

# Yahya

Network Engineer



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## Summary:

Analytic Network Engineer with 2 years of experience in managing LAN/WAN networks and a strong background in modern networking, virtualization, and cloud technologies. Accomplished network developer with proven success in designing and implementing business connectivity solutions. Focused on maintaining network scalability & availability of on-premises and cloud systems to provide customers with seamless data management.

## Technical Competencies:

- |                       |                            |                          |                    |
|-----------------------|----------------------------|--------------------------|--------------------|
| ▪ TCP/IP              | ▪ Azure VNet & AWS VPC     | ▪ VMware NSX             | ▪ Terraform        |
| ▪ LAN/WAN/WLAN        | ▪ Azure Storage & AWS S3   | ▪ VMware vSphere         | ▪ Ansible          |
| ▪ SDWAN + SASE        | ▪ Azure Entra ID & AWS IAM | ▪ Network Virtualization | ▪ PowerShell       |
| ▪ Cisco Devices       | ▪ Azure Migration          | ▪ Server management      | ▪ Bash             |
| ▪ Ubiquiti Devices    | ▪ Azure VMware             | ▪ MySQL                  | ▪ Python Scripting |
| ▪ FortiGate Firewall  | ▪ Azure Firewall & NSG     | ▪ Windows & Linux Server | ▪ CI/CD            |
| ▪ Routing & switching | ▪ Azure ExpressRoute       | ▪ Hyper-V                | ▪ SDN Automation   |

## Work Experience:

**ATMECS Technologies**, India, Hyderabad

*A leading service-based company providing innovative solutions, with over 2000 satisfied clients and \$60M+ in annual revenue.*

### Network Engineer

June 2022 – December 2023

#### Network Administration & SDWAN Support:

- Managed computer systems, established spine-leaf, collapsed tier network architectures as per client's needs.
- Configured **Cisco routers (2600, 2800, 3600, 3800 series)**.
- Installed and Maintained **Cisco switches (2950, 3700, 6500, NX series)**.
- Implemented switching protocols (**port security, EtherChannel, STP, VLANs, inter-VLAN routing**)
- Performed network configuration, troubleshooting (routing, IP assignments, performance tuning)
- Configured **routing protocols (OSPF, BGP, EIGRP)**, **route redistribution** and leveraged **ECMP** for optimal path selections.
- Enhanced network security measures against unauthenticated, unauthorized, and inconsistent privilege access to the users by updating and configuring **FortiGate Firewalls, ACLs, WLAN security**, resulting in 15% system security improvement.
- Assisted in network topology design and documentation.
- Troubleshot network, server issues, raised tickets and resolve them based on priority.
- Utilized **SNMP** configurations and integrated various network equipment to **SolarWinds** for better network visibility.
- Deployed, managed mesh **WLAN (UniFi Security Gateways, PoE switches, APs)**.
- Configured **FortiGate firewalls (policies, VDOMs, clustering)** and acquired practical exposure working on **Palo Alto firewalls**.
- Managed and **Monitored issues on SDWAN** over 100+ routers, identified and resolved bottlenecks.
- Onboarded **SDWAN vEdge routers** and assisted with **MPLS** underlay design, providing optimal and manageable network design.
- Documented various SDWAN configurations, network diagrams, **troubleshooting** for future reference.
- Coordinated Network Team in installing and configuring network devices for optimal latencies, providing 20% of business continuity improvement, future compatibility, and management flexibility.

#### VMware NSX Monitoring & Management:

- Maintained and Monitored **VMware NSX** micro-segments using of the NIC for enhanced security and network automation.
- Installed, configured, and managed virtual hosts across VMware vSphere environments.
- Implemented **micro-segmentation** policies leveraging **Distributed Logical Routers (DLRs)** and **Distributed Firewalls (DFWs)** for granular traffic control and enhanced security posture within the virtualized environment.

- Improved application performance by 30% by leveraging **NSX Load Balancer** for intelligent traffic steering and load balancing, leading to enhanced user experience and customer satisfaction.
- Streamlined network operations and troubleshooting processes by leveraging **NSX Intelligence** (formerly vRealize Network Insight) for comprehensive visibility and analytics, resulting in a 40% decrease in mean time to resolution (MTTR) for network-related issues.
- Collaborated with teams to implement **vSphere patch and change management** strategies aligned with client requirements and to integrate VMware NSX with existing network infrastructure and cloud platforms.

#### Azure Cloud Connectivity and Cloud Adoption Support:

- Configured and optimized **Azure virtual networks, VNet peering, User-defined routes (UDRs), and network security groups (NSGs)** for secure and scalable cloud deployments.
- Implemented Azure networking services like **Azure WAN, Network Watcher, DDoS protection, and Microsoft Entra ID** for governance and network resiliency.
- Good exposure in implementing hybrid cloud architectures, establishing **VPN** connectivity and **Azure sync** with on-premises systems for seamless data synchronization.
- Supported **Windows Server** user, group, and device migrations and proper **Azure IAM** policies assignment on the cloud, ensuring secure access management and security controls.
- Scripted infrastructure provisioning and configuration management using **Terraform** and **Ansible** for cloud deployments.
- Gained experience with CI/CD pipelines for infrastructure builds using Terraform and **Pulumi**.
- Planned and executed Azure **Express-Route** deployments, enabling dedicated, private connectivity between VMware network infrastructure and Azure cloud network.
- Good Exposure to AWS cloud Services such as EC2, S3, Route 53, VPC, Direct Connect, IAM, etc.,
- Achieved 99.9% uptime for Azure Express Route circuits, ensuring highly available and reliable connectivity between on-premises and cloud environments.
- Reduced network provisioning time by 60% through automated deployment of Azure networking components, resulting in faster time-to-market for cloud-based applications and services.
- Collaborated with cross-functional teams, including cloud architects, application owners, and on-premises network engineers, to ensure seamless integration and operation of Azure networking solutions.

#### Education:

**Global Institute of Engineering & Technology, Hyderabad**

July 2018 to July 2022

*Bachelor of Technology in Computer Science – First Class*

**Areas of Studies:** Computer Networks, Cloud Computing, Cryptography & Network Security

#### Certifications:

- Cisco Certified Network Associate (CCNA)
- Azure Fundamentals Certified (AZ-900)
- Cisco Certified Network Professional (CCNP)
- Azure Solutions Architect (AZ-305)
- AWS Solutions Architect Associate (SAA-C03)
- Azure Administrator Associate (AZ-104)

#### Accomplishments:

##### Ethical Hacking Workshop | Azure Skynet at IITH (X2):

- Attended ethical hacking workshops at IITH that demonstrated various Attack vectors on the internet with labs on mitigations.

##### Hackathon | Code for India (CFI):

- Contributed to creating a decentralized chat app using GUNDB. Our prototype was selected for incubation at Edventure Park.

#### Languages:

- **English** (*Proficient*)
- **Urdu** (*Proficient*)
- **Arabic** (*Intermediate*).