, Cognito
 - Application – API Gateway, IoT, SNS, SQS, SSM Parameter Store, Secrets Manager
 - Misc – CloudFormation/SAM, CloudWatch, Savings Plans, Reserved Instances, Cost Explorer
- Practical cloud development experience building serverless, event-driven applications combining API Gateway, Lambda, DynamoDB, and IoT using Python and AWS Serverless Application Model (SAM).
- Passionate about automation/scripting technologies including Python, Ansible, Terraform, CloudFormation/SAM, Bash, Jenkins CI/CD pipelines, Git, and Docker containers.
- Functional experience building Kubernetes clusters on Amazon EKS and managing with Ansible.
- Contributor to the AWS CLI Codebase (Pull Requests #4573 / #4574 / #6365)

Security / Monitoring / Engineering

- Strong background in networking and security including:
 - Network design – Subnetting, Routing, BGP, NAT
 - Network security – Next-Gen Firewalls, SIEM/logging, PKI/certificates, encryption
 - Application design – Shared Responsibility Model, least privilege permissions, secure code design
- Experience evaluating, implementing, and maintaining monitoring solutions, including:
 - Server Monitoring – Datadog, SolarWinds, Nagios XI Enterprise
 - Log Collection – Sumo Logic, ELK Stack
- Traditional systems engineering experience including:
 - Linux – RHEL, SpaceWalk/Satellite, SSSD, performance tuning, NFS, High Perf Compute Clusters
 - Windows Server – Active Directory, File/Print Services, NTFS, CIFS
 - Virtualization – VMware vSphere, Dell blade chassis, EMC VMAX SAN, NetApp NAS Filers

Soft-Skills / Documentation / Mentorship

- Practical experience leading teams, presenting, hosting trainings, and championing projects.
- Skilled in writing quality control documentation including systems design specifications, requirements specifications, installation qualifications, procedures, and change orders.

CREDENTIALS

AWS Certified Solutions Architect - Professional (SAP)

Feb 2022 – Feb 2025

<https://www.credly.com/badges/3d936f3e-1309-4040-8df1-a7009ea505ec>

AWS Certified Solutions Architect - Associate (SAA)

Nov 2017 – Nov 2019

<https://www.credly.com/badges/37876dd0-51d1-4094-b948-58ecbdfefb4c>

Northern Arizona University

Flagstaff, Arizona – Graduated May 2012

Bachelor of Science in Business Administration – Computer Information Systems