

# Vignesh Kumar Selvam

## Cloud Infrastructure Engineer



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## Summary

Experienced Cloud Infrastructure Engineer with 9+ years of relevant experience in cloud infrastructure management, deployment, and automation using Azure and IBM cloud platforms. Proficient in scripting languages like Bash and PowerShell, and Low Code Platforms like Power Apps. Skilled in DevOps tools like Git, Azure DevOps, Gitlab Ops, Terraform and Docker. Capable of designing and implementing secure cloud solutions.

## Experience

### CLOUD INFRASTRUCTURE ENGINEER | 09/2021 - PRESENT

#### FE FUNDINFO INDIA PVT LTD - CHENNAI, INDIA

- Developed infrastructure as code using ARM templates, Terraform and Azure PowerShell deployment scripts to promote the reusability of the code.
- Deployment of Resources such as Virtual Machines, Storage Account, Webapps, Azure Alerts and possible resources from terraform registry across subscriptions based on the internal and external requirements.
- Developed multiple Applications in Power Automate Platform to Support the Business Needs.
- Using Azure DevOps for Build and Release Pipelines for the Webapps, Infrastructure Deployments. Also using boards for tracking tasks, and distribute the task across teams' members.
- Managing 75 IaaS (Virtual machines), 28 PaaS (Storage Account, Azure App Service Plans, Container instances Docker, Logic Apps, Power Apps) and 7 SaaS (Azure SQL Service) plus Hybrid Cloud.
- Adopting Cloud Adoption Framework and Well Architecture Framework in Azure Cloud.
- Saved around 30+ Human hours / Month by introducing Automations using Azure Automation Account, PowerShell Scripts
- Implemented security solutions including Private Link, Private DNS, and Service Endpoints.
- Identity Managements Such as PIM for Azure and Office 365, SSO, App Registrations/ Enterprise Apps.
- Security tools such as Azure Sentinel, Microsoft Defender for Endpoint and Server, and Sophos Central management and configurations.
- Exposure to both on-premises and online versions of Exchange
- Active Directory, GPO and Azure AD Sync Services Deployment, Configuration and Management.
- Exposure to Monitoring tools such as Prometheus, Grafana and Pager Duty, Analysed the alerts and setup Selfheal by implying automations using Rest API.
- Participating in Budgeting and Cost Saving plans to reduce the overall cost for resources and plan reservation and SKU changes timely either through automation or manual based on business needs.
- Created 20+ Technical Documentations for Knowledgebase, Procedural and Infrastructure Best Practices.

### SENIOR NETWORK AND SERVER ADMINISTRATOR | 01/2018 - 09/2021

#### TRADESOCIO INDIA PVT LTD - CHENNAI, INDIA

- Managed Cloud Infrastructure across 42 IaaS (Linux and Windows Servers), 7 PaaS (Azure Storage Accounts), 6 SaaS (Azure SQL Server) across IBM Cloud, Azure Cloud and Alibaba Cloud.
- Closely worked with Development Team for SDLC and created Build and Release pipelines out of YAML in Gitlab Omnibus. Build and Release Pipelines created for 14 Projects across 20 Environments (Client Base)
- Architecting Infrastructure based out of Webservices (IIS, Nginx), Windows Applications and Databases like MySQL and MSSQL for best performance.
- Backup Strategy planning to support business purpose for efficient planning for RPO and RTO.
- Disaster Recovery planning for infrastructure and Databases by enabling Site recovery and Replications.
- Participated and Implemented over all security for Webservices by introducing OpenVPN, Azure VPN, Injection Prevention, Qualys Vulnerability Assessment and SonarQube, Cloudflare Proxy.
- Created around 20+ Technical Documents on Infrastructure Setup, Configuration and Management.
- Involved in Team and Infrastructure Budgeting.
- Mentored a team of 9 members to manage infrastructure and applications as a Team lead and planning the Shift Roster.
- Planned and implemented Infrastructure monitoring using Icinga, Custom Self-Made Plugins and Azure Monitor.

## NETWORK AND SERVER ADMINISTRATOR | 09/2016 - 12/2017

### SARSE TECHNOLOGIES - CHENNAI, INDIA [Employees Acquired by Tradesocio India Private Limited in 2018]

- Responsible for configuring and managing the Server Applications based out of PHP, C++ and .net across 30+ Linux and Windows Machines.
- Configuring basic level of Security to block all the routes of public access in the servers.
- Deployed Gitlab Omnibus and migrated 10+ SVN Projects to Gitlab with all commit history for source code management which having latest market standards.
- Planned and implemented backup plans for Databases and Files to support the business needs using Duply and Cobian.
- DR and Failover strategy to support business using HaProxy, MS SQL Mirroring, MySQL Master/Slave Replication
- Configuring Nginx and IIS to server website and WebSocket interfaces for 10 Set of Servers.
- Developed and deployed Bash, PowerShell Scripts to reduce Man Efforts on repeated tasks and Self fixing properties.
- Participated in migration activities such as Business Application Version Upgrade, Databases Schema Upgrades.
- Participated the Cloud migration such as Lift and Shift the Servers/Applications/Databases from Onprem to Azure/IBM

## IT SUPPORT EXECUTIVE | 04/2016 - 09/2016

### INSPACE TECHNOLOGIES - CHENNAI, INDIA

- Configured and managed users /devices in Active Directory Domain Services (AD DS) and Group Policy Objects (GPO)
- Operational management of 5 Windows Servers Includes Active Directory Domain Services (AD DS), SAP and SMB
- User Management in Databases Such as Microsoft Dynamics and SAP HANA.
- Managed a corporate office of 50 members / 70 Workstations including Server / Client Machines.
- Monitored user activities and fix issues with server and client machines.
- Monitored CCTV, network, and biometrics for security purposes.
- Developed and managed backup plans for SAP HANA and SMB

## TECHNICAL TRAINER | 03/2015 - 04/2016

### IWIZ ANDROID ROBO PVT LTD - CHENNAI, INDIA

- Developed 5+ educational robots.
- Trained 150+ Students across Schools and Colleges
- Developed few programs for Arduino UNO based Robots
- Planned and executed events such as workshops and exhibitions to showcase the robots and promote the organization.
- Developed different levels of robots that correspond to the grade level of students using them.

## Skills

### Infrastructure & Platforms

- Azure, AWS, IBM and Alibaba Cloud
- Azure Network
- Terraform, YAML, Gitlab Ops, Azure DevOps
- IBM Cloud
- Ansible, ARM
- Docker
- MSSQL, MySQL, MongoDB.
- SVN, GitLab, GitHub
- IIS, Nginx
- CloudFlare

### Protocols, Security & Automation

- TCP/UDP, SMTP, SMB, TLS, SSL, HTTP/S, FTP.
- OpenVPN, Always On VPN
- Qualiys, Firewall, Application Gateway, Front Door, Traffic Manager
- Bash, Shell
- CronJobs / Schedule Jobs
- Rest API
- RHEL, Ubuntu

## Education

### Bachelor Of Engineering | ECE | 2011 - 2014

Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College

### Diploma in Engineering | ECE | 2008 - 2011

Ponnaiyah Ramajayam Polytechnic College