Ashok Dwivedi   **Lkwashok@rediffmail.com**

Mobile: 9934049144

SUMMARY

With 18 years of rich experience of industry with various perspective of technology both from strategic as well as execution level, Individual who takes initiative, quick learner with strong communication, collaborative & leadership skills with Design / Operation's / Project Deliverys. Being Cloud Network Infrastructure Architect **@IBM** owning Hybrid cloud automation and e2e deployment, in various type of datacenters. Driving network transformation with **Cloud computing, NFV & SDN** deployment and optimize capital and operational spending cost from across the Network infrastructure & datacenter.

I started my professional carrier as Field Engineer for IT integration at CSPL and moved on to Samsung India as an Area Service Manager where I pioneered exceptional business growth in Samsung IT products. While leading a team of Customer Support. I then moved on to Noviacom Saudi Arabia as a Team Lead for Telecom VAS product, Plan & Writing Network solutions. After Project Completion of Saudi Arabia I then moved as Manager IT in Fiorano Software Bangalore for IT Infrastructure deployment. Subsequently I joined Nokia Siemens Network as a Team Lead for Business support system (Charging solution) and was responsible for roll out IN Network in Customer environment for new Project / Feature for Prepaid Charging solution, all IP networks & Customer IP Network Audit till 2011, & I then Moved to Customer Care operation for CS core PS Core network deployment across the telecom Service Providers Airtel, Voda, Idea, Telenor, Post Nokia, I did join Bharti Airtel in June-2013 as Sr, manager Network Head, Took various responsibility's thought PAN India, Planned more than100+ Datacenter network marinization & Cloud Migration. Connected 40DC across PAN India over MPLS, using BICC protocol and CMN. First Google PGW deployment on **GCP.**

Skills:

- Cloud Architect, focused on SDN/NFV, Network Virtualization, Hybrid Cloud and Data Center Automation. BSc in Computer Science, Cisco CCNP and Datacenter.
- Network Virtualization Expert, with deep knowledge and over 18 years of experience in Networking and Security, mostly in Data Center environment.
- Online Knowledge sharing about Networking, SDN and Cloud since 2016
- Expert in: LAN/WAN/MPLS and DC Network architecture, Network Virtualization and Security.
- Focused on SDN and Network Virtualization solutions such as Cisco ACI, VMware NSX, Nokia Nuage and Open source SDN Solutions such as OpenDayLight and Open Contrail.
- Private/Hybrid Cloud Solutions and their Integration with the SDN solutions and the physical and virtual network.
- Micro Services, and Application Evolution towards Containers.
- Kubernetes, OpenStack, Cloud Stack, Ansible, Chef, Puppet, Terraform, CloudFormation, Python, YMAL, for CICD, Using REST full API for intercommunication module.
- SDN, NFV, NFV with VNID, NVE, / VTEP, VXLAN & EVPN, Experience deploying VMWare.
- Google Cloud along with Google EPC (Google -PGW with IMS VoLTE & VoWiFi).
- **Routing / Switching Protocol** : SDN, IP-MPLS, VPN, BGP, OSPF, EIGRP, RIP, HSRP, VRRP, GLBP, IPv4, VRF, NTP, SNMP, STP, MST, RPVST+, ARP, CDP, VTP, L2TP, and WLAN.
- **OS:** Solaris, UNIX, RHEL Linux.
- **Core Data Core Network** - 2G , GPRS / EDGE , 3G , LTE – SGSN/MME , GGSN/PGW , PCRF , vMME , vSGw/PGw , CGNAT, MMS, CGF, AAA, DNS. • VoLTE-IMS, TAS, CSCF, SIP, BGW, SBC, SRVCC, CSFB.
- **Mobile Voice Core Network** - Switching , Roaming , VAS platforms , HLR , VLR , MSC , SMSC , MMSC , VAS. • Mobile Voice Core Protocols - Signaling , SS7 , SIGTRAN , MAP , SCCP , CAMEL , ISUP , SMS etc.

- **Mobile Packet Protocols** - S1MME , S1U ,   S11 , S8 , S6 , Gx , Gy , Gn , Gr , IuPS , 3GDT , Gi , Diameter , SCTP , VoLTE Protocols (Rx , Gm , Gx , Sh , Cx).
- Signaling Exchange Networks & Roaming - STP , DRA , IPX , GRX. • Fixed line Broadband network Architecture, Strategy and planning for BRAS, SRC, LDAP, PCRF and AAA.

EDUCATION

- **B.Sc. with Computer Science in July 2000** from Lucknow University, UP

PROFESSIONAL CERTIFICATIONS –

- **PMP contact Program Certificate.**
- **Cisco Certified Network Professional (CCNP).**
- **Cisco Certified Network Associate (CCNA).**
- **Automating the Cisco Enterprise Cloud (CLDAUT).**
- **Designing Cisco Data Center Unified Fabric.**
- **CNSITP & CNSITC from Nokia Siemens Networks + IP Level-4 + LTE.**
- **IMS & VoLTE.**

Career Highlights

Cloud Network Infrastructure Architect @IBM IndiaAug-2020.

- Hybrid Cloud Network deployment along with Cloud migration.
- Programming chops, automation tool to genrate YMAL & JSON files.
- Developing tool for LLD & Config automation.
- Building systems to run on a particular solution on cloud.
- Server Resource Planning as per VNF.
- SDN Solutioning with ML-2 Cisco API & Nokia Nuage.
- E2e Technical management for Hybrid Cloud Deployment on HP & Dell HW with Automation.
- Capacity Management Solution.
- Multiple modern architecture patterns like containers and container orchestration.
- Work with people, modern methodologies and cultures, such as Agile and DevOps
- The job is "50% Leadership (Coaching, mentoring, driving processes).

Head Network Planning (Infrastructure & Datacenter's), with Bharti Airtel India Jun-2013 to Aug-2020.

- Hybrid Cloud Network deployment along with Cloud migration.
- Google Cloud Deployment along with Google EPC (Google -PGW with VoLTE & VoWiFi).
- CUPS architecture deployment, in EPC.
- Edge cloud deployment & migration.
- IMS VoLTE Deployment on cloud, with HUB & Spoke architecture.
- Paco (vPGW/vMME) Deployment & traffic migration.
- Monitor the performance of the installed network and initiate actions to improve the Performance.
- Designed MPLS network and completed successful integration with traffic migration.
- Hands-on Network Design Architecture for 4G, 3G, 2G Circuit core (Voice) & Packet Core (Data) Planning & Project delivery.
- Network Dimensioning for 4G, 3G, 2G Circuit core, Packet Core, IN, VAS, OSS Network Operation & Node Capacity Planning.
- Writing Solutions document for all IP Transmission for (IP-MPLS & MPLS-TP) CS/ PS/IN/VAS/OSS Core Network.
- Writing HLD / LLD document for Network.

Technical Lead with Nokia Siemens Networks, Bangalore, Gurgaon, India & Global February2009 to June-2013.

Nokia Siemens Networks, leading organization in telecom sector globally. Providing end-to-end solutions to telecom service providers.

- Worked as Design authority, Defining architecture and design for Service Provider's with managed services.
- Hands-on Node Capacity & IP Planning for CS & PS core (MSS/MGW, HLR /VLR, STP, GGSN & SGSN, MME, PGW, SGW, & IN-charging / VOMS server), Management (OSS)
- Lead engineering on networking projects for Europe, Asia & South Africa.
- Hands-on RFI / RFP for product solution with presentations & answer.
- Hands-on planning to integrate solution in customer's critical live environment.
- Writing Solutions document for all IP Transmission for (IP-MPLS & MPLS-TP) CS/ PS/IN/VAS/OSS Core Network.
- Writing HLD / DLD document for Network, Creating configuration, and media creation for Project's.
- Creating technical document for the projects such like DNP & IPF (Document Network planning as well Infrastructure Engineer Planning).
- Hands-on L3 / L2 IP Protocol, IP-MPLS / MPLS-TP, BGP, OSP VLAN, WLAN, STP MSTP etc.

Projects

- DiGi Telecommunications, Malaysia, Vodacom South Africa,
- Airtel, Vodafone Essar Limited, BSNL, Uninor, Aircel, India,
- NSN, Converged Core, Bangalore India,
- MTEL Bulgaria & VIBO Taiwan..

Sr. Network / System Administrator with Fiorano Software Private Limited India & Europe March, 2007 – January, 2009

Well known Company in middleware software such as third-party adaptor, Head office is in USA, and they have development office in Bangalore ITPL Park India. They have more than 26 office in the world they work in Banking domain and capital markets the have solution for online shopping.

Senior Network Engineer with NOVIAcom, Riyadh, Saudi Arabia, January, 2006 – February, 2007

Noviacom, leading organization in telecom service sector in MEA. Noviacom is Gold partner of Cisco systems' providing end-to-end solutions to telecom service providers. Working in Business Solution business unit. Providing business support solution like IN, Packet Core, PDSN, Mediation, Care, HLR, Network Management for Radio, Transport, Core, Soft voice switching etc.

Projects

- Saudi Telecom Company, GPRS, VAS, Mobile VPN & Blackberry project.

Network / System administrator with SAMSUNG INDIA ELECTRONIC PVT. LTD, Lucknow, India January, 2004 – December, 2005 .

Personal Details

Date of Birth	:	5th June 1979
Nationality	:	Indian
Languages Known	:	English & Hindi
Passport No	:	M7562643
Passport Exp	:	Mar-2025
Mobile no	:	9934049144

Applicant

(Ashok Dwivedi)