

Shahrukh Farrukh
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Summary

- Senior Cloud DevOps Engineer with 8+ years of experience in IT, specialising in cloud platforms (Azure, AWS, GCP), CI/CD, and infrastructure automation for both public and private cloud services.
- Expert in Azure services, including cloud services, storage, Active Directory, Resource Manager, VMs, SQL Database, and more. Proficient in Azure scalability, availability, and disaster recovery solutions.
- Skilled in AWS cloud services, including EC2, S3, VPC, Lambda, and various database and networking solutions. Experienced in serverless architecture implementation and infrastructure-as-code using CloudFormation and Terraform.
- Proficient in containerization technologies, particularly Docker and Kubernetes, for deploying, scaling, and managing applications across different environments.
- Expertise in CI/CD implementation using tools like Jenkins, AWS Code Pipeline, and integrating with version control systems like Git.
- Experienced in configuration management and automation tools such as Ansible, Chef, and Puppet for streamlined deployment and configuration processes.
- Skilled in setting up and managing monitoring and logging solutions, including Prometheus, Grafana, ELK stack, AWS CloudWatch, and Azure Monitor.
- Strong programming skills in various languages and scripting tools, including Python, Bash, PowerShell, Ruby, and Groovy, for automating administrative tasks and build/release processes.
- Knowledgeable in implementing Service-Oriented Architecture (SOA) using XML-based SOAP and RESTful API Web Services.

Technical Skills

Operating System	Red Hat Linux 5/6/7/8/9, Cent OS 5/6/7/8, Ubuntu 12.04 to 22.04 and OEL 6/7/8, SUSE Linux, IBM AIX, Windows 2008, 2008 R2/2012 R2/2016 till 2021, and Citrix Desktops.
Third Party Tools	Veritas Volume Manager, Logical Volume Manager, RAID, Veritas Cluster, Red hat Cluster, VMware ESX Technologies.
Containerization Tools	Docker, Podman and k8's (AKS, EKS and Open Shift)
Web Application Server	Web Application Server Tomcat, Apache, Web logic Web sphere JBoss.
Programming Languages	Bash, Python, Perl, Power shell, Groovy, Ruby.
Ticketing Tool	Service Now and JIRA.
Load Balancers	F5, Avi and Nginx.
DevOps Tools	CI/CD, Jenkins, Git, GitHub, GitHub Actions, Gitlab, Gitlab Runners, CFT and Terraform Tool
Cloud	AWS, Azure & OpenStack.
Hardware	Cisco UCS, Dell, HP, EMC, NetApp.

Monitoring Tools	Grafana, Prometheus, Nagios, Splunk, Zabbix, Dynatrace and AppDynamics.
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Education

- Associate of Arts in Information Technology from Collin College (04/2022)
- Associate of Science in Computer Systems Analysis from Collin College (06/2023)

Experience

Senior Cloud Engineer
T-Mobile Allen, TX

Mar 2023 - Present

Roles and Responsibilities:

- Developed automation tools for deployment, administration, and monitoring of large-scale AWS Linux environments.
- Implemented ELK stack (Elasticsearch, Logstash, Kibana) for log analytics and application monitoring, integrated with AWS CloudWatch.
- Designed and documented CI/CD tools and configuration management processes.
- Expertise in Chef for infrastructure provisioning, including server setup, node bootstrapping, and cookbook creation. Integrated Chef with Jenkins and Git for continuous delivery pipelines.
- Proficient in version control (Git), build tools (Maven, Ant), and CI/CD tools (Jenkins). Experience with various code types including SQL, Scala, Java, and .NET.
- Implemented continuous delivery across development, test, and production environments using Maven and SonarQube.
- Utilised AWS services extensively, including EC2 for hosting tools and S3 for storage. Created best practices to build environments using Jenkins, Packer, and AWS.
- Experience with containerization using Docker, including image creation and container deployment. Worked on Docker Swarm for scaling and managing multiple services.
- Conducted vulnerability assessments on Windows systems.
- Involved in Windows server building, configuration, and hardware upgrades.
- Performed performance analysis, tuning, and optimization of virtual machines.
- Implemented failover configurations on Windows Server 2008 for high availability.
- Implemented security best practices for AKS clusters, including network policies, RBAC, and secrets management.
- Support of Identity and Access Management (IAM) and Role Based Access Control issues.
- Configuration and troubleshooting of application performance issues such as memory, servers, CPU, AD, Docker, Databases.

Cloud Engineer
Johnson & Johnson Houston, TX

Nov 2021 – Mar 2023

Roles and Responsibilities:

- Conducted vulnerability assessments on Windows systems.
- Involved in Windows server building, configuration, and hardware upgrades.

- Performed performance analysis, tuning, and optimization of virtual machines.
- Implemented failover configurations on Windows Server 2008 for high availability.
- Orchestrated automated deployments using AWS CloudFormation, enabling consistent and repeatable infrastructure provisioning.
- Designed and implemented highly available, scalable, and fault-tolerant systems on AWS, ensuring robust and resilient architectures.
- Proficiently provisioned EC2 instances using diverse Amazon Machine Images (AMIs), tailoring deployments to specific requirements.
- Expertly configured and maintained Virtual Private Clouds (VPCs), including setup of NAT instances and Elastic Load Balancers (ELB) for efficient traffic management across public and private subnets.
- Implemented comprehensive EC2 instance management, including creation of custom AMIs and management of EBS snapshots for backup and recovery strategies.
- Designed and managed network architectures with public and private subnets, optimizing for security and performance.
- Configured granular security groups to enforce strict access control for web applications and database tiers, enhancing overall system security.
- Implemented and managed Route 53 DNS services for efficient domain name resolution and traffic routing.
- Leveraged Amazon RDS to implement and manage robust database solutions, ensuring high availability and performance for applications.
- Implemented auto-scaling configurations in conjunction with load balancing to ensure optimal performance and cost-efficiency for web platforms.
- Utilized AWS Identity and Access Management (IAM) to create and manage user accounts, roles, and groups, enforcing the principle of least privilege.
- Configured S3 bucket versioning and lifecycle policies for efficient data management, including automated archiving to Glacier for long-term storage.
- Implemented comprehensive monitoring solutions using CloudWatch and Simple Notification Service (SNS) to track server performance metrics and set up automated alerts.
- Managed complex VPC configurations, including network design, subnet allocation, Access Control Lists (ACLs), Internet Gateways, and routing tables, ensuring secure and efficient network topologies.
- Administered and optimised MySQL/MariaDB databases, ensuring data integrity, performance, and availability.
- Oversaw development and test environments, facilitating smooth workflows and ensuring consistency across different stages of development.
- Leveraged AWS developer tools including Code Deploy, Code Pipeline, and Code Commit to streamline the development and deployment processes.
- Utilised JIRA for comprehensive project tracking, enhancing team collaboration and workflow management.

Linux Admin
UPS, NJ

May 2018 – Oct 2021

Roles and Responsibilities:

- Orchestrated multi-platform server deployments, including Linux on VMware and HP ProLiant DL Series, utilizing Virtual Client Infrastructure Console and Integrated Lights-Out (ILO) for streamlined management.
- Designed and implemented automated installation processes using Jumpstart and Kickstart, complemented by custom post-install scripts for SUN Solaris and Red Hat Enterprise Linux (RHEL) environments.
- Demonstrated expertise in AIX Logical Partition (LPAR) configuration and management across IBM Power Systems (P5, P6, P7), leveraging Power VM virtualization and Dynamic LPAR capabilities for optimal resource allocation.
- Executed comprehensive system upgrades, including Linux kernel updates via YUM and full version migrations (e.g., to RHEL 5.6), as well as Solaris upgrades (9 to 10) using Live Upgrade with meticulous post-upgrade procedures.
- Implemented robust software management strategies using Red Hat Package Manager (RPM), YUM, and custom repositories, ensuring system integrity and security compliance.
- Architected and managed complex storage solutions utilizing Veritas Volume Manager, Logical Volume Manager (LVM), and NetApp storage devices, optimizing performance and data availability.
- Designed and deployed SAN configurations with diverse storage arrays (HITACHI, EMC) for IBM AIX servers, ensuring high-performance data access and redundancy.
- Configured advanced NAS environments, including aggregates, volumes, and file systems, with emphasis on RAID configurations and efficient NFS exports for cross-platform accessibility.
- Implemented and fine-tuned core network services (TCP/IP, NFS, NIS, DNS) on Linux systems, ensuring seamless communication and name resolution across the infrastructure.
- Developed and maintained a centralized Sudo access management system, including automated distribution of subduers files, enhancing security and administrative control.
- Established secure remote access solutions using SSH, facilitating automated script execution and robust password management practices.
- Crafted sophisticated shell scripts (Bash, Korn, Bourne) for system administration tasks, performance monitoring, and automated file system maintenance, improving operational efficiency.
- Integrated cutting-edge DevOps tools (Packer, Vagrant, Ansible) to create automated deployment pipelines for development systems, enhancing consistency and reducing setup time.
- Spearheaded legacy system migrations to AWS using a combination of Packer, Terraform, and Ansible, ensuring smooth transitions and optimized cloud resource utilization.
- Developed advanced Python scripts utilizing Boto3 for AWS task automation, including EBS volume encryption and Lambda function scheduling, enhancing security and operational efficiency.
- Managed the deployment and migration of WebSphere Portal Server and IBM MQ across multiple platforms (AIX, Linux, Windows), ensuring application compatibility and performance.

Roles and Responsibilities:

- Led comprehensive environment upgrades, including ESXi, vCenter, VCO, vCNS, and vCops to their latest versions.
- Upgraded VM hardware components to meet vSphere requirements and tested VMware ThinApp upgrades.
- Implemented and configured Site Recovery Manager (SRM) 5.0 for disaster recovery.
- Managed Cisco UCS and HP c7000 blade systems, including firmware upgrades.
- Performed VM tools and hardware version upgrades, and migrated datastores to VMFS 5.
- Designed protection groups and recovery plans using SRM 5.0, adhering to VMware best practices.
- Executed VM migrations across clusters using various methods including v2v and WinSCP.
- Developed migration strategies and disaster recovery plans for SAN and NAS data.
- Administered EMC VNX/VMAX SAN storage and managed Fiber Channel configurations.
- Supported and managed Cisco MDS and Brocade DCX4 fiber channel switches.
- Participated in technical discussions for new technology acquisitions, including impact and risk analysis.
- Implemented Hyper-V in the existing environment.
- Conducted regular patching for Windows, Linux, and ESXi hosts, and managed McAfee updates on Windows machines.
- Applied group policies on SQL servers using SQL Server Management Studio.
- Worked with Cisco Nexus 1000V appliance and implemented TIBCO log logic server.
- Managed VM clones and snapshots, maintaining a well-organized virtual environment.
- Handling LVM related tasks, Creating, resizing LVM, Veritas Volume manager and managing Cluster environment using Veritas Cluster suite.
- Handling the day-to-day Operations, Troubleshooting & Solve Server Problems in LINUX
- Experience in implementing and configuring network services such as HTTP, DHCP, and TFTP.
- Developed Windows image catalogs in VCloud Director and created PowerShell scripts for guest OS customization.
- Managed vCenter Orchestrator plugins and developed workflows.
- Utilized MySQL Workbench for data management and created reports using JasperSoft.
- Administered Windows Active Directory domains and configured DNS/DHCP services.
- Deployed and configured load balancing and traffic management, using Microsoft cloud platform Azure.
- Administered Linux servers for several functions including managing Apache/Tomcat server, mail server and MySQL databases in both development and production.
- Conducted vulnerability assessments on Windows systems.
- Involved in Windows server building, configuration, and hardware upgrades.
- Performed performance analysis, tuning, and optimization of virtual machines.
- Implemented failover configurations on Windows Server 2008 for high availability.