**MANOJ**

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**Summary:**

* IT Professional with **11**+ years of experience in installing, configuring, upgrading, supporting and maintaining various Linux platforms such as RHEL, SUSE, CentOS, Debian, Ubuntu, Unix platforms such as Sun Solaris, IBM AIX and Windows Servers.
* **6**+ years of experience in DevOps and cloud environments working on configuration management tools (Puppet/Chef and Ansible), **CI/CD** (**Jenkins**), **version control (Git Hub),** and **cloud IaaS** experience with AWS Cloud Administration and AWS, including services such as **S3, EC2, VPC, EBS, AMI, ELB, SNS, RDS, IAM, Auto Scaling, Route 53, CloudFront, CloudTrail** and **OPS.**
* Experience working on **DevOps/Agile** operational processes and tools (code review, unit test automation, build and release automation, environment, services, incident and change management).
* Experience in creating DevOps strategies in a mixed **Linux** (RHEL, CentOS) and Windows environment as well as in creating and implementing cloud strategies based on **Amazon Web Services** (AWS).
* Manage Ubuntu, **Linux** and **Windows** virtual servers (Rackspace and AWS EC2) with **Ansible**, **Chef** (configuration management tool) with **Git**.
* Knowledge of Amazon Cloud Services IAM, EC2, S3, EBS, VPC, ELB, RDS, Dynamo DB, Auto Scaling, Security Groups.
* Distributed microservices, application development and migration using **AWS/Azure** services such as **Azure DevOps, Kubernetes Service (AKS), Container Registry, Cosmos DB** and **Grafana, Azure Pipelines**, Monitor. RBAC, AWS Kubernetes EKS and Kubernetes API for running workloads on EKS clusters.
* Hands-on experience working with **Terraform** to deploy data centre infrastructure with **AWS**.
* Created a **CI/CD pipeline** in **Jenkins** and executed the build by integrating with GitHub repository using build and deployment scripts. Create artifacts stored in the Nexus repository. Experience automating continuous integration and delivery using AWS services such as Elastic Beanstalk, Lambda, Code Commit, Code Deploy, **Code Pipeline,** and **CloudFormation.**
* Implemented a continuous deployment pipeline using **Git, Jenkins, Docker** and **AWS** AMI whenever a new GitHub branch is automatically started.
* Experience in cloud automation using **AWS Cloud** Training templates and **terraforms**.
* Experience using **Bash/Perl, Ruby** and **Python scripts** to automate change control.
* Knowledge of source code management via **GIT-HUB, CVS, SVN, GIT** and good knowledge of code management via Repository.
* Experience working on a migration from a physical data centre environment to **AWS**.
* Knowledge of deploying **JAVA** applications using **JBoss/Oracle, WebLogic** and **Tomcat** Application Server.
* Good knowledge of OpenShift platform in managing **Docker** containers and **Kubernetes** clusters.
* Experience in developing, implementing and releasing Java and J2EE based products using technologies such as **SVN, CVS, Ant, Maven, Gradle, Artifactory, Hudson, Jenkins, Web Logic, Web Sphere, Oracle, OSB, Perl, Python** and **shell scripts, Terraform.**
* Experience building an application release pipeline using Jenkins Continuous Integration.
* Experience using **Nagios** and **Splunk** to monitor teams to identify and resolve issues
* Experience with container management and orchestration tools such as **Docker** and **Kubernetes**.
* Experience in Cloud Automation with **AWS Cloud** Training Templates and Migrating from Datacentre to Amazon Web Services.
* Worked on **JIRA**, **ticket** management and generation tools.
* Knowledge of using Nexus and Artifactory repository managers for **Maven** builds.

**Technical Skills:**

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| **Version control systems** | Subversion, GitHub |
| **Build Tools** | Ant, Maven, Jenkins, Sonar cube |
| **Repository Management Tools** | Nexus, Artifactory |
| **Configuration Management Tools** | Puppet, Vagrant, Docker, Kubernetes |
| **Scripting/Programming Languages** | Java, Python, Shell, YAML |
| **OS Environment** | RedHat, Ubuntu, Windows, Centos. |
| **AWS Cloud** | Amazon Web Services (EC2, S3, ELB, Auto scaling, Elastic Beanstalk, Cloud Front, Cloud Formation, Elastic File system, RDS, DMS, VPC, OpsWorks, Route 53, Cloud watch, Cloud trail, IAM, SNS), Open Stack, Microsoft Azure |
| **App Servers** | Apache Tomcat, WebLogic |
| **Database Servers** | MySQL, Oracle, PostgreSQL |
| **Browsers** | Firefox, Internet Explorer, Chrome, and Safari |
| **Version control systems** | Subversion, GitHub |

**Professional Experience:**

**Client: Kinder Morgan Energy Partners, TX May 2022 – Present**

**Role: DevOps Engineer/AWS cloud Engineer**

**Responsibilities:**

* Understood **Agile** **Methodology** to reach organization goals.
* Built application & database servers using **AWS EC2**, created AMIs for backup and used RDS for **Oracle DB**.
* Managed **Linux** and **Windows** virtual servers on **AWS EC2** and supported application on Cloud.
* Maintained high availability, Elasticity and scalability to the applications using Auto Scaling and Elastic Load Balancer to the EC2 instances.
* Built **Jenkins** jobs to create **AWS** infrastructure from **GitHub** repos containing **Terraform** code. Wrote terraform scripts from scratch for building Dev, Staging, Prod and DR environments and setting up the build and deployment automation for **Terraform** **scripts** using **Jenkins**.
* Implemented **Ansible** **Playbooks** for Deployment on Build on internal Data Centre Servers. Also re-used and modified the same Ansible Playbooks to create a Deployment directly into **Amazon EC2 instances**.
* Experience in implementing CDNs for websites or web applications.
* Experience in identifying and resolving issues related to CDN performance. Troubleshooted and resolved issues such as caching problems, SSL certificate issues, or content delivery errors.
* Worked on **Kubernetes**, for deploying and managing of **Docker** Containers as a container orchestration tool.
* Hands on experience in creating pods and managing on the cluster environment on **Kubernetes**.
* Installed and configured Ansible Configuration Management Tool with specific client requirement such as Create user/remove user, Install /Remove packages and package updates, Configure multi nodes.
* Used Cloud Formation templates to build **Redhat** **Linux servers** and applied security policies for hardening the server based on the company policies.
* Worked on Cloud automation using **Terraform** and **AWS Cloud** Formation templates.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Integrated Jenkins with **Nexus**, **Ansible**, and used **CI/CD** system of **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build and test and deploy.
* Involved in JIRA as defect tracking system and configure various **workflows**, customizations and plug-ins for JIRA bug/issue tracker, integrated **Jenkins** with **JIRA, GitHub**.
* Virtualized the servers using the **Docker** for the test environments and dev-environments needs.
* Setup monitoring and alerting mechanisms for AWS using **CloudWatch** to monitored **Linux** **server** for CPU Utilization, Memory Utilization, and Disk Utilization for performance monitoring and private datacenter infrastructure.
* Transitioned Infrastructure from private data center to **Cloud (AWS).**
* Built a new **CI pipeline** for testing and deployment automation with **Docker, Jenkins,** and **Ansible**.
* Implemented new projects builds framework using Jenkins as build framework tools.
* Deployed application using Jenkins server and to troubleshoot build and release job failures, resolve, work with engineers on resolution.
* Worked on **JIRA** to create tickets, storyboarding, pulling reports from dashboard, planning sprints.
* Coordinated/assisted developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Used Nagios as an infrastructure monitoring tool to identify and resolve infrastructure problems before they affect critical processes.
* Used **Perl**, **shell**, **Ruby**, **Python scripting** for Applications, Backups and scheduling.
* Supported 24x7 production computing environments and providing on-call and weekend support.

**Environment:** Chef, Jenkins, Nagios, AWS, Azure, Amazon EC2, S3, EBS, RDS, Route53, Elastic Load Balancer, SNS, Maven, REST, GitHub, Ansible, CDN, Python, Ruby, JIRA, Kickstart, VMWare Templates.

**Client: Fuse machines, India Jan 2018 – Apr 2021**

**Role: DevOps Engineer/ AWS**

**Responsibilities:**

* Involved in designing and deploying multitude applications utilizing almost all AWS stack (Including EC2, S3, AMI, Route53, RDS, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and Auto-Scaling in AWS Cloud Formation.
* Maintained the user accounts **IAM** Roles, **Route 53(CNAME), VPC, RDB, MongoDB, SQS & SNS** services in the **AWS** **cloud**.
* Providing network/system support & implementation in Public/Private cloud environments. Worked with Aviatrix for authentication and VPN.
* Implemented & Supporting DevOps automation. Setup **AWS CloudWatch** Client for custom metrics. Worked on Lambda functions with python which automate Volume Encryption and Snapshot deletion based on tags.
* Setup and maintain server and application environments (Docker, Kubernetes, Beanstalk) are day to day tasks. Involved in architect, build and maintaining highly available and secure multi-zone AWS cloud infrastructure utilizing AWS resources like **S3, CloudFront, Beanstalk, Lambdas, VPC** and **DNS** routing through R53. Used Code build and **Code pipelines** for **CI/CD** and **Bash** **scripting** to automate **Linux** servers.
* Setup serverless web applications using S3, Lambda, Web apps and blob storage and worked on various databases such as **PSQL, Redshift** etc. Worked on Elastic search and Kibana to view application and server level metrics with custom Dashboard.
* Implement CloudWatch monitoring, Alerting and Dashboards. Setup error capturing which are enabled to track application issues and debug faster.
* Created **Pythonscripts** to totally automate **AWS services** which includes web servers, ELB, Cloud Front distribution, database, EC2 and database security groups and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Involved in creating the company's DevOps strategy in a mixed environment of **Linux** (Ubuntu, CentOS, RHEL) servers.
* Experience in writing Ansible playbooks by using **YAML script** to launch **AWS** **instances** and used to manage web applications, configuration files, used mount points and packages.
* Wrote **CI/CD pipeline** in Groovy scripts to enable end to end setup of build & deployment using Cloud Bees Jenkins and Developed an end-to-end **CI/CD Pipelines** in **Jenkins** to retrieve code, perform tests and push build artifacts to **Nexus**.
* Wrote scripts for the build, deploy, maintain using **Jenkins, Git, Maven, Python, Bash** and worked on **CI/CD** involving Run Deck **Jenkins** and **Ansible** to complete the automation from commit to deploy.
* Wrote **Python scripts** using the Boto3 library to automatically sign up the instances in **AWS EC2** and Ops Works stacks and integrated with Auto Scaling with configured AMI’s.
* Used Git version control to manage the source code and integrating **Git**with**Jenkins** to support build automation and integrated with Jira to monitor the commits.
* Integrated **Docker** container-based test infrastructure to **Jenkins** CI test flow and set up build environment integrating with **Git** and **Jira** to **trigger** builds using Webhooks and Slave Machines.
* Implemented Git for Branching, Merging, Tagging, and maintaining the version across the environments on Linux platforms and, designed and implemented Git Metadata including elements, labels, attributes, triggers, hyperlinks.
* Installed and configured DHCP, DNS, web servers like Apache, IIS, mail servers like SMTP, IMAP, POP3, and file servers on RHEL servers.
* Implemented a **CI/CD framework** using **Jenkins**, **Maven** & Artifactory in **Linux** environment and Integration of **Maven/Nexus, Jenkins, Git** and **JIRA**.
* Maintained Jenkins continuous integration tool using shell/Perl and ruby scripts for automating releases to different environments.

**Environment:** AWS, Chef, Ansible, Maven, Jenkins, Docker, Python, Linux, Bitbucket, GitHub, Nagios, Shell, Bash, groovy, RHEL, Apache, IIS, Linux, SMTP, IMAP, POP3, RHEL, VMWare vSphere, Jira.

**Client: Inovalon private limited, India Feb 2016 – Dec 2017**

**Role: AWS Cloud / DevOps Engineer**

**Responsibilities:**

* Worked as a **Cloud administrator** being responsible for building and configuring a new cloud infrastructure environment, troubleshooting **AWS** related issues and engage internal teams for complex issues.
* Involved in migrating infrastructure & application from on premise to **AWS** & from Cloud to Cloud such as **AWS.**
* Hands-on implementation of the **AWS** Operations dealing with **IAAS infrastructure** (VMs, Virtual Networking, Azure Services, Web Site Deployments) and deploying applications as **PAAS** (Websites, Web Roles and Worker Roles), Implemented New Azure Services like Backup Vaults, Recovery Service Vaults, Operation Management Suites, Cost-Estimation and Efforts.
* Implemented a **'server less'** architecture using **API Gateway,** **Lambda** and **Dynamo DB** & deployed **AWS Lambda code** from **Amazon S3** buckets.
* Planning, deploying, monitoring, and maintaining **Amazon AWS** **cloud** infrastructure consisting of multiple EC2 nodes and **VMware** VMs as required in the environment.
* Used security groups, network ACLs, Internet gateways, NAT instances and Route tables to ensure a secure zone for organizations in AWS Public cloud.
* Working 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.
* Creating public and private subnets within the **VPC** and attaching them to the EC2 instances based on the requirement.
* Designed **AWS Cloud** Formation templates to create custom sized **VPC**, **Subnets**, **NAT** to ensure successful deployment of Web Applications and database templates.
* Utilize **AWS CLI** to automate backups of ephemeral data-stores to **S3 buckets, EBS** and create nightly AMIs for mission critical production servers as backups.
* Worked on **Bash scripts** with **AWS CLI** to gather resources metrics from **AWS EC2** Instances, and configured Alerts and dashboards using **AWS Cloud Watch Monitoring.**
* Hands on experience in building tools such as **MAVEN, ANT** and **Gradle** for the building of deployable such as war, jar and ear from source code and automatedWeb and **J2EE** applications to the above platforms.
* Used Artifactory Repository tool for maintaining the **Java based** release code packages.
* Written bash scripts to deploy theJavabased packages like **EAR** and **WAR** on the **WebLogic Application Server.**
* Maintained and tracked inventory using **Jenkins** and set alerts when the servers are full and need attention.
* Worked with the groovy scripts in **Jenkins** to execute jobs for a continuous integration pipeline where 'Groovy Jenkins Plugin' and 'Groovy Post-Build Action Plugin' is used as a build step and post build actions.
* Developed utilities in **Shell** and **Python scripting** to automate processes.
* Migrated and maintained build-test Environments into the cloud Infrastructure and implemented a Continuous Delivery process using **Jenkins** across multiple environments.
* Written Templates for AWS infrastructure as a code using **Terraform** to build staging and production environments. Managed different infrastructure resources, like physical machines, VMs and even Docker containers using Terraform.
* Used **Terraform** to deploy the server-less architecture from the existing **AWS architecture**.

**Environment:** RedHat, Ubuntu, Maven, Splunk, AppDynamics, Nagios, Jenkins, BASH, PowerShell, Groovy Script, JSON, Cookbooks, APACHE/TOMCAT, Python, Chef, Docker, Kubernetes, VMware, JBOSS, Azure, AWS, S3, ELB, IAM, Cloud Watch, ELK, VMware, JBOSS, API Gateways, Lambda, MYSQL, Cronjob.

**Client: Conduent, TX Jan 2015 – Dec 2015**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Worked as a part of **AWS build team,** Setup and attached EBS volumes to **Ec2 instances**, Setup and configured **EIP to EC2 instances**, Setup and managed security groups, **VPC specific** to the environment, Setup and managed backup and recovery using a snapshot
* Setup and launch Amazon Linux and RHEL and Windows ec2 instances, network interface with Elastic IPs.
* Configured and managed security groups, **VPC, ELBs, and S3 storage**.
* Created AMI images of the critical ec2 instance as backup using **AWS CLI and GUI** and configured schedules.
* Managed and created user accounts, shared folders, Printing Services, providing day-to-day user support, Log management, reporting, applying Group policy restrictions, etc.
* Utilized Cloud Watch to monitor resources such **as EC2, CPU memory**, **Amazon RDS DB** services, **DynamoDB** tables, and EBS volumes; to set alarms for notification or automated actions.
* Document system configurations, Instance, OS, and AMI build practices, backup procedures, and troubleshooting guides, and keep infrastructure and architecture drawings current with changes.
* Utilize **Amazon Glacier** for archiving data and migrated existing infrastructures over three AWS accounts into VPCs managed by Cloud formation.
* Involved in setting up **CI/CD** using **Jenkins pipelines** and **GitHub**.
* Maintain code repositories and implement the best practices for branching and merging in **Subversion (SVN**) and **Team Foundation Server (TFS).**
* Implemented a complete automated build-release solution using a combination of technologies like **Maven**, **TFS**, **Jenkins**.
* Terminated unused instances and re-size the instances which are oversized, this has brought down 30% cost of the AWS services.
* Tagging all the instances properly and applying policies to the users so that they will not be able to create ec2, volume, etc. without mandatory tags.
* Worked with RedHat **OpenShift** container platform for **Docker** and **Kubernetes**. Used **Kubernetes** to deploy scale, load balance and manage **Docker** containers with multiple namespace versions.
* Application deployments to **Kubernetes using Helm charts V2.**
* Hands-on experience in setting up the Helm charts and further customization of values file of the helm.

**Environment:** VPC, AWS CLI, GUI, DynamoDB, CI/CD, Jenkins pipelines, GitHub, Docker, Kubernetes**.**

**Client: Kensium Solutions, India Aug 2013 – Jan 2014**

**Role: DevOps Engineer**

**Responsibilities:**

* Working with Infra Development team as a DevOps Engineer for server level automation and infra development.
* Provisioned tasks-based roles on **Ansible playbooks** for parallel deployment on multiple servers and provisioning of infrastructure with custom build plugins and modules
* Worked with projects using OpenShift client for Jenkins builds for various configurations.
* Provisioned AWS resources **like EC2, VPC, EBS, AMI, S3 buckets**, creation of subnets, and all other operational tasks using Ansible.
* Provisioned entire on-premise infrastructure on **AWS cloud** using CloudFormation scripts for high availability and fault tolerance.
* Setup a Continuous Delivery pipeline using Ansible playbooks, which consists of sonar Server and **Jenkins**, the Infrastructure to run these packages, and various software components like **Maven**.
* Developed and supported the RHEL based infrastructure in the cloud environment.
* Migrated on premise Oracle database to **AWS RDS** using **S3** and **AWS VPC** Peering.
* Supported **AWS** **cloud** instance, including management and configuration of various **AWS services**.
* Worked on creating **EC2** instances, updating security group and IAM policies.
* Configured the entire existing stack in service-oriented architecture using **RedHat** **OpenShift’ s** **Kubernetes** platform.
* Worked with Ansible and CloudFormation scripts to build the base infrastructure with all necessary **AWS services** like **VPC** and **EC2** for master/infra and app nodes.
* Performed **Shell** and **Perl scripting** for automotive tasks in **Linux** and wrote scripts on Python.
* Created **S3 bucket** ad updated the bucket policies, versioning and lifecycle. Setup static web content on S3 bucket.
* Used Jenkins to test the workflow of retrieving and running puppet modules from **GitHub** onto different test slaves.

**Environment:** AWS, Git, GitHub, Jenkins, Puppet, SVN, Cloud Watch, Linux, UNIX, Chef, Puppet, Maven.

**Client: Cyient Limited, India Aug 2011 – July 2013**

**Role: Linux/Unix Administrator**

**Responsibilities:**

* Installed, upgraded and configured **Red Hat** Enterprise **Linux** 4/5/6. Managed **Linux** **server’s** backups, restores and general system administration.
* Handled user and client security and access on AIX and **Linux** **servers** for remote access. Wrote Perl and shell scripts for data mining and data integration solutions to reduce labor force and data entry. Maintained multiple **Oracle** **databases** with an **Apache/Tomcat** web front end.
* Administration of around 1650+ servers containing Solaris **Linux** running WebLogic, **Oracle**, SAP development,
* Installation of **Red Hat** **Linux** on x86 HW like HP and Dell, Solaris 9, 10 operating systems on SPARC platforms.
* Extensively used SMF for service management for managing services on Solaris 10. Supported **Oracle** **DB** and **Oracle** **RAC** on **Red hat** environments. Maintenance of a **Linux** **Firewall** System. Management of Internal Systems and Hosted Systems.
* Experience setting **Linux** to support RAC, **Oracle** and WebLogic installations and performed trouble shooting on performance issues on HPUX and **Linux** **servers**. Experience installing, upgrading, and configuring **RedHat** **Linux** **4.x, 5.x, 6.x** using **Kickstart** Servers and Interactive Installation.
* Using Shell and Perl I was able to develop scripts to automate most of our day-to-day processes that allowed for more time to be spent on developing new and improved ways of meeting the needs of our clients. Used to track the tickets in Remedy ticketing tool.
* Implemented new EDI standards and new mapping functionality to handle more in-depth requirements. Assisted in planning and testing new applications and operating systems. Setup of Environments and Networks. Installation of **Linux**, **Unix** and **Windows** **Servers**.
* Administration of **Linux**, **UNIX** and **Windows** Application Servers. Supported **Linux** **Oracle** Servers in Terms of Troubleshooting and General Maintenance. Scripting on **Linux**, **UNIX** and **Windows** Servers. Installation of **Linux** servers for Web Serving, File Sharing, Database, and Subversion
* Experience in configuration **Linux** **Network Services** such as DNS, NTP, NFS, FTP, SSH, LAMP (**Linux, Apache, MySQL, PHP**) **PostgreSQL database**.
* Experience in Linux Security PAM, TCP wrappers, Firewall/IP-tables and **Linux** Monitoring (**Nagios**).
* Involved in complete Administration tasks on SUN Solaris, **Red Hat** **Linux** and documentation for the projects executed.
* Installed, monitored, and supported Web servers and Application Servers on Solaris and **Linux** environments.
* Hardened the new AIX, HP-UX and **Linux** **systems** because of the newly installed defense-based software systems
* Installed, upgraded, and configured SUN Solaris 9/10on Sun Servers using Jumpstart and **Red hat** Enterprise **Linux** 5/6 using **Kickstart**.