**Nadeem Baig**

Sr. DevOps and Cloud Engineer | nadeem.baig992@gmail.com |+1 (217) 337-9898

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| **Professional Outline** |  |  |
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* Around **8+ Years** of IT industry experience as **Linux/Unix** Systems Administration, **AWS Cloud Engineer, DevOps** automation Engineer Worked extensively in many technical roles in **Linux** and **Windows** environments. Capable of quickly learning and delivering solutions as an individual and in a team Experienced with **Jenkins** as **Continuous Integration / Continuous Deployment** Tool.
* Expertise in improving build, **deployment** tools in **DevOps** through automation using scripting languages such as **JavaScript, Shell, Bash, Perl, JSON,** Ruby and **Python** etc Experience in handle tasks in **Red Hat Linux** including **RPMS using YUM and LVM file system.**
* Experience in installation, configuration, backup, recovery, maintenance, and support of **Linux RHEL 4/5/6/7/8/9.2SUSE**, **Solaris 8, 9 10, HP-UX 10.x, 11.x , AIX 5.x**, and **Windows NT/2000/2003**
* Very good knowledge in **AWS Cloud** IaaS platform with features **EC2, VPC, ELB, Auto-Scaling, Security Groups, Route53, IAM, EBS, AMI, RDS, S3**, SNS, SQS, Cloud Watch, Cloud Formation, Cloud Front, and Direct Connect. Extensively worked with Configuration Management tools like **Ansible, Chef** Extensive experience in setting up the **CI/CD** pipelines using **Jenkins, Maven**, Nexus, **GitHub, CHEF, Terraform** and **AWS.**
* A **cloud** enthusiastic team player having experience as a **DevOps Engineer** with proven expertise in Automation, Build/Release Engineering and **Software** development involving **cloud** computing platforms like **Amazon Web Services (AWS)**, Azure and **Google Cloud**.
* Experienced with **Web**/Enterprise Application **Deployment** Technology specifically including **Windows, Linux/Solaris, Apache, Tomcat, Jboss**,WebLogic, MS **SQL**, and **Oracle**. Worked on the Deployment, Configuration, Monitoring and Maintenance of Open Shift Container Platform.
* Experience in working with container-based deployments using **Docker, Docker** images, **Docker** file, Docker Hub, Docker Compose and Docker registries Handled large volumes of container **clusters** with **Docker** swarm, **Kubernetes**.
* Hands on experience in **GCP** services like **EC2, S3, ELB,RDS,SQS, EBS, AMI, SNS, RDS, EBS, Cloud Watch,, Cloud** Trail, **Cloud** Formation GCP Config, Auto scaling, Cloud Front, IAM, R53. Diagnose, troubleshoot, and resolve Dynatrace issues.
* Involved heavily in setting up the **CI/CD** pipeline using **GitHub, Jenkins, Maven,** Nexus**, Chef,** Cloud Formation and **AWS**.
* Responsible for Setup and build **AWS** infrastructure using resources VPC, **EC2, S3, RDS, Dynamo DB, IAM, EBS, Route53, SNS, SES, SQS**, **Cloud Watch**, Cloud Trail, Security Sound knowledge in Configuration management using **Chef** and **Ansible**.
* Experience with working on various middleware, DB and Network technologies - **DNS, LDAP, FTP, Tomcat** & **Apache** HTTP **servers.**
* Administrating and supporting **Kubernetes** (AKS) infrastructure ensuring it is secure, resilient and performance and responsible for complete **Devops** activities. Experience in **DevOps** practices, **Azure, AWS, Terraform, Jenkins, Ansible, Docker** and **Kubernetes**.
* Experience **DevOps Engineer** with Technical expertise in the areas of **Deployment** management with over emphasis on Installation, Configuration, Management of **Linux** OS **(RHEL,** CentOS, Ubuntu, SUSE **Linux** 10.x/11/12)**, Amazon Web Services, Windows Servers** in an **Agile** environment, and 3 Years of engineering the automation of OS in a **DevOps** environment such as (DEV, TEST, STAGE &amp; PROD).
* Expertise in deploying and configuring **Chef Server** including bootstrapping of **Chef** Client nodes for provisioning and creating roles, recipes, cookbooks, and Data Bags for **server** configuration. Knowledge of using Routed **Protocols: FTP, SSH, HTTP, TCP/IP, and HTTPS.**

**Technical Efficiency**



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| **Operating System** | Windows, Mac, Ubuntu, Linux (RedHat) VMware ESX, Hardware. |
| **Configuration Management** | Ansible, Chef, Puppet. |
| **Monitoring Tools** | Splunk, Nagios, ELK. |
| **Version Control Tools** | Git, GitHub, Bit Bucket, SVN, TFS. |
| **Programming languages** | Shell scripting, Unix Bourne shell, Korn shell, basic Perl, Python. |
| **Application Servers** | Apache Tomcat, WebLogic, WebSphere, Jboss. |
| **Cloud** | AWS, Microsoft Azure, Google Cloud Platform (GCP). |  |
| **Build Tools** | Maven, Ant, Docker, GIT. |  |
| **Continuous Integration Tools** | Hudson, Jenkins |  |
| **Protocols** | HTTP, TCP/IP, SOAP, SMTP, LAN, WAN, OAuth, SAML |  |
| **Web Tools** | JSP, PHP, XML, Spring Boot. Databases MYSQL, NOSQL |
| **Databases** | MySql, MongoDB, Cassandra, PostgreSQL, SQL Server |

**PROFESSIONAL EXPERIENCE**



**Booz Allen Hamilton, McLean, Virginia**

**Sr. DevOps and Cloud Engineer Nov 2021 – Present**

**Responsibilities**:

* Deployed **Cloud** services (PaaS role instances) and **Azure** IaaS Virtual machines (VMs) into secure subnets and VNets and designed Network Security Groups (NSGs) to control inbound and outbound access to network Interfaces (NICs), subnets and VMs.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Handled migration of on-premises applications to **cloud** and created resources in **cloud** to enable this and expert in deploying of OpenStack on **Azure** platform and handling issues related to RDP of **Azure** Infrastructure. Migration Wizard and used **Python** API to upload agent logs into **Azure** blob storage. Worked on **Google Cloud Platform(GCP)** services like compute engine, **cloud** load balancing, **cloud** storage, **cloud SQL**
* Created and configured HTTP Triggers in the **Azure** Functions with Application insights for monitoring and performing load testing on the applications using the **Azure DevOps**. Involved on migrating **SQL Server databases** to **SQL Azure Database** using **SQL Azure**
* Hands-on experience with Amazon **Web** services **(AWS)** and implemented solutions using **EC2**, S3, and RDS in **cloud** formation JSON templates, EBS, Elastic Load Balancer, Auto Scaling Groups, Auto scaling Launch Configuration and Auto scaling Lifecycle Hooks.
* Worked on **Continuous** Delivery project, streamlining Dev workflow, integrating automated QE validation, and delivering standardized releases based on **Docker** to Operations for deployment. Configured and monitored multiple **servers** using Teamcity and **Chef**.
* Experience with **Ansible** Tower to manage Multiple Nodes and Manage Inventory for different Environments. And also used **Ansible** to orchestrate **software** updates and verify functionality. Experience in architecting **Azure** IaaS**, Azure** Hybrid Identity**, Azure** Governance, **Azure web** jobs**, and Azure** search. Create RunDeck jobs to integrate with our **Jenkins** CI process and call **Chef** on the **deployment servers.**
* Involved in the functional usage and **deployment** of applications in **Web Logic, Web** Sphere, IIS and **Apache Tomcat Server**. Experience in using **Tomcat** and **Apache web servers** for deployments and for hosting tools. Used **Amazon web servers** for **continuous** delivery systems.
* Design, develop, test, and implement business applications using **Spring, Hibernate,** Web methods

and **Web Sphere Application Server**.

* Automate **Data dog** Dashboards with the stack through **Terraform** Scripts. Written **terraform** scripts for Cloud Watch Alerts.
* Worked with **Terraform** to create **AWS** components like **EC2**, IAM, VPC, ELB, Security groups.
* Hands on experience on Backup and restore **Azure** services. Designed and configured **Azure** Virtual Networks (VNets), subnets, Azure network settings, **DHCP** address blocks, DNS settings, and security policies and routing. Defined **Chef Server** and Workstation to manage and configure nodes.
* Create develop and test environments of different applications by provisioning **Kubernetes clusters** on **AWS** using **Docker, Ansible**, and **Terraform**. Responsible for creating **Jenkins** pipeline for **deployment** using **Ansible**.
* Experience in several **AWS** services **EC2**, VPC, S3, **Cloud Watch**, Auto scaling configurations etc.
* Experience in using Build Automation tools and **Continuous Integration** concepts by using tools like **ANT, Jenkins**, Teamcity, Quick Build, **Docker**,Build forge and **Maven**. Worked in **SCM** tools - **Chef** and **Puppet** for **Deployment** on Multiple platforms.
* Inventoried and administered **Red Hat** Enterprise **Linux (RHEL),** FreeBSD, and **VMwareESXi servers**, writing several utilities to manage them simultaneously.
* Installing **RedHat Linux** using kickstart and applying security polices for hardening the server based on the company policies.
* Experience in Implementation of **Office365** and **Azure** Active Directory for single sign on (SSO), authentication, authorization, and **Azure** Role-based Access Control
* Experience in **Azure Services** like **PaaS**, IaaS and has worked on storages like   
  Blob (Page and Block), SQL Azure. Worked on deploying & configuration management and Virtualization

**Alorica, Irvine, California**

**Cloud Engineer NOV 2019 – OCT2021**

**Responsibilities**:

* Manage source control repository in Subversion- controlling and monitoring check-in&#39;s&**amp**; create tags for builds. Involved in Chef-infra maintenance including backup/monitoring/security fix and on **Chef** Server backups. Implemented **AzureAPIM** modules for public facing subscription-based authentication. Deployed clusters using Json template and power shell in **AZURE**.
* Helped setting up highly scalable, high performance continuous delivery **pipeline** for **AWSECS** using **Jenkins**, **GitHub**, and **AWSECR**.
* Helped navigating the tricky waters of continuous deployment using **Jenkins** build pipelines and database **migrations** to strive for zero downtime deployments. Lead for migration from on-premises to **AzureCloud** and created customer images for **VM’s**.
* Proficient in integrating **TFS** with share point **SSRS** and project server. Handled **Azure** administration and continuous integration.
* Solving various .net application issues and providing various technical solutions for .net TFS and Microsoft IIS
* Administrator of user accounts and managing their permissions, hands on experience on troubleshooting the connection issues of users with TFS.
* Configured **Jenkins** to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Installed **Jenkins** and operated master and slave configuration to implement multiple parallel builds through a build farm. Extensively worked on **Jenkins** for continuous integration and for End to End automation for all build and deployments and managed artifacts generated by **Jenkins**.
* Played a key role in automating the deployments on **AWS** using **GitHub**, **Terraform**, **Puppet**, **Chef** and **Jenkins**.
* Installed and configured Cassandra cluster and **CQL** on the **cluster**. Involved in automating and implementing **Apache Cassandra** on all the nodes in the production. Worked in setting up Cassandra wide monitoring scripts and alerting system.
* Exposed Virtual machines and cloud services in the **VNets** to the Internet using **Azure** External Installed, configured, administered, monitored **Azure**, **IAAS**, **PAAS** and **AzureAD**. Used **WindowsAzure** portal to manage Virtual **Network** and Traffic Manager.
* Supported and deployed network infrastructure in a multi-vendor environment including **Cisco**, 3Com routers, switches, and remote servers.
* Worked on **DevOps** essential tools like **Chef**, **Puppet**, **Ansible**, **Docker**, **Kubernetes**, **and Subversion**. Created managed, monitored Web site using
* Windows Azure portal admin. Have good knowledge in utilizing **Cloud** software like open stack and **Cloud** stack.
* Worked on container-based deployments using **Docker** and cluster management environment **Kubernetes**. Created **Docker** images using a **Docker** file, worked on **Docker** container **snapshots**, removing images and managing Docker volumes
* Experienced in all phases of the software development life cycle (**SDLC**) with specific focus on the build and release of quality software.
* Excellent experience in documenting and automating the build and release process using **GIT**, **Jenkins**, **Ansible**, and **Chef**.
* Involved in the functional usage and deployment of applications in **JBoss**, **WebSphere** and **Apache Tomcat** Server.
* Experience in working on version control systems like Subversion (SVN) and **GIT**, Clear Case, Stash used Source code management client tools like Visual **SVN**, **TortoiseSVN**, **Stash**, Source Tree, **GitBash**, **GitHub**, **GitGUI** and other command line applications etc.
* Extensive experience includes **SCM**, Change/Incident Management, **VMware** and **AWS** Cloud computing.
* Responsible for design, implementation and success of **Terraform** Infrastructure as Code to migrate automation of very large
* Experienced in implementing **AWS** services like **S3, IAM, VPC, Route53, ELB, EBS, Cloud Front**, Glacier, Cloud Watch, **SQS, SNS, Cloud Trail, RDS**.
* Experienced in assisting Application Teams across remote and local geographical locations as part of Support experience in creating complex IAM policies for delegated administration within **AWS**. Worked on setting up life cycle policies to back up the data from **AWS S3** to **AWS** Glacier.
* Administration of **Red Hat** Enterprise **Linux6.x/7.x** and CentOS includes installation, testing, tuning, upgrading, patching and troubleshooting day- to-day issues. Deployed Different kinds of **AWS** storage gateways for moving the on-prem data to **AWS** and utilize various services like S3, Glaciers, EBS volumes. Worked at optimizing volumes and EC2 instances and created multiple VPC instances.
* Migrated on premise database to **AWS** Cloud and designed, built, and deployed a multitude of applications utilizing the **AWS** stack (**Including EC2, R53, S3, RDS, SNS, and IAM**), by focusing on high-availability, fault tolerance, and auto-scaling with **OpsCode** chef cookbooks and recipes. Used Chef to manage **Web** Applications, **Config** Files, Data Base, Commands, Users, Mount Points, and Packages
* Defined **AWS** Security Groups, which acted as virtual firewalls that controlled the traffic allowed reaching one or more **AWSEC2instances**. Worked on Multiple **AWS** instances, set the security groups, Elastic Load Balancer and AMIs, auto scaling to design cost effective, fault tolerant and highly available systems. Developed **terraform** scripts to build, change and version infrastructure as code using AWS as provider and launch multi-tiered stack to be provisioned and configured with **terraform** scripts. Created, managed, and monitored VM using Windows Azure portal admin.
* Configured the Server less architecture using **AWSLambda** and worked on Application Migration and **DataMigration** from On-Premises to **AWSCloud**. Configured and maintained the **AWSLambda** function to trigger when there is a **Jenkins** build kicked off, which internally gets stored on **AWS** S3 **bucket** for everybody to access. Experience in administering and automation using **Puppet**, **Chef**, **Ansible** and **Salt stack**.

**Ford Motor Company, Dearborn, Michigan**

**Linux/VMware System Administrator Aug 2016 – Nov 2018**

**Responsibilities:**

* Installed, maintained, and upgraded **Red Hat Linux** and **CentOS** Servers using kickstart based network **installation**.
* Building **software** packages on **Red Hat Linux** (RPM) and **Ansible** for package management and deployment.
* Wrote tools in **Perl** to login & interrogate Sun **ILOM & XSCF**&**HP ILO** via **SSH** and **telnet**.
* Installed and implemented **NAS** with **RAID** 1 and **RAID** 5 configurations.
* Patching the servers for **Oracle** install, which include different required **RPM** installation on the servers. **LDAP**, **SSL** integration, which require communication with **LDAP** team. Handling a **JBOSS** application server **PPM** application and Quality Center.
* Expertise in creating and managing Logical Volume Manager in **AIX, HP-UX** and **Redhat Linux**
* Troubleshooting **vSphereESX/ESXi 4.0/4.1/5.0/5.1/5.5, ESXi Clusters**, Host Profiles, vDistributed Switches**, HA, DRS, vMotion**, Storage **vMotion**, Fault Tolerance, Resource pools, vCenter Permissions, Snapshots, Templates, snapshots, Disaster Recovery (DR) and High Availability (HA) using PowerCLI and Remote CLI.
* Created scripts to schedule multiple Cron jobs in **Linux** Environments and scheduled multiple jobs using Task manager in **Windows** Environments.
* Installed, configured and deployed **Oracle 11g**, **Mongo DB** Databases for several applications.
* Hands on experience in **monitoring** Server infrastructure with Solarwinds Orion and CLI tools for performance Analysis and **trouble shooting**.
* Setup and Configured **Red Hat** Satellite, **Spacewalk**, **Puppet/Cobbler** and Kickstart Servers for **Red Hat** Enterprise **Linux/CentOS5/6/7** installs and **RHN** Push Updates.
* Built and configured **Red Hat** Enterprise **Linux** virtual servers and virtual servers for software programming and testing.
* Capacity planning of disk space and hardware resources required for production and developments.
* Responsible for migrating and decommissioning of the system.
* Built physical **Red Hat** Enterprise **Linux**servers, **Red Hat** Certificate Authority, Solaris servers and **Windows** servers.
* Responsible to handle the **Server** Administration and Asterisk Server Installation and Configuration in **Linux**.
* Worked as part of Testing Team in Application testing using Manual methods and Scripts.
* Extensive use of **HMC**, **IVM** for creating, assigning and allocating disks, virtual adapter. Concept of VHOST.
* Supported **Oracle9i, 10g**, database server applications on **Redhat4.x, 5.x servers**.
* Installation, Configure, setup of **10g RAC** on **LINUX** cluster with **SAN** storage
* Administrative tasks such as System Startup/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management, dumb terminals and devices carried out.
* Develop advanced **Bash shell script** tools and **DevOps Ansible** tools and efficiently apply them to system monitoring and automation
* Build and configure **Red Hat** Satellite server that manages many **RHEL** hosts and servers, and efficiently provides and distributes updated **Red Hat** Enterprise **Linux** software patches and **Red Hat** Enterprise **Linux** security patches to many RHEL hosts and servers within intranet and local network on any scheduled software patching day.
* Wrote tools in **Perl & shell** to run parallel SSH connections to remediate configs & QA on several thousand hosts.
* Configured and maintained the volume groups, logical volumes using **LVM**, **VERITAS** Volume Manager and Solaris Volume Manager.

**Procter &Gamble, Ohio**

**Linux/Unix Systems Administrator Apr 2015 – July 2016**

**Responsibilities:**

* Installed, Configured and maintained **Red Hat Linux**, CentOS and **Windows Servers**.
* Installation, **configuration**, and administration of IBM Web Sphere Application server v6.0. And Web Logic Servers.
* Installation and configuration of **Apache** and **Tomcat web servers**.
* Installed **AIX** and performed the operating system upgrade flawlessly. Updating the existing applications and adding new ones without incident. Carried out a variety of backup solutions under various system constraints
* Involved in Storage management, **LVM**, File system management, User account management, **data** backups and user’s logon support.
* Involved in testing of products and documentation of necessary changes required in this environment.
* Good working knowledge of **installing**, configuring, and upgrading Blade Center’s Management Module.
* Monitored **networks**/**servers** for irregularities and addressed issues as needed
* Administer local and remote 100% Command Line Interface (CLI) **Red Hat** Enterprise **Linux** servers (**Web servers, Monitor servers, Utility servers, Database** servers & Map servers Installed, **configured** and maintained mission critical systems including **DNS**, **DHCP**, Sendmail.
* Performed networks/server’s vulnerability tests to protect against unauthorized access
* Installed and maintained Antivirus solutions to provide customers with comprehensive centralized Antivirus scanning for co-located servers. Utilize Kickstart and YUM to build and patch **Linux** servers.
* Research, stage and implement new patches, rollouts and upgrades for various application and hardware to maximize integrity and efficiency of the system. Test new software and configurations in **VMware**
* Develop and maintain highly available services including **Linux** clustering and redundant **web services**.
* Administer SharePoint portal and remedy ticketing system to coordinate events and end user issues.
* Provided midlevel customer service and technical support to clients.
* Responded to requests, managed and reassigned trouble tickets generated by internal and external customers.  Worked on **Windows** Servers /**Workstations** Environment.
* Involved in on-call pager rotation for production support; Demonstrated skill in supporting end users and proven ability to plan, organize and work as a member of a technical project team, both in small groups as well as large corporate areas.
* Experience in Server build using Jumpstart and **HPSA** Process on multiple servers.
* System builds from the scratch for **UNIX** and **Linux** system using manual and automated (Jumpstart, Kick start) installation
* **Unix** systems and network administration for workgroup and enterprise class environments (internal and customer) on Solaris platforms.