**[dwarkanath.professional@gmail.com](mailto:dwarkanath.professional@gmail.com) Dwarkanath**

**971-399-0022 Cloud Architect**

**Visa : TN**

**Summary**:

* Demonstrated proficiency in utilizing AWS services such as IAM, EC2, S3, and Lambda, and GCP services like Compute Engine and Container Registry, to improve operational capabilities.
* Developed and implemented cloud automation using tools such as AWS CloudFormation and Terraform, significantly reducing manual workload and increasing deployment speed.
* Employed a range of DevOps tools including Ansible, Docker, Kubernetes, and Jenkins to streamline and automate development processes.
* Led successful migrations from on-premises environments to various cloud platforms including AWS, Azure, GCP, and IBM SoftLayer, enhancing system efficiency and scalability.
* Supported enterprise-level SaaS, PaaS, and IaaS platforms, providing troubleshooting and global customer support.
* Expertly managed and optimized both virtual and physical systems, including regular maintenance, backups, and day-to-day operations.
* Ensured system security and compliance by managing IAM roles, security groups, and continuous monitoring using tools like Nessus and Splunk.
* Enhanced disaster recovery and high availability strategies, ensuring robust infrastructure resilience and maintaining SLA requirements.
* Drove IT infrastructure improvements by introducing system automation and adopting cutting-edge solutions to meet evolving business needs.
* Led and trained IT teams on modern monitoring tools and technologies, fostering a culture of continuous learning and improvement.

**Technical Skills**

**Programming Languages** C/C++, Java, Shell Scripting, Python

**Cloud Infrastructure** AWS, IBM SoftLayer, Azure, GCP

**DevOps tools** Ansible, Terraform, Docker, Kubernetes, HashiCorp, CF-Engine, CloudFormation

**Security tools** Nessus, Alien Vault, 0Auth and Palo Alto firewall

**Monitoring Tools** New Relic, Nagios, Icinga, Logzio

**Operating Systems** Redhat Linux, Centos, Debian, Windows 10, Windows Server R2 2012

**Networking** RIP, OSPF, EIGRP, SIP, MPLS, BGP, DHCP, DNS, SNMP, STP, VTP, VLAN

**Virtualization** Hyper V, VMware

**Application Layer** HTTP/HTTPS, Telnet, FTP, SSL, Certificate renewal

**Networking Tools** Wireshark (Ethereal Sniffer), Solar Wind, Cisco Packet Tracer

**Education**

Bachelor of Engineering (B.E.) in Electronics Engineering University of Mumbai Aug 2011

**Certifications**

* Certified AWS Solution Architect Associate 2020
* Cisco Certified Network Associate – v.3.0 2017

**Professional Experience**

**Morgan Stanley Montreal, QC, Canada June 2021 – Present**

**Sr. Cloud Architect**

**Responsibilities:**

* Developed and deployed Azure Virtual Desktops with advanced auto-scaling capabilities, ensuring efficient distribution of golden images to session hosts.
* Utilized a broad range of AWS services including EC2, S3, RDS, Route53, CloudFront, CloudWatch, IAM, VPC, ECS, ECR, and EKS to manage and optimize cloud infrastructure.
* Led the complex migration of IBM MQ messaging systems to CPS and Kafka instances, facilitating seamless multidirectional messaging between cloud and on-premises environments.
* Configured robust site-to-site VPN connections across Azure, AWS, and on-premises infrastructure, enhancing secure connectivity.
* Implemented point-to-site VPN connections to extend secure access to cloud resources.
* Developed comprehensive Terraform scripts to automate the creation and management of cloud services across AWS, Azure, and GCP.
* Enhanced application security by implementing Web Application Firewall and AWS Shield, protecting against cyber threats.
* Managed the creation and maintenance of virtual machines, storage accounts, and file shares, ensuring efficient resource allocation.
* Configured Azure File Sync to seamlessly integrate on-premises file systems with Azure, optimizing data accessibility.
* Effectively communicated with various application teams to gather migration requirements and provide technical support.
* Delivered high-quality cloud services across IaaS, PaaS, and SaaS platforms, ensuring scalable and reliable solutions.
* Configured load balancing solutions tailored to application development team requirements, optimizing performance.
* Provided expert technical support for Kubernetes clusters, ensuring high availability and reliability.
* Created detailed reports using PowerBI, enabling data-driven decision-making.
* Developed Ansible scripts using YAML to automate VM creation, update VMWare tools, and manage snapshots.
* Configured Azure firewall, network security groups, subnets, and route tables to enhance network security and performance.
* Demonstrated expertise in setting up Azure VNets, VNet peering, and ExpressRoute connections, integrating seamlessly with on-premises networks.
* Implemented CI/CD pipelines using Azure DevOps, streamlining development and deployment processes.

**BNP Paribas Montreal, QC, Canada July 2020 - July 2021**

**Sr. Cloud Architect**

**Responsibilities:**

* Utilized various AWS services including EC2, S3, RDS, Route53, CloudFront, and CloudWatch for comprehensive infrastructure management.
* Managed IAM, VPC, ECS, ECR, and EKS to optimize AWS infrastructure, including launching and configuring EC2 instances.
* Developed and configured virtual machines, resource groups, web apps, Azure storage accounts, and PostgreSQL databases in Azure.
* Led the migration of virtual machines from Hyper-V or VMware to both AWS and Azure platforms.
* Created snapshots and Amazon Machine Images (AMIs) for backup and storage purposes based on specific requirements.
* Configured VPC to VPC connections in AWS and VNet to VNet connections in Azure to enhance network connectivity.
* Utilized AWS DevOps tools such as CodeCommit, CodeBuild, CodePipeline, and CodeDeploy for efficient development and deployment.
* Employed Terraform to create and manage virtual machines and services in both AWS and Azure environments.
* Provided support for CloudBlot issues for end users creating services in AWS, Azure, and VMware.
* Possesses a strong understanding of cloud platforms, including IaaS, PaaS, and SaaS models.
* Implemented and configured AWS network services such as VPC, Security Groups, Transit Gateways, and Direct Connect.
* Configured VPN and site-to-site VPN connections to ensure secure communication.
* Developed reusable Terraform scripts to automate the creation of cloud services.
* Configured AWS CloudWatch to monitor resources including file systems, log files, CPU utilization, memory utilization, and ports.
* Set up and managed Kubernetes clusters to enhance application deployment and management.
* Configured Azure VNets, VNet Peering, Blob Storage, Storage Accounts, and ExpressRoute for seamless connection to on-premises networks.
* Designed high availability and disaster recovery plans to ensure application resilience and continuity.
* Created serverless applications using AWS Lambda to streamline processes and reduce overhead.
* Enhanced application security by enabling Web Application Firewall and AWS Shield.
* Utilized Azure DevOps to execute Terraform scripts for infrastructure management.
* Installed and configured Ansible, Ansible Tower, and AWX for streamlined automation.
* Set up and manage isolated nodes for Ansible Tower to ensure secure and efficient operations.

**OneSpan Montreal, QC, Canada Sept 2019 – May 2020**

**Cloud Architect**

**Responsibilities:**

* Demonstrated strong expertise in DevOps, leveraging tools such as Ansible, Docker, Kubernetes, GIT, and Jenkins to facilitate continuous integration and deployment across various environments.
* Utilized Various AWS services to skillfully manage services such as IAM, VPC, EC2, ECS, EBS, RDS, S3, Lambda, ELB, Auto Scaling, Route 53, CloudFront, Cloud Watch, Cloud Trail, SQS, and SNS.
* Successfully migrated on-premises environments to cloud platforms including Amazon Web Services, Azure, Google Cloud Platform, IBM SoftLayer, and VMware, enhancing scalability and system resilience.
* Specialized in cloud automation, employing AWS CloudFormation and GCP along with Terraform to architect and deploy custom VPCs, subnets, NAT gateways, EC2 instances, ELBs, and security groups.
* Expertly prepared, configured, tested, deployed, managed, and optimized a variety of systems, both virtual and physical, ensuring high availability and performance across the infrastructure.
* Conducted daily management, maintenance, and backup operations, continuously improving system reliability and efficiency.
* Utilized GCP services such as Compute Engine, KMS, Container Registry, Data Log, Data Flow, and DataStore to deliver tailored cloud solutions.
* Oversaw DNS management using PowerDNS and GoDaddy, and supported the administration of Microsoft Office tools including Office 365 and SharePoint.
* Designed and implemented robust cloud services tailored to the specific needs of vendors, developers, and R&D, focusing on high availability, multi-stack environments, and system automation.
* Ensured comprehensive security and compliance, managing IAM roles and policies, and utilizing advanced security tools like Nessus, AlienVault, QRadar, Splunk, SAML, OAuth, and Kerberos to safeguard data integrity and confidentiality.
* Led IT infrastructure improvements by adopting new solutions and technologies, thereby driving significant enhancements in system automation and operational efficiency.

**RBC Canada Toronto, ON, Canada Dec 2017 – Sept 2019**

**Sr. Network Cloud Engineer**

**Responsibilities:**

* Specialized in cloud automation using AWS CloudFormation templates to meticulously design and deploy customized cloud infrastructure including VPCs, subnets, NAT gateways, EC2 instances, ELBs, and security groups.
* Led the strategic migration of on-premises environments to major cloud platforms including Amazon Web Services, Google Cloud Platform, Azure, IBM SoftLayer, VMware, and Xen, significantly enhancing operational flexibility and disaster recovery capabilities.
* Skilled in incident handling and change implementation, ensuring smooth transitions and minimal downtime.
* Proficient in a suite of DevOps tools including Ansible, Terraform, Docker, Kubernetes, Subversion, GIT, Hudson, Jenkins, Ant, JSON, and Maven, enhancing automation and efficiency across development operations.
* Demonstrated expertise in Amazon Web Services, effectively managing and implementing services such as IAM, VPC, EC2, ECS, EBS, RDS, S3, Lambda, ELB, Auto Scaling, Route 53, CloudFront, Cloud Watch, Cloud Trail, SQS, and SNS.
* Managed comprehensive documentation on Confluence, and supported troubleshooting and maintenance of SaaS and PaaS platform services for global clients.
* Experienced with Google Cloud Platform, adept at leveraging services like Compute Engine, KMS, Container Registry, Data Log, Data Flow, and DataStore to optimize cloud operations.
* Proficiently prepared, configured, tested, deployed, managed, and optimized a wide array of systems, both virtual and physical, achieving optimal performance and system health.
* Conducted daily management, maintenance, and backup of IT systems, ensuring reliability and continuity of operations.
* Developed and deployed tailored cloud services to meet specific vendor, developer, and research and development needs, ensuring high availability and robust disaster recovery solutions.
* Engineered and implemented network and infrastructure security measures using Palo Alto firewalls, safeguarding against potential threats and vulnerabilities.
* Created desktop applications using Python to support cloud, network, and application troubleshooting, further enhancing support capabilities and operational efficiency.
* Provided comprehensive day-to-day support in the order process management of Voice Services, including Cisco IP, IP Contact Centre, Centrex/ACD, Calling Cards, Toll-Free services, and Directory Listings.
* Coordinated and supported various projects and initiatives related to voice communication technologies, leveraging extensive knowledge in VoIP systems such as Cisco Unity Connection, Centrex, and Norstar.
* Utilized a range of applications for effective service management, including 2Nature, Tele Manager, Cisco CUCM, Bell Station CM, and Microsoft Office 2013/Office 365, enhancing operational efficiency and user satisfaction.
* Skilled in the implementation, installation, configuration, and troubleshooting of voice servers, ensuring high availability and performance of communication services.
* Expertly configure and troubleshoot digital communication circuits including T1 and E1 PRI, employing protocols such as MGCP, H.323, and SIP on voice gateways, to maintain robust and reliable voice communications infrastructure.
* Managed virtual environments using VMware ESXi, facilitating efficient server provisioning and maintenance, and ensuring system integrity and resource optimization.

**Atelka Telecom Montreal, Quebec Oct 2016 – May 2017**

**Technical Support Engineer**

**Responsibilities:**

* Conducted comprehensive coverage and failure analysis of VoIP and data networks, along with providing robust system support for Windows Server 2003/2008/2012 and Linux distributions including Red Hat and Ubuntu.
* Delivered 24x7 troubleshooting and resolution of LAN/WAN performance issues and connectivity problems, alongside managing Active Directory configurations and role assignments.
* Employed advanced network performance monitoring tools such as Wireshark, SolarWinds, and Cisco Prime to ensure optimal network operations and to identify and address emerging issues proactively.
* Maintained, monitored, and troubleshoot network-based services including DHCP and DNS, ensuring reliable network functionality and performance across organizational operations.
* System Engineer Elcome Integrated Systems Nov 2011 - Aug 2014
* Conducted unit testing, system testing, and integration testing.
* Developed SQL queries in Oracle and provided Level 3 support for issue resolution.
* Supported global customers by customizing and troubleshooting Windows Server 2008, Microsoft Azure, and RHEL/Centos configurations through our global queue system.
* Assisted User Acceptance Testing (UAT) and regression testing teams in preparing test plans.
* Managed project support tasks including effort tracking, issue tracking, and defect tracking.
* Installed, configured, and integrated various services such as Linux Server setup, DNS, DHCP, NFS, Samba, and SSH.
* Administered and installed patches and software packages.
* Managed and resolved incident tickets opened by clients and those logged by the event monitoring system. Authored scripts for cron job entries and maintained various log files.
* Contributed to documentation, enabling the 24/7 operations department to troubleshoot and resolve issues independently.

**Siemens India Ltd , India June 2010 - July 2011**

**Control System Intern**

**Responsibilities:**

* Designed and implemented a fault tolerance fail-safe system using the Siemens S7-400H PLC, one of the latest redundant systems from the SIMATIC S7 system family, ensuring high reliability through duplicated components.
* Completed specialized training on the SIMATIC S7-400H Hot Standby System PLC, gaining advanced skills in managing and optimizing industrial automation processes.
* Established synchronized communication by connecting two S7-400H PLC units using Profibus cables, enhancing system integration and data transfer reliability.
* Conducted operational tests on fault-tolerant systems by integrating a DC motor into the PLC system, verifying system performance under various conditions.
* Installed transmitters and sensors within water distribution channels, enabling precise leakage detection from pipelines to improve maintenance response times and prevent system downtime.
* Automated the generation of log reports on a central system every hour, streamlining data collection and monitoring for enhanced decision-making and operational oversight.