**Uday K**

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**PROFESSIONAL SUMMARY:**

* Around 8 years of experience in corporate IT Industry as AWS/DevOps engineer, Linux Systems Administrator and Storage Support Engineer, Production Support on various applications like Sun Solaris, Red Hat Enterprise Linux and Windows Environment.
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in **Agile, Scrum,** and **Waterfall** methodologies.
* Strong experience on DevOps concepts like **Build Automation**, **Continuous Integration** (CI), **Continuous Deployment** (CD), Infrastructure as code technologies, Cloud computing
* Primary duties include Build and Deployment of the Java applications onto different environments like Dev, QA, UAT and Production. Analyze and resolve compilation and deployment errors related to code development, branching, merging and building of source code.
* Experience with various **AWS** services like **EC2, S3, ELB, Glacier, VPC, RDS and**

**Cloud Watch, elastics IP, security groups and cloud formation**.

* Experienced in **AWS Beanstalk** for app deployments and worked on **AWS Lambda** with **Amazon kinesis**
* Worked on **AWS Cloud Formation Templates (CFT)** to create custom-sized VPC, Subnets, EC2 instances, ELB and Security groups.
* Aptitude in utilizing **GIT, GitHub** furthermore to have organization learning to bolster employee and GitHub clients
* Configured and maintained **Jenkins** to implement Continuous Integration process
* Application Deployment and environment configuration using **Chef, Puppet and Ansible**.
* Proficient in apache subversion (**SVN**) and **CVS** tools
* Hands on experience in automating build process with tools **Ant, Maven, Gradle** using **Python** and **Shell** scripting languages
* Configure **Docker** containers and creating **Docker** files for different environments
* Experience in installing, upgrading, patching, configuring, administrating and maintaining various Linux flavors like **RHEL, Suse, CentOS, Debian, Ubuntu and Unix** flavors like sun Solaris and windows servers
* Used **RDS, MySQL and Dynamo DB** to perform database administration
* Expertise in automation tools like **Git, Ant, Maven, and Jenkins, Chef, Puppet, PowerShell, Ansible, Nagios, and Docker**
* Managing ongoing updates and configuration changes to Aws environments using deployment. Automation tools such as **Jenkins** alongside **chef** and **terraform**
* Proficient in Maintaining Enterprise Nexus code repository and **SonarQube** Code Quality management, regularly monitoring the quality gate of Enterprise application using **SonarQube**.
* Experience in Working with **Ansible** and **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications and well versed with Ansible Playbooks, modules, and roles.
* Experience in working with **Microsoft Azure platform** for support delivery, solved complex billing and technical issues
* Experience with **Linux Administration, Application Build and Release Management, Cloud Infrastructure management, Software Configuration Management.**
* Expert in Implementing a production ready, highly available, fault tolerant **Kubernetes** infrastructure. Working on Scheduling, deploying and managing container replicas on a node cluster using **Kubernetes**.
* Hands-on experience in **Azure Cloud Services** (PaaS & IaaS), Storage, Web Apps, Active Directory, Application Insights, Logic Apps, Data Factory, Service Bus, Traffic Manager, Azure Monitoring, OMS ,Key Vault, Visual Studio Online (VSO), Cognitive Services (LUIS)and, SQL Azure.
* Expertise on **DNS, NIS, NFS, FTP, DHCP**, troubleshooting network problems such as Sub netting, routing, firewall related to TCP/IP protocol issues
* Worked with various Ticketing tools which include **Bugzilla, Jira, Junit, GE Service Now**
* Managed and configured **VMware** virtual machine **for RHEL, oracle/ sun Solaris, oracle Linux server**
* Extensive experience in working with various teams such as QA, Engineers and other teams to ensure automated test efforts are strongly integrated with the build system.
* Application servers like Web Sphere, WebLogic, JBoss. Web Servers like and Apache, Tomcat and Web Containers like Nginx etc.
* Experience on different kinds of application servers and web tiers including A**pache tomcat, JBoss, IBM WebSphere.**
* Monitoring **Splunk** infrastructure (identify bad searches, dashboards and overall health of **Splunk**) and collaborate with respective teams to improve performance
* Experience with MongoDB, MSSQL, MySQL and Server DB Tasks.
* Installed, configured and managed the **ELK** (Elastic Search, Log stash and Kibana) for Log management within EC2 / Elastic Load balancer for Elastic Search.
* Experience with Monitoring and log analytics tools (similar to Elastic Search, LogStash, Kibana, Grafana, Nagios, Splunk)

**EDUCATION:**

* Bachelor’s in Computer Science - 2013 **Vignan University**
* Master’s in Computer Science -2017 **Virginia International University**

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating System** | Red Hat Linux 4,5,6, Sun Solaris 8.9.10, VSphere 4.0,5.0, Windows 98, 2000 Millennium Edition, XP, 7/8/10, Linux, CentOS 5,6, Fedora, Ubuntu |
| **CM Tools** | Ansible, Chef, Docker, Puppet |
| **CI Tools** | Jenkins, Hudson, Nexus |
| **Build Tools** | Ant, Maven, Gradle |
| **Version Control** | Git, CVS, Perforce, SVN |
| **Cloud** | AWS (VPC, EC2, Cloud Formation, S3, IAM, RDS, Route 53, Cloud Watch, Redshift, Code Deploy, Code Pipeline, RDS, Dynamo DB and Elastic Cache |
| **Scripting** | Shell, Groovy, Python |
| **Database** | Oracle 9i, 10g, Db2, MS access, MySQL 3. x. |
| **Languages** | C, Java |
| **Web App Servers** | Apache Tomcat, IBM WebSphere, JBoss |
| **Monitoring Tools** | Nagios, Splunk, Cloud watch |
| **Ticketing Tools** | Bugzilla, Jira, GE Service Now |

**PROFESSIONAL EXPERIENCE:**

**Aegon Transamerica**

**Sr. DevOps & AWS Cloud Engineer JUNE 2019- PRESENT**

**Responsibilities:**

* Expertise in AWS Resources like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Formation, Cloud Watch, Security Groups, Lambda, ECS, etc
* Experience in creating Jenkins CI/CD pipelines and good experience in automating deployment pipelines.
* Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Implemented a Continuous Integration and Continuous Deployment (CI/CD) pipeline with Docker, Jenkins, GitHub, Maven.
  + Managed multiple cookbooks in Chef and Implemented environments, roles, and templates in Chef for better environment management.
  + Worked on creation and managing IT infrastructure and application stack using AWS Cloud Formation and writing the template file using JSON.
  + Experienced in using Build Automation tools like ANT, Maven. Implementing new build framework using Jenkins & Maven as build framework tools.
* Working experience of deployment of Java applications through WebLogic/WebSphere Application servers. And build tools like Gradle.
  + Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
  + Automated the continuous integration and deployments using Jenkins, Docker, Ansible and AWS Cloud Formation Templates.
  + Developing scripts for deployment of customer environments into AWS, using Bash and Python
  + Managed Kubernetes charts using Helm and Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files.
  + Strong use of various scripting languages like Groovy, Shell (Bash), Json, Yaml, Ruby and Python.
  + Responsible for proper functioning DEV/TEST/STG/PROD environments for these applications.
  + Scheduled, deployed and managed container replicas onto a node cluster using Kubernetes.
  + Implemented and improved process for release management, automated code deployment, configuration management, and monitoring.
  + Created and implemented Chef Cookbooks for deployment. And used Chef Recipes to create a Deployment directly into Amazon EC2 instances.
  + Written Ansible Playbooks, which is entry point for Server Provisioning, where the automation identified through the tasks using YAML format.
  + Administering AWS Cloud Infrastructure based on Linux/Windows OS.
  + Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
  + Installing and configuring Jenkins master and slave nodes. Built CI/CD pipeline and managing the infrastructure as code using chef.
  + Worked on Docker container to create Docker images for different environments.
  + Integration of ANT/Nexus, Jenkins, Urban Code Deploy with Patterns/Release, Git, Confluence, Jira and Cloud Foundry.
  + Experience on working with on-premises network, application, server monitoring tools like Nagios, Splunk and on AWS with Cloud Watch monitoring tool.
  + Developed Continuous Integration pipeline using Jenkins and developed various Groovy scripts for deploying the applications on to the AWS Cloud.
  + Converting existing AWS infrastructure to server less architecture ( AWS Lambda) deployed via Terraform or AWS Cloud formation.
  + Worked with GIT (GitHub) to manage source code. Used Jenkins tool to automate the build process to manage Git.
  + Managed Nexus and Maven repositories to download artifacts during the build process.

**Environment**: AWS EC-2, VPC, Auto-Scaling, ELB, ELK, Shell Scripts, ANSIBLE, Java, Python, Maven, Chef, Jenkins, Docker, Nginx, Nagios, GIT, Agile,Kubernetes.

**US Cellular, Chicago JULY 2018 – MAY 2019**

**Sr. DevOps & AWS Cloud Engineer**

**Responsibilities:**

* Involved in designing and deploying multitude applications utilizing most of the AWS stack (Including EC2, Route53, S3, RDS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation

Created **Python** scripts to automate **AWS** Services which includes **ELB, Cloud front**, **Lambda,** database security and application configuration also Developed them to take backup of **EBS** volumes using **AWS Lambda**, **CloudWatch**

* Worked with Terraform for automating VPCs, ELBs, security groups, SQS queues, S3 buckets, and continuing to replace the rest of our infrastructure.
* Worked on many different concepts of **Chef** like **Roles, Environments, Data Bags, Knife, and Chef Server Admin/Organizations**. Written **Chef Recipes** to automate **deployment process** and **data bags** in **Chef** for better environment management and **test kitchen** to validate cookbooks.
* Worked on **Docker, OpenShift** to manage microservices for development and point team player on **OpenShift** for creating new Projects, Services for load balancing and adding them to **Routes** to be accessible from outside.
* Created pods and services using Master and Minion architecture of **Kubernetes** and developed **microservice** onboarding tools, leveraging **Python** allowing for creation and maintenance build jobs and **Kubernetes** deploy services.
* Extensively used **Kubernetes** charts using **Helm** and created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and managed releases of **Helm** packages.
* Responsible for installing and administrating the **SonarQube** for code quality check and **Nexus repository** and generating reports for different projects. Also, integrated them with Jenkins.
* Worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and Troubleshoot the build issue during the Jenkins build process.
* Worked with Jenkins under the **CI/CD** pipeline providing continuous improvement to **Agile** software development teams. Configured **Jenkins** and integrated it with **Chef** to schedule jobs on all the bootstrapped nodes.
* Configured **POM** file to manage **Maven** plugins such as **Maven** build plugins and **Maven** Reporting plugins and resolve **Maven** dependencies required for the project.
* Integrated **GIT** with **Jenkins** using the **GitHub** plugin to automate the process of source code check-out by providing the **URL** and credentials of the **GIT** repository.
* Configured Ansible control machine and wrote **Ansible playbooks** with Ansible roles. Created inventory in Ansible for automating the continuous deployment and wrote playbooks using **YAML scripting**.
* Used **Ansible** playbooks to setup **Continuous Delivery pipeline**. This primarily consists of a Jenkins to run packages and various supporting software components such as Maven.
* Used **Jenkins** for **CI/Automation** tool for **Continuous** **Integration**. Configured master and slaves to run various builds on different machines and used GIT as a Source Code manager, Maven and Gradle as a Build Tool.
* **Jfrog Artifactory** implementation and process flow in production and non-production environments.
* Continuously updating documentation for internal knowledge base of support team and IT team.
* Worked on setting up **Atlassian** Stack product “**Confluence in Data Center”.** Worked on integrating

Jira and Confluence.

* Create complex **JIRA** workflows including project workflows, field configurations, screen schemes, permission schemes and notification schemes in **JIRA**.

**Environment**: AWS EC-2, VPC, Auto-Scaling, ELB, ELK, Shell Scripts, ANSIBLE, Java, Python, Maven, Chef, Jenkins, Docker, Nginx, Nagios, GIT, Agile.

**American Insurance Group (AIG), Fort Worth, Texas SEP 2017 – JULY 2018**

**Sr. DevOps & AWS Cloud Engineer**

**Responsibilities:**

* Worked on AWS and related services like EBS, RDS, ELB, Route53, S3, EC2, AMI, IAM through AWS console
* Expertise in developing templates for **AWS infrastructure** as a code using **Terraform** to build staging and production environments.
* Experienced in building **AWS S3 buckets** and managed policies and used **S3 bucket and Glacier** for storage and backup
* Implemented &maintained the branching and build/release strategies utilizing Subversion/GIT. Manage configuration of Web App and Deploy to AWS cloud server through Chef.
* Used Chef to manage web applications, configure files, database, users and packages. Developed Chef Recipes using Ruby framework to configure, deploy and maintain software components of the existing infrastructure.
* Utilized Configuration Management Tool Chef & created Chef Cookbooks using recipes to automate system operations. Server automation with Chef and used tools like Maven for deployment and build management.
* Worked on using Chef Attributes, Chef Templates, Chef Recipes, and Chef Files for managing the configurations across various nodes using Ruby.
* Administered cookbook source code repos for deployment cookbooks and implementing chef spec frameworks to make out cookbook issues at initial stages of authoring the recipes.
* Created Ansible playbooks to automatically install packages from a repository, to change the configuration of remotely configured machines and to deploy new builds.
* Configured the Ansible playbooks with Ansible Tower so that other users can run them with just a push of a button.
* Used Jenkins for CI/Automation tool for Continuous Integration. Configured master and slaves to run various builds on different machines and used GIT as a Source Code manager, Maven and Gradle as a Build Tool.
* Created Jenkins pipeline jobs using Groovy Jenkins file. Pipeline provides Build as a code option to perform end to end process of source code, building and deployment in different environments.
* Used MAVEN as a build tool on java projects for development of build artifacts on the source code.
* Experience in using build tools like MAVEN and ANT for the building of deployable Artifacts such as war & jar form source code and experience in using Nexus and Artifactory Repository Managers for Maven builds. Configured and Administrated Nexus Repository Manager and Artifactory.
* Experienced working with **Jenkins-API** using **python** to monitor weekly status report of all jobs running on master and slave machines
* Developed **shell and python scripts** for several system administration tasks to automate build and staging process.
* Used Splunk to centralize and analyse logs, **Nagios** is used for infrastructure and services monitoring and as alerting solution.
* Maintained JIRA for tracking and updating project defects and tasks ensuring the successful completion of tasks in sprint.
* Integrated GitLab into Jenkins to automate the code checkout process.
* Experienced in creating **Docker containers** leveraging existing Linux containers and AMI's in addition to creating **Docker** containers from scratch
* Used **Kubernetes** to deploy scale, load balance, and worked on **Docker Engine**, **Docker HUB**, **Docker Images and Docker Compose** for handling images for installations and domain configurations.
* Used **Docker** to virtualize deployment containers and push the code to EC2 cloud using PCF. Built additional Docker Slave nodes for Jenkins using custom built Docker images and instances.

**Environment**: AWS EC-2, Route 53, S3, VPC, Auto-Scaling, ELB, ELK, Shell Scripts, ANSIBLE, Unix/ Linux environment, Java, Python, Maven, Nexus, Chef, Jenkins, Docker, Nginx, Nagios, GIT, Agile.

**State Auto Insurance, Columbus, Ohio JUNE 2015– AUG 2017**

**DevOps Engineer**

**Responsibilities:**

* Experience in migrating on premise to Windows Azure using Azure Site Recovery and Azure backups and also having good knowledge on **Azure Fabric, Micro services** in Azure.
* Extensive experience in Windows Azure (IaaS) migrating like creating Azure VMs, storage accounts and storage pools, migrating on premise servers to Azure and creating availability sets
* Implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* CICD architecture and maintenance using **Microsoft VSTS** for Azure & On-prem datacenter.
* Managed deployment automation using **Puppet Roles, Profiles, and MCollective, Hiera**, and **Custom Puppet modules**. Wrote puppet manifests from scratch for deploying, configuring and managing metric collection and monitoring.
* Hands on with Puppet Manifest files to deploy automated tasks to many servers at once and used Puppet to create manifests, modules, files, and packages stored in the GIT repository.
* Installed and configured an automated tool Puppet that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation
* Used Puppet to manage Web Applications, Config Files, and Database, Commands, Users Mount Points, and Packages.
* Setting up with **Jenkins** automation creating **Docker** containers and building Docker images and pushed those images to **Docker** registry.
* Expertise in the Jenkins plugin management areas and implemented several CI/CD plugins like AWS EC2, Build Pipeline, **Docker**, **GIT**, and Pipeline plugins.
* Experience deploying and maintaining multi-container applications through **Docker.**
* Experience in using **Kubernetes** to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts.
* Designed and implemented Subversion and **GIT** metadata including elements, labels, attributes, triggers and **hyperlinks**.
* Worked for **DevOps** Platform team responsible for specialization areas related to **Chef** for Cloud Automation.
* Created python scripts to automate security group creation and management from state files versioned in GitHub.
* Developed **GIT hooks** for the local repository, code commit and remote repository, code push functionality and worked on the **GitHub.**
* Worked with **Ticketing & Tracking** tools like **JIRA, Service Now** for various tickets.
* Experience in using **Splunk** for log analyzing and improving the performance of servers. Wrote several custom Splunk queries for monitoring and alerting.
* Installed, configured the web servers like HTTP **Web Server, Apache Web Server and Web Sphere Application Server** on Red Hat Linux.
* Participated in writing **Ruby script** for building applications used to manage and tune the automation deployment tool **chef**. Integrated **JIRA** and **Jenkins** with regards to Release Noted creation and updates.
* Developed **Perl and shell scripts for automation of the build and release process**.
* Experience with monitoring systems Nagios, Grafana.

**Environment:** Maven, Nexus, puppet, chef, Jenkins, Docker, Azure, Nginx, Nagios, Git, Agile, Shell Scripts, Java, Python, Unix/Linux Environment

**IMS Health, Plymouth Meeting, PA JAN 2014 – MAY 2015**

**DevOps / Cloud Engineer**

**Responsibilities:**

* Managing Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Chef, Puppet, or custom-built designing cloud-hosted solutions, specific AWS product suite experience.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Used Amazon Web Services (AWS) to create new instances, checking the security group settings, adding and deleting the elastic IPs for the needed servers, applying the inbound IP addressed as needed.
* Configured various jobs in **Jenkins & Hudson** for deployment of Java based applications and running test suites.
* Used **Jenkins** for Continuous Integration and deployment into **Tomcat** Application Server.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Maven to schedule the builds.
* Developed build and deployment scripts using **Ant and Maven** as build tools in Jenkins to move into different environments and created new jobs and branches through Jenkins.
* Implemented **Continuous Integration** and **Continuous Deployment** using **Jenkins, ANT, Maven, Nexus and Ansible**.
* Automated configuration management and deployments using **Ansible playbooks**.
* Created **Ansible Playbooks** to provision **Apache Web servers, Tomcat servers, Nginx, Apache Spark** and other applications
* Used **Ansible** as Configuration management tool to automate repetitive tasks, quickly deploys critical applications, proactively manages change and well versed with Ansible Playbooks, modules, and roles.
* Extensively worked on creating **Docker file**, build the images, running Docker containers and manage Dockerized application by using **Docker Cloud**.
* Worked in **DevOps** group running Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud configuration. Also gain familiarity with surrounding technologies such as Mesos (Mesosphere) and **Kubernetes.**
* Expertise in using build tools like MAVEN and ANT for the building of deployable artifacts (war & ear) from source code. Created and maintained Ant build.xml’s and Maven Pom.xml’s for performing the build processes.
* Built, configured and secured Virtual Machines for **Open stack** cloud environment
* Built Java based artifacts on the CM Server view using Maven, these Java based artifacts which includes war, ear and jar files for system testing and implemented configuration management (**SCM**) and change management (**CM**) using Clear Case.
* Performed automation engineer tasks and implemented the **ELK stack (ElasticSearch, Log stash, Kibana)** for AWS EC2 hosts.

**Environment**: Python, Maven, Nexus, Ansible, Jenkins, Docker, Nginx, Nagios, GIT, Agile, AWS EC-2, Route 53, S3, VPC, Auto-Scaling, ELB, ELK, Shell Scripts, Unix/ Linux environment, spark.

**Wipro, India JUNE 2012 – OCT 2013**

**Build and Release Engineer.**

**Responsibilities:**

* Worked with developers, project managers, and product owners to setup the road map, and supported day to day build issues
* As a Release Engineer, supported multiple teams for multiple applications including Java/J2EE.
* Attended every day Scrum/Agile meetings and weekly sprint meetings to evaluate completed work and to handover new tasks
* Responsible for maintenance of source control systems Subversion and Git
* Used Maven to build RPMs from source code checked out from Git and Subversion repository, with Jenkins being the Continuous Integration Server and Artifactory as repository manager
* Maintained two Jenkins servers and one Bamboo server to deploy into production and non-production environments. Migrated Jenkins plans from one of the Jenkins to Bamboo
* Identified Configuration Items (CI) and documented their characteristics. After every deployment, delivered the Release notes on Confluence site
* Deployed Enterprise Application Archive (EAR), Web Application Archive (WAR), JSPs, and Servlets in staging, and production
* Created and maintained Shell scripts for building applications
* Knowledge of Chef as configuration management tool to automate repetitive tasks, quickly deploy critical applications, and proactively manage change
* Involved in release planning and executed the release build request from the project team through JIRA ticket
* Implemented Automated Application Deployment using Chef

**Environment:** Git, Subversion, Apache Tomcat, Bamboo, Jenkins, Maven, Confluence, Artifactory, Rally, JIRA, Chef, CentOS, Shell Scripts