

Abhineet Sood

Sr. Cloud Engineer
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PROFESSIONAL SUMMARY

- Over Nine (9+) years of IT experience as a DevOps Engineer in automating, building, deploying and releasing of code from one environment to another environment.
- Hands-on experience with AWS services like EC2, ECS, ELB, EKS, S3, VPC, IAM, SQS, RDS, Lambda, Cloud Watch, Storage Gateway, Cloud formation, Elastic Beanstalk and Autoscaling.
- A Professional in configuration Management, Change/Release/Build Management, System Administration, Support and Maintenance in environments like Red Hat Enterprise Linux, and expertise in automating builds and deployment process using Shell scripts with focus on DEVOPS tools, AWS Cloud Architecture.
- Experience Working with Terraform key features such as infrastructure as a code, execution plans, resource graphs, change automation and extensively used auto scaling launch configuration templates for launching AWS EC2 instances.
- Understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations.
- Experience with Source Code Management (SCM) tools like Subversion (SVN), GIT/ GITHUB.
- Experience in Systems Administration (Installation, Configuration, Tuning and Upgrades of Linux (RedHat, Ubuntu), Windows, x UNIX platforms.
- Worked with automation tools like Jenkins, GitLab, to Deploy and implement the End to End Automation.
- Experience in working with CI/CD tools like GitLab and Jenkins. Experience in deploying the micro services on the cluster and maintaining.
- Experience with Nexus and Artifactory as a repository management tools.
- Experience with Shell/Bash, Ruby scripting language and good understanding knowledge of Python.
- Worked on volume of nodes on Cloud Computing Platform AWS & Azure for building, deploying and managing applications and services.
- AWS Cloud platform and its features which includes IAM, EC2, VPC, EBS, CloudWatch, Cloud Front, Route53, EKS, Lambda, RDS, S3 ect.
- Worked PCF to provide the underlying infrastructure that organizations need to facilitate continuous delivery of software updates, manage the application life cycle and streamline the development, deployment, and scaling of web-based applications.
- Worked with Docker on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud Automation of the services on Cloud stack- Open stack, Google compute engine.
- Experience with Kubernetes, Docker and Amazon EKS for running containerized applications.
- Use the AWS Cloud Development Kit (CDK) for setting up Infrastructure as Code with Python.
- Worked with Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
- Expertise in configuring and managing services like AWS EC2 using AMI's available. Configured multiple servers depending on application needs using continuous integration tools like Jenkins.
- Deployed Cloud Front to deliver content further allowing reduction of load on the servers.
- Created IAM policies for delegated administration within AWS and Configure IAM Users/Roles/Policies to grant fine-grained access to AWS resources to users.
- Demonstrable experience with developer tools like Code Deploy, AWS Code Build, Code Pipeline, design the overall Virtual Private Cloud VPC environment including server instance, storage instances, subnets, high availability zones, etc.
- Hands on experience working on Kubernetes, Clusters, AWS Cloud formation, Jenkins.
- Project experience of designing and architect serverless web application using AWS Lambda, API Gateway, Dynamo Db and Security Token Service (STS).
- Hands on experience of BASH Shell scripting on Ubuntu Linux environment with Amazon AWS CLI.
- Good understanding of Web Application deployment and maintenance of IIS 5.0 and 7.0, Apache on Amazon Web Service (AWS).
- Knowledge of automation/configuration management using Chef recipes and cookbooks.
- Demonstrated understanding of AWS data migration tools and technologies including Storage Gateway, Database Migration and Import-Export services.
- Good understanding of networking concepts including TCP, VPN, VPC, NAT, Bastion Host, Subnet, DNS, Gateways and Routers.
- Excellent knowledge of source control management concepts such as Branching, Merging, Labeling/Tagging and Integration, with tool like GIT and TFS.
- Good knowledge of full Software Development Life Cycle (SDLC) stages in a Waterfall and Agile environment.
- Good at Relational database design, stored procedure, triggers, user-defined functions, SQL jobs.
- I am self-motivated, team-oriented professional who can work independently, also I am confident of my ability to quickly learn and implement modern technologies in no time.

CERTIFICATIONS:

- Red Hat Certified System Administrator (Linux 7) (May 04, 2018)
- AWS Certified Solutions Architect – Associate (Aug 21, 2019)
- Certified Kubernetes Administrator – in progress (October 2022)

TECHNICAL COMPETENCIES:

Programming Languages: Python, Bash Shell Scripting, Java Script, TypeScript

Public Cloud: Amazon Web Service VPC, EC2, Lambda, API Gateway, S3, EBS, RDS, IAM, Route53, CloudFront, Dynamo DB, CloudWatch.

Web Servers: IIS, Apache

CI/CD/CM Tools: TeamCity, OpsWork, CloudFormation, Chef, JIRA, Confluence

Database Concepts: MS SQL Server, PL/SQL, DB Backup & Maintenance

Networking: TCP-IP, Network Security, Subnets, VPN, DNS, Routing

Methodology: Enterprise Architecture, Agile, Software Design, Software Engineering, RDBMS, OOPs, MVC Architecture and Data Modelling using UML

Technologies: REST API, SOAP, XML, JSON, WSDL, Payment Gateways, Windows Services.

Operating Systems: Linux/Ubuntu and Windows 7/8/10

PROFESSIONAL EXPERIENCE:

CISCO (Austin TX) Remote

Jan 2019 – Present

Sr. Cloud Engineer

Responsibilities:

- Setup & Managing windows Servers on Amazon using EC2, EBS, ELB, SSL, Security Groups, RDS and IAM.
- Managing VPC, Subnets; make connection between different zones; Blocking suspicious IP/subnet via ACL.
- Managing CDN on Amazon Cloud Front (Origin Path: Server / S3) to improve site performance.
- Managed the deployment of AWS Connect solutions using AWS CloudFormation, Git, and Jenkins, and performed regular updates and maintenance tasks to ensure high availability and reliability.
- Create & Managing buckets on S3 and store DB and logs backup, upload images for CDN server. Setup databases on Amazon RDS or EC2 instances as per requirement.
- Designed and developed scalable and secure RESTful APIs using API Gateway, AWS Lambda, and AWS DynamoDB, including implementing caching, throttling, and authentication.
- Designed and developed multiple AWS Connect contact flows for inbound and outbound customer interactions using Amazon Connect, AWS Lambda, and Amazon S3.
- Managing AMI/Snapshots/Volumes, Upgrade/downgrade AWS resources (CPU, Memory, EBS).
- Created Python ETL pipelines for teardown and “trickle” data migration from different backends to Snowflake, SQL Server, and Vertica
- Created a Python/Django based web application using Python scripting for data processing, MySQL for the database, and HTML/CSS/JQuery and High Charts for data visualization of the served pages
- Implemented microservices architecture for cloud-based applications, including containerization using Docker and orchestration using Kubernetes.
- Placed data into JSON files using Python to test Django websites. Used Python scripts to update the content in database and manipulate files
- Creation of POCs and architecture for upcoming engagements.
- Configured AWS Connect routing profiles, queues, and hours of operation to meet business requirements and optimize customer experience.
- Working as team member within team of cloud engineers and my responsibilities includes.
- Utilizes agile software development practices, code reviews, source code management, continuous delivery, and software architecture
- Manage the AWS infrastructure and strategic vendor relationships including development.
- Create, update, and manage shell scripts in a Red Hat environment, including operational scripts as well as monitoring scripts.
- Developing templates or scripts to automate everyday developer or operations functions
- Develop automation framework for public cloud infrastructure deployments.
- Designed and deployed event streaming solutions using Apache Kafka and ActiveMQ, including configuring topics, brokers, and consumers.
- Using Jenkins for build automation and CI/CD pipelines using both Declarative and Scripted approach.
- Working on the Migration of the current apps in the Legacy K8 clusters to Amazon EKS.
- Worked no application developed both in JAVA and PYTHON.
- Integrated AWS Connect with Salesforce CRM and Zendesk ticketing system to enable seamless data exchange and enhance agent productivity.
- Creating IAM policies for creating cluster in the AWS EKS.
- Working on testing the newly created application cluster end to end.
- Designed and deployed databases on the cloud, including SQL databases like MySQL, PostgreSQL, and Aurora, and NoSQL databases like DynamoDB and MongoDB.
- Updating, trouble shooting, and patching up the servers. On the physical location as well.
- Working under time bound management, both on production and non-production servers.
- Working with monitoring tools like Nagios to check the health and also the setup the alerts.
- Update Helm charts and ingress files and changing the end points of the app to hit the new cluster.
- Used Terraform to setup the Infrastructure in AWS. Working with both prod and non-prod environments.
- Implemented AI and machine learning solutions for cloud-based applications, including using AWS SageMaker, TensorFlow, and PyTorch.
- Implemented AWS Connect security features such as encryption at rest and in transit, IAM roles, and access policies to ensure compliance with HIPAA and GDPR regulations.
- Working with application which have more services and handling the volume and creating the alerts.
- Help developers and testers to understand the CD/CI practices and process for Securing and Hardening the Environments and Continuous Integration tools.
- Updating the existing or creating new pipeline for deployments using both Jenkins and GitLab. Creating health checks for the migrated applications.

Environment: Linux, Windows, Unix shell scripting, Windows PowerShell, DevOps, EC2, PHP, Python, Oracle, Progress, MySQL, Jenkins, AWS cloud services

Public Cloud: Amazon Web Service VPC, EC2, Lambda, API Gateway, S3, EBS, RDS, IAM, Route53, CloudFront, Dynamo DB, CloudWatch.

TrueCar, Washington DC
Sr. Cloud Engineer

Sep 2016 – Dec 2018

Responsibilities:

- Manage the AWS infrastructure and strategic vendor relationships including development.
- Architected and implemented a highly scalable and fault-tolerant AWS Connect solution for a global customer service team, leveraging AWS Lambda, DynamoDB, and Kinesis Data Streams.
- Utilizes agile software development practices, code reviews, source code management, continuous delivery, and software architecture
- Create, update, and manage shell scripts in a Red Hat environment, including operational scripts as well as monitoring scripts.
- Developing templates or scripts to automate everyday developer or operations functions
- Develop automation framework for public cloud infrastructure deployments.
- Troubleshoot and resolved various technical issues with AWS Connect, including contact flow errors, call quality issues, and system outages, using AWS CloudWatch, X-Ray, and other monitoring tools.
- Using Jenkins for build automation and CI/CD pipelines using both Declarative and Scripted approach.
- Working on the Migration of the current apps in the Legacy K8 clusters to Amazon EKS. Creating health checks for the migrated applications.
- Customized AWS Connect contact flows with advanced features such as speech recognition, text-to-speech, and sentiment analysis, using Amazon Lex and Polly services.
- Worked no application developed both in JAVA and PYTHON. Working on testing the newly created application cluster end to end.
- Creating IAM policies for creating cluster in the AWS EKS. Working with both prod and non-prod environments.
- Updating, trouble shooting, and patching up the servers. On the physical location as well.
- Working under time bound management, both on production and non-production servers.
- Working with monitoring tools like Nagios to check the health and also the setup the alerts.
- Provided training and support to contact center agents and supervisors on AWS Connect functionality and best practices, and collaborated with cross-functional teams to gather requirements and implement new features and enhancements.
- Update Helm charts and ingress files and changing the end points of the app to hit the new cluster.
- Used Terraform to setup the Infrastructure in AWS. Working with application which have more services and handling the volume and creating the alerts.
- Provided technical guidance and mentorship to junior engineers on cloud-based technologies, including best practices for architecture design, deployment, and optimization.
- Help developers and testers to understand the CD/CI practices and process for Securing and Hardening the Environments and Continuous Integration tools.
- Updating the existing or creating new pipeline for deployments using both Jenkins and GitLab.

Environment: Linux, Windows, Unix shell scripting, Windows PowerShell, DevOps, EC2, PHP, Python, Oracle, Progress, MySQL, Jenkins, AWS cloud services
Amazon Web Service VPC, EC2, Lambda, API Gateway, S3, EBS, RDS, IAM, Route53, CloudFront, Dynamo DB, CloudWatch, CloudFormation, EKS, Jenkins.

R Hollenshed (Maryland)
Cloud Engineer

Jan 2015 – Aug 2016

Responsibilities:

- Performed S3 buckets creation, and policies on the IAM role based policies and customizing the JSON template.
- Worked on Various AWS services like EC2, IAM, Cloud watch, RDS, Lambda, Route53, S3 and SNS.
- Developed web interfaces using HTML5, CSS3, CSS5 JavaScript, AngularJS, and JQuery.
- Worked on Designing and approving the AWS architecture diagrams and release models.
- Managed Amazon Web Services infrastructure with automation and configuration management tools such as Ansible and Jenkins.
- Work closely with development teams to integrate their projects into the production AWS environment and ensure their ongoing support.
- Developed GUIs using, SPRING MVC, SPRING web flow Frameworks.
- Proficient with container systems like Docker and container orchestration like EC2 Container Service, Kubernetes, worked with Terraform
- Built Continuous Integration environment using Jenkins, Nexus, Yum and puppet.
- Experience AWS services (VPC, EC2, S3, RDS, Redshift, Data Pipeline, EMR, Dynamo DB, Redshift, Lambda, SNS, SQS).
- Experience in developing the plumbing plans and creating the annotated diagrams.
- Designed and deployed APIs using Apigee, including configuring policies, proxies, and analytics.
- Experienced in authoring pom.xml files, performing releases with the Maven release plugin, Maven of Java projects and managing Maven repositories.
- Responsible for the Continuous Delivery pipeline given to all application teams as they onboard to Jenkins as a part of migration.
- Involved in designing and deploying multiple applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high availability, fault tolerance, and auto- scaling in AWS Cloud Formation.
- Worked with Kafka and AMQ to design and deploy event-driven architectures, including implementing message brokers, producers, and consumers.
- Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux) and configuring launched instances with respect to specific applications.
- Manage Amazon Redshift clusters such as launching the cluster and specifying the node type.
- Used AWS Beanstalk for deploying and scaling web applications and services developed with Java.

- End to end deployment ownership for projects on AWS. This includes Python scripting for automation, scalability, builds promotions for staging to production etc.
- Hands on with Git / GitHub for code check-ins/checkouts and branching etc.
- Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud Watch.
- Used Terraform for cloud Automation like setting up the target environment which comprises of VPC's, Subnet's, Security Group's for the migrated server's to be launched.
- Excellent hands-on experience in installation, configuration and troubleshooting the issues and performance tuning of WebLogic/Apache/IIS and Tomcat.
- Written shell scripts for end-to-end build and deployment automation. Run Ansible Scripts to provision Dev servers.
- Created Docker container using Docker images to test the application even ship and run applications.

Environment: Amazon Web Service VPC, EC2, Lambda, API Gateway, S3, EBS, RDS, IAM, Route53, CloudFront, Dynamo DB, CloudWatch.

Ten-x Labs Newark, DE
System Engineer

Sep 2013 – Dec 2014

Responsibilities:

- Configured and managed CloudWatch logs and CloudTrail alerts across all environments.
- Created a process for system updates to minimize risk of application failures.
- Managed daily activities to include user support and system administration tasks.
- Managed, monitored and tested individual and group user access privileges and security.
- Monitored system performance and prevented resource exhaustion using iostat, netstat and Newrelic.
- Deployed across multiple environments via Jenkins.
- Utilized Ansible to deploy base yum packages across RHEL images.
- Scheduled jobs and automating processes using CRON and AT.
- Performed swap space management and installed patches and packages as needed.
- Used Newrelic & Splunk tool for monitoring.
- Installation and configuration of initial server setup.
- Planning of OS upgrades for existing infrastructure.
- Responsible for executing daily nightly batch jobs (ingestion scripts).
- Created System Backups on bi-weekly basis.
- Provided input on ways to improve the stability, security, efficiency and scalability of the environments.

Education:

Bachelor of Science in Accountancy from Southern Illinois University in August 2017.