



CURRICULUM VIATE

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Technical Summary

- Expertise in AWS and azure solution architect Design for multisite environment
- Expertise in AWS and azure on premises to cloud for multisite environment
- Expertise in migration and deploy web applications and Web Services in AWS Cloud with Python
- Expertise orchestrating, deploying Amazon ECS and EKS containerized web and data applications and services
- Expertise in Cloud architect both AWS and Azure IAAS using Terraform IAC
- Expertise Automation tools – Puppet, Chef and PowerShell, Terraform
- Expertise Devops containers tool- AKS,, Azure Kubernetes,Kubernetes, Docker
- Cloud management and governance tool Cloud checker
- Expertise configuring ITSM systems using IBM tool and Service now(Maximo and Service Now)
- Experienced in Cisco UCS environment with FI 6200 series.
- Installation, Configuration and Administration of VMware ESXi 6.5/6.0/5.5, vCenter Server and patching, management and troubleshooting of ESXi Servers.
- Expertise Patch deployment administration and troubleshooting with solutions using IBM Bigfix, WSUS and Shavlik tool/SCCM
- Installation and updating of Latest Patches of OS through SCCM Software Center.
- Installation and troubleshooting LAN switching and routing.
- Expertise Converged infrastructure, UCS,PureFlex

Summary of Experience

Highly motivated computer professional with total 19+ years' experience in Windows AD /Vmware server, Exchange server AdminLAN/WAN Administration. Responsibilities have included Project and Technical leadership in integration, implementation, and troubleshooting, reporting, and documenting Hardware/Software support for the Windows/WinTel server//Exchange servers.

Designed and Developed Infrastructure as Code (IaC) using Terraform, Ansible and Azure DevOps.

- Good Understanding on Microsoft Azure Services (Virtual Machines, Storage, AKS, Virtual Networking, Azure AD, Automation Runbooks, Governance & RBAC, Azure App Services, Server Less Computing, Load Balancer, Application Gateway, Azure Firewall, Azure Migration, Azure Backup & Site Recovery etc.).

- Developed various Azure DevOps pipeline as per customers requirement.

- Hands On experience on Terraform, extensively using Terraform for all the Cloud Infrastructure Deployments.

- Using Ansible as configuration management tool, used Ansible in various automation frameworks.
- Started with Azure Kubernetes Services for containerizing the SAP Application Tier.

Certification

AWS Solution Architect Associate Certified Engineer

Cloud Architect (AWS and Azure service and Automation tools)

Services	AWS	Azure
IaaS	Ec2	Virtual Machines
PaaS	AWS Elastic Beanstalk	App Service and Cloud Services
Containers	Ec2 and AKS Service	Azure Kubernetes Service (AKS)
Serverless Functions	AWS Lambda	Azure Functions
RDBMS	Amazon Relational Database Service	SQL Database
Virtual Network	Amazon Virtual Private Cloud (VPC)	Virtual Networks (VNETs)
Elastic Load Balancer	Elastic Load Balancer	Load Balancer
Peering	Direct Connect	ExpressRoute
DNS	Amazon Route 53	Azure DNS
Object Storage	Amazon Simple Storage Service	Blob Storage
Virtual Server Disks	Amazon Elastic Block Store	Managed Disks
Cold Storage	Amazon Glacier	Azure Archive Blob Storage
File Storage	Amazon Elastic File System	Azure File Storage

Devops tools:

Configuration Management: Git and Github,. Infrastructure as Code using with Ansible, Terraform, Chef playbooks

Experience 7 keys practices of Continues (Management, Integration, Deployment, Automation, Delivery, Monitoring, Testing) Experience Adapting and Using the 12-Factor Application Model for Microservices

DevOps/Release/Build Engineer

CI/CD: Jenkins, Azure Pipeline,CodeCommit, CodeDeploy

Configuration Tools: Chef, Ansible

Monitoring: Elastic stack, Prometheus, Splunk,Azure Monitor,Cloudwatch

Security: Vault, Prisma Cloud Security

Scripting: Powershell, Ruby, Python, Shell

Cloud: AWS, Azure,GCP

Containerization: Docker,Kubernetes, OpenShift

Databases: MongoDB,MySQL,RDS,DynamoDB

IAC Tools : Terraform, Cloud Formation, ARM,Cloud Deployment Manager

Details of Work Experience:

(Azure and AWS and GCP) June 2021 to ongoing preparing certification.

Windows/VMWare/AWS/Azure /GCP Consultant- Opsfinity India (Proactusa) December 2019 – May 2021

Lead Windows and VMware Consultant/Azure/AWS Architect: - IBM India (June 2011- August 2019)

Wintel /Exchange server admin - Veritas Inc(May 2002 – May-2011)

Redhat Linux system admin: -GV infoserv P Ltd (Feb 2000 - April 2002)

AWS and Azure/Devops

Opsfinity India(Proactusa)

AWS Architect/AWS Devops Role: Opsfinity India(Proactusa) December 2019 – May 2021

Hands-on experience working with AWS services - EC2, VPC, RDS, ELB, S3, SES, CloudWatch, EBS, Route 53, Identity & Access Management (IAM), Devops, Elastic Beans, CloudFront, CloudFormation, AWS Import/Export, CloudTrail, ElasticCache, Lambda, Elastic Transcoder and complete understanding of security groups, routing tables, Elastic Network Interfaces (ENI)

Involved in designing and deploying AWS & Azure infrastructure (IaaS) utilizing almost all of the AWS components like EC2, S3, IAM, Route53, RDS, CloudWatch, CloudFront, CloudFormation, EC2 Systems Manager, Autoscaling, VPC, AWS Direct connect, Elastic Load balancer, Trusted advisor, Amazon Glacier, AWS Lambda

- Reduction of costs at the shared service center by implementing & making strategies for performance improvement initiatives thereby improving operational costs using automation (Using AWS Lambda, Node.js)
 - Implementing AWS Security Groups and NACL (Access control list) for Additional Layer of Security.
 - Planning and Implementing Disaster Recovery and Fault for AWS services.
 - Setting up AWS Cloud watch and Custom Metrics for AWS services
 - Created S3 buckets and managed policies using IAM roles for S3 buckets and used S3 bucket and Glacier for storing historical data.
 - Setting up AWS RDS (AZ-Failover and Read replicas)
 - Automating Infrastructure using multiple AWS Cloud formation templates and updating the resources with the help of helper scripts.
 - Implementing AWS Cloud Front for the newly built websites.
 - Implemented Backup & Recovery, S3 life cycle management, reduced costs by creating Customized Alarms. Managed Billing across several AWS accounts and reduced costs by effectively utilizing the resources.
 - Setup & configured EIP to EC2 instances
 - Setup & managed security groups for Inbound\Outbound access, VPCs specific to environment.
 - Created AMI of EC2 instances using AWS CLI and IAM security best practices
 - Designing and deploying highly scalable infrastructure using ELB, OpsWork and Auto scaling services
 - Created and Managed DNS entries using Route53 to route traffic between different regions
 - Created SNS notifications and assigned ARN to S3 for object loss notifications
 - Created load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance
 - Configured & managed automation of windows patching using EC2 systems manager
- Knowledge on migration using AWS server migration service to migrate on-premises workloads to AWS
- Amazon Elastic Compute Cloud (EC2).
- CI/CD automation using Jenkins.
- ✓ Customizing Community AMIs, Register New AMIs & De-register AMIs
 - ✓ Bundle Instances - EBS & Instance store based, Snapshot of EBS
 - ✓ Elastic Load Balancer (ELB), EC2 Auto Scaling

- ✓ Handling Instance Lifecycle Terminate and Reboot
- ✓ Reserved & Spot Instances
- ✓ Monitoring EC2 using CloudWatch alarms, CloudWatch metrics & SNS
- Amazon Simple Storage Service (S3)
 - ✓ Creating Buckets, Uploading & Downloading from S3
- ✓ Granting Rights, Policy to specific users and group
- ✓ Using Reduced Redundancy Storage (RRS)
- ✓ S3 LifeCycle
 - ❖ Amazon RDS (Relational Database Service)
 - ✓ Creating On-Demand DB instances & Reserved DB instances
 - ✓ Deploying reliable (HA) DB using Multi-AZs
 - ✓ Scalable Database using PIOPS and Read Replicas
 - ✓ Automated Backup and restore
- AWS Management Console and Administration
 - ✓ Administrating Windows & Linux server on AWS
 - ✓ Knowledge on AWS Identity and access management (IAM)
 - ✓ Securing environment using AWS VPC and IAM roles
 - ✓ Granting Rights, Policy to specific users and group by IAM.
 - ✓ AWS cost calculation using TAGs and managing multiple accounts
- ✓ Basic knowledge in Storage, Network and Virtualizations
- ✓ Sound understand of Cloud Computing (IaaS, PaaS&SaaS) and private cloud.
- ✓ Knowledge on different tool sets for management and managed services on AWS
 - Amazon Route 53
 - ✓ Knowledge of Creating hosted Zone and record set on route 53.
 - ✓ Configuring DNS health checks to route traffic to healthy endpoints.
 - ✓ Manage traffic globally through Latency Based Routing, Geo DNS, and Weighted Round Robin
 - ✓ Configuring record set as ELB integration for DNS Failover.
- Understand client requirements, propose solutions and ensure delivery.
- Bundle Instances - EBS & Instance store based, Snapshot of EBS.
- Experience of designing and developing comprehensive Cloud Computing solutions on the AWS platform.
- Prior experience with building multi-tier service-oriented architecture (SOA) applications.
- Experience in building complex solutions with Amazon Virtual Private Cloud (Amazon VPC)
- Experience with big data services including AWS Data Pipeline, Amazon Redshift.
- Knowledge of Linux, Apache, MySQL as they pertain to the AWS cloud.
- Experience with EC2 Auto Scaling, EBS, S3, ELB, RDS, CloudFront, Cloud Watch Elastic ache, DynamoDB and other AWS Services.
- AWS monitoring, queuing & notification.
- Architecture design with scalability and performance as primary objective.
- Implementing AWS Infrastructure services (IAAS) like EC2, VPC, ELB, EBS, S3, SES, RDS, and CloudFront.
- Knowledge of Cloud Computing Architectures, Networking Topologies and Clustering techniques.
- Setting up new server (EC2) instances/services in AWS, configuring security groups, and setting up Elastic IPs.
- Monitoring health of Amazon EC2 instances and other AWS services.
- User management e.g. creating and managing users in Redshift, S3 etc.
- Help customers build scalable, resilient, and high-performance applications and services on AWS.
- Designing Auto scaling architectures for applications.
- Develop/capture/document architectural best practices for building systems on AWS.

- Custom monitoring metrics/analysis/alarms via CloudWatch.
- Configuring security groups and grouping the servers depending on the applications.
- Enabling and disabling of inbound and outbound ports of security groups using AWS GUI
- Managing snapshots of Amazon EBS volumes or images of EBS backed EC2 instances manage backup sets with retention handling, or create snapshots and images (AMIs) with build artifacts
- Design the architecture for hosting applications on AWS based on customer needs.
- Proficiency in Preparing/Responding RFI, RFP and customer specific requirements.
- Knowledge on MS Azure, GCE (Google Cloud Engine)

Proficient in writing Cloud Formation Templates (CFT) in YAML and JSON format to build the AWS Services with the paradigm of Infrastructure as a Code.

Designed and Developed cluster management solution for the automated start and shut down of the EMR clusters and EC2 instances based on the work load

Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.

Acquired practical exposure with Continuous Integration/Continuous Delivery tools such as GitBucket, bug-tracking tool JIRA and Jenkins to merge development with testing through pipelines.

Experienced with installation of AWS CLI to control various AWS services through SHELL/BASH scripting.

Experienced in version control and source code management tools like GIT, SVN, and TFS.

Good knowledge in relational and NoSQL databases like MySQL, SQLServer, Redshift and AWS RDS.

Possess working knowledge with Python in writing scripts to automate software configuration process

AWS Security:

Logging and Monitoring on AWS Infra security

Identity and Access Management and Data Protection

Secure responsibility and access management for Infra services

Secure responsibility and access management for Container services

Working with Access Policies

Securing AWS and instances and VPC Access

Configuring AWS CloudTrail, CloudWatch, Systems Manager, Config,

Guard Duty, Inspector, KMS, Kinesis Stream, SNS, SES, Route 53

AWS Data Engineer

Building an enterprise data lake solution responsible for supplying metric data to the downstream systems of a major US based BFSI client, using PySpark, Apache Hive, AWS Data Pipeline, EMR, and S3.

- Built a Data Quality framework using Python with Spark, PyDeequ, Pandas, alongside an extensive list of AWS Services, including AWS Lambda and Glue.

Azure Devops/Azure Architect - December2019 – May 2021

Azure DevOps - Primary responsible for CI/CD in azure pipeline Deployments of CD, modifying the azure cli task which are in shell scripts, working on AKS cluster and Terraform, migrating repos from one project to another other

Container Orchestration - Kubernetes: Orchestrating cloud infrastructure and eliminating manual work through automation and hands-on experience with managing large scale Kubernetes clusters in a microservices and containerized environment using Docker and package management using Helm

Terraform:

Having good experience in writing terraform code for Azure data factory infra.

Written terraform code for VM, storage, Vnet, DB, network rules, nic, subnet, AKS, GKE.

Having good experience in creating global resources using conditions.

Having good experience in writing modules.

Deployed Terraform code through Azure DevOps pipelines

- Experience with CI/CD tools like Azure pipelines, Jenkins
- Experience on SCM tools like GIT and Azure Repos
- Provisioned servers using terraform.
- Hands-on experience in setting up scalable and highly available applications on Compute Engine.
- Experience in working with Google Cloud Platform services (Compute Engine, Kubernetes Engine, GCS Buckets, Filestore, VPC, LoadBalancer)
- Worked on setting up the SMTP for sending out the email alerts for Jenkins builds.
- Good understanding and Very passionate about the automation of Operations tasks using Shell & Python Scripting.

Transform monolithic applications to microservices architecture using Kubernetes services configuring and administering Azure DevOps Service and used Pipelines to drive all Microservices builds out to the Azure Container Registry and then deployed to Kubernetes, Created Pods and Services

Datacenter Migration to Azure. Complete data center shutdown and moved hundreds of applications to Azure.

- Designed Enterprise level infrastructure development for Cloud Application deployment
- On-premises to Cloud Application Migration (Lift and Shift)
- Experienced in setting up Cloud Center of Excellence
- Experienced in setting up Cloud Support and Operations
- Experienced in setting up Azure Express Route
- Defined DevOps for Application development and infrastructure deployment
- Microservices based Application architecture design and implementation
- Azure Automation using PowerShell, CLI and ARM template
- Cloud based end to end Serverless solution development
- Azure creating storage account virtual network with blob from azure market place (IaaS)
- Configuring user access by identity access management service with single sign on and multi authenticated way in azure portal
- Creating and Managing Azure VM from automation service and scheduler services
- Configuring backup in azure for VM and application present on that
- Documented system logs, error reports, capacity reports, monthly project report, risk registers, Users access enablement/disablement review from Active directory, AWS console & Azure portal, Security changes reviews, patch compliance report with the Microsoft security baseline
- Created & developed the SOPs\technical notes on Wintel, AWS and Azure related tasks, Best Practice document, check list within project and to practice.

Datacenter Migration to Azure. Complete data center shutdown and moved hundreds of applications to Azure.

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- Experienced in setting up Cloud Center of Excellence
- Experienced in setting up Cloud Support and Operations
- Experienced in setting up Azure Express Route
- Defined DevOps for Application development and infrastructure deployment
- Microservices based Application architecture design and implementation
- Azure Automation using PowerShell, CLI and ARM template
- Cloud based end to end Serverless solution development

IBM India

Client : Dansk bank: June 2011 to 23rd August 2019).

(Lead Windows AD and VMware Consultant/**AWS and azure consultant.**)

Implemented Cloud Native DevOps (AWS) and Managed GitHub repositories, permissions, including branching and tagging/Versioning.

- ✓ Create and maintain fully automated CI/CD pipelines for code Build and Deployment using Jenkins and AWS to reduce human effort and speed up production processes
- ✓ Install, Configure tools needed for DevOps and Worked on the configuration part of Jenkins Jobs, Nodes and plugins to integrate
- ✓ Coordinating with developers and testers for GitHub and SonarQube related issues
- ✓ Built and deployed Docker containers to break up the monolithic app into micro-services, improving developer workflow, increasing scalability, and optimizing speed
- ✓ Actively Manage, Improve, Docker Containers and Monitoring Successfully with Kubernetes, scaling and using AWS EC2 instances
- ✓ Successfully integrated Security tools like OWASP ZAP, Burpsuite, SonarQube, Checkmarx and analyzing reports
- ✓ Integrating Security Practices in CI/CD pipeline for achieving secure deployment of applications
- ✓ Creating a pipeline for different Java, Python, C# applications
- ✓ If the build or Deployment fails, a Roll-Back plan is followed to make the previous changes reflect
- ✓ Deploy, configure and manage test runtime environments
- ✓ Troubleshooting and resolving issues in DEV, UAT and Test Environment
- ✓ Handling different AWS services like Infrastructure as Code (Cloud Formation), VPC, ElasticBeanStalk, lambda, SNS, S3, etc.
- ✓ Monitoring and Visualization of Application's metrics and graphs using ELK Stack, Nagios, Splunk, etc.
- ✓ Supporting Onsite deployment at onsite from off-shore
- ✓ Managing Windows, Linux, and PowerShell or Unix shell.

Lead designer of the Active Directory (AD) architecture in an Enterprise level, multi-user computing system. Responsibilities include designing the computing infrastructure, providing technical assistance and consulting to customer organizations, developing tools for managing the system and leading a team of AD Engineers in monitoring and managing the AD architecture.

* Part of windows 2008 to 2012R2 Active Directory upgrade for multi domain environment.

Veritas Inc

Wintel /Exchange server admin (May 2002 – May-2011)

Wintel server administration: Active Directory Administration

- ✓ Microsoft Windows 2000 & 2003 & 2008 server Administration, Management of Users Profiles & Authorizations.
 - Users & Groups account creation and Maintenance
 - Maintain Files & Folders permission
 - Manage Computer Account
 - Maintain User Profile
 - Maintain DNS and DHCP Server
 - Active Directory and Group Policy Mmgt. (W2K & W2k3&W2k8))
 - Windows/Windows 2003/2008 Active Directory Environment
- ✓ Support Package Installation
- Windows Security updates Installation
 - Update Virus definition file
 - Windows Patch management
- ✓ Performance Tuning & Monitoring
 - Daily System monitoring
 - Monitor Event Viewer
 - Server performance Monitoring

- Scheduled Maintenance task
- Monitoring Network Printers
- ✓ Network Support
 - Monitor Network Performance
 - Monitor Router and Internet Connectivity
 - Maintain Network

GV Soft Solutions, Chennai.

Feb 2000-Apr 2002

Linux System Administrator.

Performed Installation of Linux ver.7.2 and Windows NT Local Area Network at various customer sites in south India. Installed more than 5 Network Installation with over 200 systems in various configurations and topologies like Bus, star using co-axial Cables, Twisted pair cables, hubs and repeaters, Construction Domains, peer – to – peer Networks and workgroups by Windows NT, Windows 2000 machines. Installed Mail and managing server in NT domain. Computer Hardware Maintenance, Computer assembling & troubleshooting.

- Created & managed 75 users in three branches
- Performed LAN NT4 and WAN (IP Frame Relay) Systems Management with 125+ nodes. Re-designed LAN topology with switch hubs and Fast Ethernet switches, quadrupling network throughput. Moved from three network protocols exclusively to TCP/IP
- Converted desktops to TCP/IP by using, WINS, DNS, and DHCP to provide access to LAN, WAN and Intranet related services
- Implemented security and fault tolerance, including: RAID5, disaster recovery planning, NTFS implementation and management, system policy administration,
- PC Hardware installation / troubleshooting (to component level)

Educational Qualification

- B.Sc (Computer Science from T.B.M.L College. Affiliated to Bharathidasan University (1996-1999) with 58%
- H.S.C. from PRG Higher Secondary School (State Board) in 1996 with 63%.
- High School from Tamil Nādu Govt. Higher Secondary School in 1994 with 68%.

Academic Projects

Computerization of Income Tax Calculation

Description:

The title of the project “COMPUTERSITATION OF INCOME TAX CALCULATION” suggests that the calculation of Income tax can be done then way of computers very easily when comparing with the manual processing.

Platform: Visual Foxpro [Dos, Windows] LAN Server.

Personal Profile

Father's Name	:	M.Sambandam
Marital Status	:	Married
Nationality	:	Indian
Linguistic Proficiency	:	Tamil, English
Passport.No.	:	P9189332

S.Sasikumar.