**Profile Summary:**

* IT professional with **10+years** of experience which includes implementation of **Devops** and **Linux** System Administration along with creating and implementing a cloud strategy based on **Amazon Web Services (AWS)** DevOps experience in Unix and Linux environment.
* Certified in **Red Hat Certified System Administrator** (RHCSA), **Red Hat Certified Engineer** (RHCE), **AWS SAA-03 and AZ-900.**
* Proficient in **AWS** Cloud platform and its features which includes **EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation, Auto scaling, Cloud Front, IAM, S3,** and**R53**
* Enterprise-level experience - Working with large teams and involved in architecture of highly scalable, secure, distributed applications, aligned with company standards, process, methodologies, and best practices.
* Configured **AWS CloudWatch**, Cloud tail, Simple notification service **(SNS)** for real time monitoring and alerting of deployed applications and **EC2** instances.
* Implemented for high availability using **AWS** Elastic load balancer (**ELB**), to perform load balancing Across multiple availability zones.
* Configuration management/provisioning tools like **CHEF**, **ANSIBLE** and **PUPPET**.
* Expert in deploying the code through web application servers like **Apache Tomcat**, **WebSphere**
* Worked with build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as .war &. ear from source code.
* Familiar with most popular scripting, and languages **Python**, **Perl, PowerShell**.
* Experience in **Agile Development**- **JIRA** for management of agile team projects, application cluster deployments, Load Balancing and Fail over functionality in clustered environment.
* Experience with networking load balancers such as **Nginx**, **HAProxy.**
* Experience in source code management tools such as **SVN**, **GIT**.
* Extensive experience in designing and implementation of continuous integration, continuous delivery, continuous deployment through **Jenkins**.
* Experience in Monitoring teams to identify and troubleshoot issues on servers using **Nagios** tool.
* Performed Remote system administration using Network protocol tools like **SSH**, **HTTP, RSH, telnet**, **SCP, FTP, SFTP, SSL, RSA** secure connection and Rlogins. Experience in applying security patches and updating Redhat **Linux** OS version using **Red Hat** Satellite server.
* Expertise in Installation, Configuration and file system management through VERITAS Volume Manager, **VERITAS** File System, Solstice Disk Suite and **Logical Volume Manager** with multiple **RAID** Levels.
* Installation and configuration of Apache/**Web** logic on **Solaris**, **Red hat** **Linux**, and SUSE **Linux**
* Deployment of container orchestration systems such as **AWS ECS, EKS** and **Docker**.
* Worked in agile projects delivering end to end CI/CD delivery pipeline by integration of tools like **Jenkins, Ansible, Dockers, terraform, AWS** for VM provision.
* Designed, implemented, and maintained highly scalable and available **Kubernetes** clusters on AWS and Azure.
* Implemented and optimized **Amazon Redshift** data warehouse solutions, enabling efficient storage and retrieval of large-scale datasets, resulting in improved analytics performance reduced query response times.
* Designed and implemented ETL processes to extract data from various sources, transform it into a suitable format and load it into Amazon Redshift, ensuring data accuracy and consistency.
* Installed and configured **Redhat Satellite** as per client requirements. Providing them with patch, package and configuration management.
* Proficient in setting up Monitoring & Alerting process using Prometheus, Grafana to monitor VMs, CICD Applications, Containers and Kubernetes Cluster.
* Deep knowledge of Object-oriented programming and Software Development life cycle.

**Technical Skills**

|  |  |
| --- | --- |
| **Operating Systems** | Redhat Linux 5/6/7/8, Unix, Ubuntu, CentOS, SuseLinux |
| **Cloud Technologies** | Amazon Web Services & Azure Fundamentals |
| **AWS Services** | EC2, Elastic Beanstalk, EFS, VPC, RDS, S3, Glacier, IAM, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Lambda Function, Glue Route53, SNS, SQS, API Gateway, etc. |
| **Configuration Management Tool** | Chef, Puppet, Ansible |
| **Build & CI/CD Tools** | MAVEN, Jenkins |
| **Scripting Languages** | Python, Shell scripting, Yaml |
| **Version Control Tools** | Git, GitHub |
| **Monitoring Tools** | Microfocus, Cloud watch, ServiceNow |
| **Application Level** | Shell Scripts (Linux, PowerShell). |
| **Containers & Orchestration** | Docker & Kubernetes |
| **Infrastructure & Configuration Tools** | Cloud formation, Terraform |

**Academic Qualifications**: Bachelors of Technology in India,2011.

**Professional Experience:**

|  |  |
| --- | --- |
| **Solenis IT - Wilmington, DE. (Project.1 🡪 Project Crown)** | **April 2019 to till date** |
| **Role: AWS DevOps Cloud Engineer/Senior Linux Administrator** |  |

* Support Continuous Development for projects - Manage **Gitlab**, **branching strategies**, **developer workflow.**
* Automated **Configuration Management** of different servers like Dev, QA, Build or Production using **Ansible.**
* Automate Formal Builds like **Continuous Integration**, **Full/Nightly Build**, **Release**, **Integration pipelines.**
* Automate **Continuous Delivery** & **Deployment pipelines.**
* Automated Kubernetes Deployments using **Gitops** & **Helm**
* Tracking and keeping all the automation scripts with the source code management tool ‘**Git’.**
* Managing the working environments through configuration management tool **Ansible.**
* Responsible for **configuring** and **maintaining** Docker environments for developers and testers by using **Docker build** & **compose**.
* Created micro services based architectures using AWS Lambda to achieve granular and scalable application components.
* Implemented API endpoints with AWS API Gateway, enabling seamless integration with Lambda functions.
* Deployed and managed Lambda functions using AWS Console, AWS Command Line Interface (CLI), and AWS CloudFormation templates. Utilized versioning and aliases to ensure controlled deployment.
* Extensively worked on **Jenkins**, Configuring **Jenkins job** with related plug-in for CI, CD and static code analysis using **SonarQube** and artifact storage as **JFrog**.
* Focus on CI/CD automation leveraging AWS DevOps, bitbucket, and GitHub to automate the deployment of applications to Azure cloud, GCP, and AWS.
* Worked in container-based technologies like **Docker** and **Kubernetes**, creating Docker file, and automating Docker image creation using Jenkins and Docker
* Deploy an application that is containerized using **Docker** onto a **Kubernetes** cluster which is managed by Amazon elastic container service for **Kubernetes** (EKS).
* Worked on containerization tools Docker to launch the **containers**, create and **manage** the **images**.
* Created **Jenkins jobs** and worked on setup **Jenkins’s server** & **nodes** for distributing the Jenkins jobs.
* Expertise in the **Jenkins** plugin management and implemented several **CI/CD** plugins like EC2, build Pipeline, Docker, Git, and Pipeline plugins.
* Strong understanding in writing the automation of processes using the **shell** **script** with bash and Python.
* Good Experience in architecting and configuring secure cloud **VPC** using private and public networks through subnets in AWS and Development of test framework using the **python**.
* Initiating alarms in **CloudWatch** service for monitoring the server’s performance, CPU Utilization, disk usage etc. to take recommended actions for better performance.
* Automated infrastructure tools for AWS services (**EC2, VPC, ELB, R53 S3, IAM)** using Python & AWS APIs
* Created and managed configuration files that control caching on Cloud Flare and Amazon Cloud Front
* Design **AWS Cloud Formation** templates to create custom sized **VPC**, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Configured **AWS Multi Factor Authentication** in IAM to implement 2 step authentication of user's access using Google Authenticator and AWS Virtual **MFA**.
* Collaborated with development teams to design and implement continuous deployment pipelines for **Kubernetes** applications.
* Managed **Kubernetes** clusters and applications using Helm, **Kubeadm**, and other **Kubernetes** tools.
* Managing **SFTP** utility in the EC2 machines and also involved in SFTP server less using AWS Transfer Family.
* Deploying resources by writing Infrastructure-As-Code (IaaC), using tools like **CloudFormation** and **Terraform**.
* Created AWS Multi-Factor Authentication (**MFA**) for instance **RDP/ SSH** logon, worked with teams to lockdown security groups and Deploy applications on AWS by using **Elastic Beanstalk.**
* Development of automation of **Kubernetes clusters** with **Ansible**, writing playbooks. Develop and maintain automated **CI/CD** pipelines for code deployment using **Jenkins**.
* Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable Artifacts such as War, Jar from Source Code.
* Experience in Package Management using **Red Hat** RPM/**YUM** and **Red Hat** Satellite server.
* Configured LDAP Client on **Linux** machines for authorization and authentication. Patched up the systems with the **Linux** **servers** and created tickets for the respective services.
* Managed and configured **Linux** **Red Hat** environment and tools like Satellite, **Ansible** Tower to have maximum system scalability, reliability and security.
* Automated various infrastructure activities like Continuous Deployment using **Ansible** Playbooks and have Integrated **Ansible** with **Jenkins**.
* Installation, configuration and administration of Jboss, Apache, WebLogic, **Tomcat** and WebSphere.

**Environment:** AWS**,** Redhat Linux 6/7/8, GIT, GITHUB, Maven, Jenkins, SonarQube, Ansible, Terraform, Docker, Kubernetes, Ubuntu, Python, Shell, VMware, Java, Ant, SVN, Apache Webserver, Jboss, JIRA.

|  |  |
| --- | --- |
| **Solenis IT - Wilmington, DE. (Project.2 🡪 Infra Structure )** | **April 2018 to March 2019** |
| **Role: DevOps / Linux Engineer (DevOps, AWS, Redhat Linux/IBM AIX)** |  |

* Involved in deployment of full **Software Development Life Cycle** (SDLC) of the tracking systems Requirement gathering, Conceptual design, Analysis, Detail design, Development, System Testing, and User Acceptance.
* Develop infrastructure as code using Terraform/Puppet/ CloudFormation tools.
* Build Dev environment - APIGateway, NAS storage, DynamoDB, Linux/windows deployments.
* Automate provisioning and repetitive tasks using **Terraform** and **Docker** container, Service Orchestration.
* Understand and develop Cloudops infrastructure architecture using the **IaaC** using the **Terraform.**
* Extensive experience in setting up the CI/CD pipelines using **Jenkins**, **Maven**, **Nexus**, **GitHub**, **CHEF**, **Terraform** and **Cloudops**.
* Modify existing deployments to correct errors, allow it to adapt to new updates, or to improve its performance.
* Supervise the Applications and deployments and technologists of other engineering and developers.
* Assisted in designing, building, and maintaining database to analyze life cycle of checking and debit transactions.
* **CloudOps** API and UI functionality development testing for every release.
* Resolving the EPDSM tickets like: providing Self services, **NAS storage**, role management to the **VM’s** deployed.
* Develop auto scaling/Auto-zone/Load balancing Cloudops Infrastructure architecture.
* Configure ESC role/image/windows role groups, **LB, GLB, VPC,** Auto Scaling configurations, Security group based on the CloudOps Architecture
* Coordinate software system installation and monitor equipment functioning to ensure specifications are met. Regressive testing - end to end to testing for all releases.
* Work with Network/security/cloud teams and follow standards and policies.
* Workflow monitoring and dealing with the failures form Dev, R&D and Prod environmental user **Puppet**, **Linux**, **VMware** and **cloudopsUI**.
* Optimized **Kubernetes** clusters for performance and reliability using techniques such as autoscaling, resource management, and networking.
* Implemented and maintained security policies for **Kubernetes** clusters and applications.
* Work on **Docker** containers snapshots, attaching it to a running container, removing the images, managing the containers and setting up environment for development and testing for the redirection of ports and volume.
* System testing for all development tasks based **Pivotal Tracker’s** visualized stories
* Manage **EPDSM ticket** assignments and time tracking systems promptly according to departmental standards. Working with the CloudOps Support, Raising Service Requests.
* Debugging the failure issues by capturing the array and register dumps using **python scripts**, traces and performing server experiments by interacting with the application teams.
* Designed and implemented Continuous Integration and Continuous Deployment frameworks from code to deploy using **Jenkins**. Installed **Jenkins**/Plugins for GIT Repository, Setup SCM Polling for Immediate
* Configured SSH, SMTP, Build Tools and Source Control repositories in **Jenkins**. Installed multiple plugins to **Jenkins**.
* Strong experience in installation, configuration, maintenance and troubleshooting of **Red Hat** **Linux**, **SUSE** **Linux**, **Ubuntu, Fedora, CentOS, Sun Solaris, Windows Servers**.
* Experience in **Unix**/**Linux** Networking services and protocols like **TCP, SMTP, HTTP, LDAP, DNS, NFS, DHCP, NAS, FTP, SSH**, and **SAMBA**.
* Using ANT, Puppet/ Chef Scripts with Ivy to build the application and deploy.

**Environment**: Redhat 6/7/8, Ubuntu, CI/CD, AWS, Shell, JENKINS, Docker, AWS EC2, CloudFront, cloud watch, RDS, Docker, Kubernetes, Terraform, Maven, Jenkins, GIT, SVN, JIRA, Ansible, Nagios, Shell scripting, Python Scripting

|  |  |
| --- | --- |
| **Wells Fargo/IBM – Charlotte, NC** | **April 2017 to Feb 2018** |
| **Role: Senior Operational Professional (AWS, DevOps, RHEL & IBM AIX)** |  |

* Setup/Managing Linux Servers on **AWS (EC2, EBS, ELB, SSL, Security Groups, RDS and IAM).**
* Setup/Managing VPC, Subnets, make connection between different zones and blocking suspicious Ip/subnet via ACL.
* Involving in day-to-day monitoring activities of **RHEL5**/**6/7** machines and Application Servers, Build and Deployments of web services. Support the code builds by integrating with continuous integration tool(**Jenkins**).
* Written **Maven** scripts, Installed **Jenkins**, written shell script for end-to-end build and deployment automation.
* Built Continuous Integration environment (**Jenkins**). And Continuous delivery environment(Puppet).
* Integrated delivery (**CI and CD** process) Using **Jenkins** and **puppet**.
* Able to create scripts for system administration, **AWS** and Azure using languages such as PowerShell and Python.
* Conducted statistical analysis on students’ demographic, identified target consumer.
* Work closely with business partners and team members to prioritize, define, develop, and deploy new features for reports.
* Experience with **Kubernetes**-based infrastructure as code tools such as Terraform and Ansible.
* Working knowledge of the Software **Development Lifecycle** and associated processes.
* Ability to perform daily **OS Maintenance**, **installations**, **OS upgrades**, user account maintenance.
* Developing of **data structures, XML** parsing using **python**.
* Perform hardware **configuration**, **operating system loads**, and assist with **troubleshooting** **installation issues**.
* Troubleshooting **Linux** network, security related issues, capturing packets using tools such as Iptables, firewall, TCP wrappers, NMAP.
* Used **Nagios** as a network monitoring tool. **RPM** and **YUM** package installations, patches, and another server management.
* Managing virtual and physical **Linux** **Red Hat** **servers** for deployments, configurations and patching cycles to ensure reliable and secure infrastructure.

**Environment:** Redhat Linux 6/7/8, AWS, Git, Jenkins, Dockers, Ansible, Terraform, IAM, Cloud formation templates, Python scripting.

|  |  |
| --- | --- |
| **KIA Corporation – India** | **Nov 2014 to Mar 2017** |
| **Role: L1 DevOps Engineer** |  |

* Created the automated **build** and **deployment** process for application, re-engineering setup for better user experience, and leading up to building a **continuous integration system**.
* Developed and implemented Software Release Management strategies for various applications according to the **agile process**.
* Responsible for **Continuous Integration** (CI) and **Continuous Delivery** (CD) process implementation-using **Jenkins** and Shell scripts to automate routine jobs.
* Managed **IAM** policies, providing access to different **AWS** resources, design and refine the workflows used to grant access.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **AWS** **Cloud** **watch**.
* Installed, Configured and Administered **Jenkins** Continuous Integration Tools.
* Proposed, Implemented and maintained New **Branching** strategies for development teams to support trunk, development baseline codes along with several feature branches.
* Responsible for defining **branching** & **merging** strategy, check-in policies, improving code quality, automated Gated Check-ins, defining backup and archival plans.
* Implemented new projects builds framework using **Jenkins** & **Maven** as build framework tools.
* Used **Maven** as build tool on python projects for the development of build artifacts on the source code.
* Developed **automation framework** for Application Deployments to the cloud environments.
* Installed and configured Infrastructure Automation Tool Puppet. Created and updated Puppet manifests and modules, files, and packages.
* Implemented **AWS** solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer**, and **Auto scaling groups**, Optimized volumes and **EC2** instances.
* Written pre-& post commit hook scripts to accommodate various development requests.
* Developed **Perl** and **shell** scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
* Automated the cloud deployments using **Puppet** and **AWS** Cloud Formation Templates.
* To achieve Continuous Delivery goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx**.
* Experience in implementing and configuring network services such as **TCP/IP, HTTP, DHCP,** and TFTP.
* Successfully migrated a large-scale Red Hat Enterprise Linux **(RHEL) 6** environment to **RHEL 7**.
* **Expertise in Red Hat Enterprise Linux (RHEL) installation, configuration, and administration.**
* **Experience with Red Hat Satellite, a system management tool that can be used to automate the deployment and management of RHEL systems.**
* Installed, configured, maintained and administered **Linux** / **UNIX** operating systems and components.
* Created local repository to connect Linux server to RHEL site for downloading packages and patches.

**Environments**: Cloud AWS, Jenkins, Ansible, Redhat Linux, IBM Aix, Ubuntu, CentOS, VMware Java/J2ee, Shell Scripts, Apache Web Server, Jboss Application Server, TCP/IP, HTTP DNS, Bash

|  |  |
| --- | --- |
| **Manuh Technologies – India** | **Mar 2013 to Oct 2014** |
| **Role: System Engineer (Redhat Linux, IBM AIX)** |  |

* Installation and configuring **Red hat** Enterprise **Linux** 5/6. Implementation of **Kick-start and administration.**
* Configuring, Automating and Deploying Ansible for configuration management to existing Infrastructure.
* Written the **Ansible YAML** scripts to configure the remote servers
* Responsible for maintaining user accounts and basic services access permissions on infrastructure servers
* Providing On-call support and resolving issues within SLA. Created **SAMBA/NFS** shares and managed **Active** directory groups on **Linux** servers. Creating, cloning **Linux** Virtual Machines, templates using **VMware** Virtual Client.
* Regularly supported and managed **RHEL** patch deployment, implementation and testing. Deployment process, Supported and administered **Linux**, **VMware**, post-hardware setup and configurations based on various development environments. Excellent in patches and packages installation on **Linux**/**Unix** Environment. Configure password less login between **Linux** servers
* Troubleshooting **Linux** network, security related issues, capturing packets using tools such as **Iptables, firewall, TCP/UDP** and other networking issues.
* Planned, scheduled and Implemented OS patches on both **Solaris** & **Linux** boxes as a part of pro**active** maintenance and Secure **Shell** (SSH) implementation.
* Installed Patches/Packages and RPM packages on **Linux** **Servers** and Upgrading OS levels.
* Responsible for configuring networking concepts like **SMTP,DNS,NTP,SAMBA** and **NFS** services and supporting users in solving their problems.
* Installed and updated packages on all the servers using **YUM** and managed packages through Redhat Satellite server.
* Experience in Installing Firmware Upgrades, **kernel patches**, systems configuration, performance tuning on **Unix**/**Linux** systems.
* Installed, configured, maintained and administered **Linux** / **UNIX** operating systems and components. Diagnosed and resolved problems associated with **DNS, DHCP, VPN, NFS** and **Apache**
* Configuration of remote access utilities, providing user access control on services like **Telnet, FTP,SSH**
* Involved in configuring **Redhat Satellite server** by creating templates and profiles and assigning to all hosts accordingly.
* Installations of all the required patches, hardware, software drivers, third-party software’s

**Environments**: Redhat Linux 5/6/7, IBM Aix, Ubuntu, CentOS, Shell Scripts, Apache Web Server, TCP/IP, HTTP DNS, Bash,Redhat Satellite server