



About Somnath:

Somnath has been working with Neosoft Technologies as a Cloud and DevOps Engineer. His responsibilities entail design of cloud infrastructure, its security, network design and connectivity between the cloud and the on-premises Data Center. He has implemented core DevOps concepts such as Virtualization, Version control, Cloud computing, Load balancing, Linux administration, Containerization, Alert configuration and Monitoring. He has an in-depth knowledge of the cloud and related technologies and has delivered best in class configurations on time thereby exceeding clients expectations.

Somnath is enthusiastic while working as part of a team or alone and believes in hard-work, discipline and perseverance.

Professional Certifications:

- **Microsoft Certified Azure Administrator Associate**
- **AWS Certified Solutions Architect Associate**
- **AZ-100 : MS Azure Infrastructure and Deployment**
- **GSDC Certified Devops Practitioner**

Skills & Competencies:

Microsoft Azure :

VM,VNET,AGW,VNG,LB,Ro S3,EC2,RDS,IAM,VPC,EFS,Clou
utetable,Blob,CDN,NSG,Re dFront,ALB,ELB,SG,NACL,EBS,
covery Services Vault

AWS :

OS :

Linux, Windows Server,
RHEL,Ubuntu,CentOS

Webserver :

Apache Webserver,
Apache Tomcat, IIS

Monitoring :

SCOM,Azure
Monitor,CloudWatch,Grafana

DevOps :

Git, Maven, Jenkins, Sonarqube,
Docker, Kubernetes, Azure Devops

DR: Azure Site Recovery

Virtualization:
VmwareVcenter

Backup: Azure Backup

Projects Executed:

Role: Devops and Cloud Architect during the website development of www.tata.com

Client: **TATA SONS, Bombay House, Mumbai**

Key Responsibilities :

- Isolating the Virtual Networks for the Dev, QAT, Pre-Prod & Prod environments
- Configuring requisite network security protocols using NSG, Route-Table and VNG.
- Configuring 30 Virtual Machines using RHEL in a three stage environment
- Implementing resilient environments ensuring High Availability and avoiding single points of failure by using Availability Sets, Scale Sets
- Configured the Application Gateway (WAF) and appropriate redirections using powershell
- Configured the architecture in a Hub & Spoke architecture
- Configured and secured the Storage Accounts & File Shares.

- Ensured application consistent Backups and automated daily Snapshots
- Ensured the Scalability and load-balancing of the application servers using Application-Gateway and Scale Sets.
- Configured multiple IP Sec Tunnels for secure and encrypted communication using VNG and LNG.
- Designed the Disaster Recovery process using Recovery Services Vault
- Hardened the Linux instances.
- Implemented continuous monitoring using Azure monitor and alert configurations using Azure Action Groups.
- Implemented the DevOps vision of the project by using Version Control tool's like Git.
- Configured CI/CD pipelines using Jenkins,
- Configured Maven as the Build Automation Tool and its dependencies,
- Sonarqube for continuous code quality inspection.
- Installed and configured Ansible as the Configuration Management tool
- Configured Open SSH and installed requisite updates and patches across 30 VM's in an automated manner
- Involved with the development team in the Dockerisation of the CMS Adobe Experience Manager
- Isolated the parts of the application and created containers.
- Registered the containers on the cloud using Azure Container Registry and Orchestrated the same using Azure Kubernetes Service
- Designed the Akamai CDN & configured appropriate caching rules to improve the caching behaviour & enhance security
- Optimised the costs by designing the caching behaviour of the resources geographically hence reducing expenses.
- Planned the DNS migration process ensuring 0 downtime and utilized Azure DNS zones

Role: Monitoring Solution for Azure Portal and Azure-DevOps

Client: **PwC, UK**

Key Responsibilities

- Configured the Organisations and Projects on Azure Devops
- Migrated the existing version control TFS to Git
- Configured the distributed Version Control tool Git and integrated with the local Visual Studio Team Services Tools
- Configured appropriate pipelines based on different environments Dev, Test and Prod
- Designed the release pipelines to deploy appropriate code to App Services
- Configured Kanban boards based on the project requirements
- Configured appropriate widgets on dashboards for a graphical representation of the process
- Secured the Azure Devops using appropriate security rules and RBAC permissions
- Installation of monitoring agents on Windows and RHEL instances
- Configuration of alerts and notifications using Action Groups and Azure monitor
- Installation of Grafana on RHEL VM and securing the instance using NSG's
- Configuring the application leveraging High Availability utilizing appropriate Load-Balancers, Scale Sets and Availability Sets
- Integrating Azure Resource Manager Portal with Azure Devops using plug-ins

- Designed a dashboard for 10 IAAS VM's, 5 SQL Servers and multiple WebApps
- Designed appropriate Dashboard on Azure Devops displaying Sprints, Bugs, Pipelines, Builds, Releases, Failures etc.
- Configured Grafana to display the particular parameters on Grafana Dashboard

Role: AWS Administrator for the website development of www.tcs.com

Client : **Tata Consultancy Services, Pune**

Key Responsibilities :-

- Creating VPC's and configuring appropriate routing rules in a 3 tier architecture
- Configured 15+ EC2 instances using RHEL
- Implemented fault tolerant systems using Availability Zones and ASG's and Placement Groups
- Configuring Apache webserver on the instances as per the application requirement(Adobe Experience Manager)
- Configured the Elastic Loadbalancer for the webserver and configured SSL certificates for SSL off-loading
- Configured monitoring using Cloudwatch
- Configured appropriate security groups and NACL's for the instances
- Configured the S3 rules and configured versioning and policies for Galcier

Role: Configuring Wordpress on ECS & RDS using AWS services

Client : **NMES Group, Sweden**

Key Responsibilities :-

- Configured appropriate VPCs, security & routing rules
- Configured loadbalancing rules using ELB to eliminate single point of failure and leverage High Availability
- Configured a Cluster using ECS to host a website on wordpress leveraging Docker hub containers
- Configured a Bastion Host on the Public subnet to securely access the ECS Container instance
- Configured the task definition and appropriate services
- Configured the database for the application using RDS MySQL PAAS service