

Swetha R

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PROFESSIONAL SUMMARY:

- Over 10+ years of experience in automating, configuring, and deploying applications on Cloud environments, with expertise in selecting and utilizing AWS Cloud services including IAAS, PAAS, and SAAS.
- Proficient in software configuration management (SCM) principles and practices within Agile, Scrum, and Waterfall methodologies.
- Expertise in Creating IAM policies for delegated administration within AWS and Configure IAM Users / Roles / Policies to grant fine - grained access to AWS resources to users.
- Extensive experience in implementing Continuous Integration, Continuous Delivery, Continuous Deployment, and DevOps processes using Java, Jenkins, Subversion, GIT, Oracle, UNIX/Linux, Dockers, Chef, Puppet, and AWS.
- Extensively worked on AWS Cloud services like EC2, VPC, IAM, RDS, ELB, EMR, ECS, Auto - Scaling, S3, Cloud Front, Glacier, Elastic Beanstalk, Lambda, CDK, Elastic Cache, Route53, Ops Works, Cloud Watch, Cloud Formation, RedShift, DynamoDB, SNS, SQS, SES, Kinesis Firehouse, Lambda, Cognito IAM.
- Experience in Integrating Kubernetes applications with CI/CD pipelines (e.g., Jenkins, GitLab CI/CD) for automated deployments, rollbacks, and version management.
- Experience with setting up Chef Infra, bootstrapping nodes, creating and uploading recipes, node convergence in Chef SCM.
- Experience in AWS services such as CloudWatch, Lex, Amazon Connect, Lambda, and S3, with scripting expertise in Python and PowerShell.
- Experience in OpenShift Container Platform for Kubernetes cluster management and Dockers containerization.
- Expertise in designing, developing, testing, and maintaining ETL processes for data extraction, transformation, and loading.
- Experienced in managing OpenShift clusters, deploying applications on Azure, and utilizing GitHub for issue tracking and project management.
- Experience in Designing and developing interactive and visually appealing dashboards using Grafana, presenting key metrics and insights to stakeholders.
- Experience in writing scripts for creation of new snapshots and deletion of old snapshots in S3 using S3 CLI.
- Experience in Designing and implementing multi-region and multi-Availability Zone (AZ) deployments for high availability and disaster recovery using Amazon EKS.
- Experience in Implementing CI/CD pipelines using tools like Jenkins and GitLab CI/CD, automating application builds, testing, and deployments on Open Shift.
- Extensive experience in deploying and debugging applications on WebSphere, Tomcat, and Docker containers using Amazon ECS.
- Experience in Building/Maintaining Dockers container clusters managed by Kubernetes, Linux, Bash, GIT, Dockers, on GCP.
- Proficient in using Shell, Bash, and Python, to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS and scheduling Lambda functions for routine AWS tasks. Worked on creating database tables that can store, retrieve and serve any amount of data traffic using DynamoDB.
- Experienced in installing, configuring, and managing of databases such as SQL Server, MySQL, NoSQL, DB2, PostgreSQL, Oracle, DynamoDB, and MongoDB & Cassandra.

- Experienced in implementing Data warehouse solutions in Redshift and Red Hat Linux system administration.
- Strong background in System Administration, System Builds, Server Builds, Security, Backup, Disaster Recovery, and Performance Monitoring on Unix Red Hat Linux Systems.
- Proficient in building and managing cloud environments with OpenStack and VMware, and in installation, configuration, tuning, and security on Red Hat, Cisco, Linux, UNIX, Centos, and Ubuntu systems.
- Experience in worked on version control tools like Subversion, TFS, GIT, Bit bucket, CVS, Perforce Version and experienced with tagging, branching on platforms like Linux/Windows. Used Source code management client tools such as GIT Bash, GitHub, GIT-GUI and other CLI applications.

TECHNICAL SKILLS:

Programming languages	C, C++, (CI, CDK), Python, Unix/Linux Scripting, HTML, SQL, C#, SQL, PL/SQL, .NET, Node.js, Dot NET Technologies, Jenkins, Jira and Web Technologies NET Framework 4.0/3.5, OCP4, ASP.NET, Web Forms, Win Forms, ADO.NET, Web Services, And ASP, HTML, XML, CSS, Perl, PowerShell, Java, Java spring, Java Script, Angular JS, jQuery, XAML, JSON.
Protocols / Services:	DNS, HTTP, HTTPS, NFS, IPV4, IPV6.
Web / Application Servers:	Apache, Apache Tomcat, WebLogic
AWS Cloud Tools:	EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, Cloud Front, Elastic File System, RDS, Python, CDK, DMS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Trail, Cloud Formation, IAM, EMR ELB, RDS, AM
Databases/operating systems	SQL Server 2008, PL-SQL, Aurora, Linux (Red Hat, CENTOS & SUSE), Ubuntu, Solaris, DEBAIN, HP-UX, Windows.
Containerization Tool:	Docker
Container Management tool:	Docker Swarm, Kubernetes and Aws ECS
Monitoring Tool:	Nagios, ELK stack and Splunk
Version Control:	TFS 2010/2008, GIT, SVN
DevOps Tools:	Chef, Jenkins, Dockers, Puppet
Build Tools:	Ant, Maven, Ivanti Heat patching tool
Tools:	Visual Studio 2010/2008/2005, Type Script, Eclipse, Microsoft Visio, Microsoft Office 2007/XP/2003/2000, AWS Console, VMware, Windows, Firewalls

EDUCATIONAL DETAILS:

Bachelor of Commerce, (Osmania University) Loyola Academy- 2000.

MBA in HR (Osmania University) Loyola Academy, Hyderabad, India -2003.

PROFESSIONAL EXPERIENCE:

Dow Jones, New York NY
Feb -2021 – Present
AWS Cloud Engineer
RESPONSIBILITIES:

- Working with team to Design and Deploy Containers on AWS EKS [Elastic Kubernetes Service], build, automate and document a multi-tiered managed services platform.
- Created and maintained highly scalable and fault tolerant multi-tier AWS and Azure environments spanning across multiple availability zones using Terraform and CloudFormation.
- Implemented encryption mechanisms for data in transit and at rest, managing encryption keys securely using AWS Key Management Service (KMS) to protect financial transactions and sensitive information.
- Worked as Chief Architect on new banking product (CBaaS) which is cloud native SaaS product, features Core Banking, Payments, Lending and wealth management, this is first cloud native complete banking product.
- Monitoring Resources and Applications using AWS Cloud Watch, lex, including creating alarms to monitor metrics such as Red Hat, EBS, EC2, ELB, RDS, S3, Lambda, and configured notifications for the alarms generated based on events defined.
- Designed, development, and implementation of Cloud solutions, cloud migrations Network storage and App services on AWS.
- Championed in cloud provisioning tools such as Terraform and CloudFormation.
- Created documents on build process and flow, type script maintenance, user guide for developers for local builds.
- Deployed and Implemented Data Warehouse Solutions for Star Schema in Amazon Redshift.
- Involved in Architecting Legacy Data Migration projects such as Teradata to AWS Redshift migration and from on-premises to AWS Cloud.
- Implemented Redshift Cluster, Leader and Computes Nodes to process large amount of data and also used the COPY command to LOAD data into Compute Nodes.
- Set up the Docker engine in the cloud EC2 instances, and created Docker containers to build, ship and run the images to deploy the applications.
- Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.
- Deployed AWS with Chef, Ansible and Terraform towards AWS or Google Compute cloud, and using Terraform for building, updating, and versioning infrastructure safely and efficiently, as well as creating custom in-house solutions with Chef or Puppet configurations.
- Implemented infrastructure using Terraform, treating infrastructure as code to achieve automation, consistency, and version control.
- Implemented and managed Terraform state files to track the current state of infrastructure, enabling collaboration and preventing resource conflicts.
- Designed and developed custom Kibana dashboards to visualize log data trends, anomalies, and key performance indicators.
- Utilized DynamoDB in server less architectures, seamlessly integrating with AWS Lambda functions to build scalable and cost-effective applications without managing infrastructure.
- Managed deployments in EKS managed Kubernetes, setup multi nodes cluster and deployed containerized application.
- Used Terraform formation templates and other configuration management tools to deploy consistent OpenShift infrastructure code across multiple environments.
- Created Terraform scripts to move existing on-premises applications to cloud.

- Used open shift Infrastructure as code and modifying Terraform scripts as and when configuration changes happen.
- Developed environments of different applications on AWS by provisioning on EC2 instances using Docker, Bash and Terraform.
- Integrated DynamoDB into gaming applications, ensuring responsive gameplay by handling unpredictable workloads and bursts of traffic with its scalable architecture.
- Successfully deployed DynamoDB in applications with dynamic and unpredictable workloads, optimizing scalability and ensuring cost-effectiveness in cloud environments.
- Developed API for using AWS Lambda and lex to manage the servers and run the code in the AWS and Git flow methodology.
- Configured CORS settings in API Gateway to enable secure cross-origin resource sharing for web applications, allowing controlled access from different domains.
- Set up logging and monitoring features in API Gateway, utilizing CloudWatch Logs and Metrics to track API usage, identify issues, and optimize performance.
- Leveraged DynamoDB to store and query data for advertising technology and marketing analytics, supporting user behavior tracking and engagement metrics.
- Used Terraform scripts to Automate Instances for Manual Instances that were launched before.
- Involved in using Terraform migrate legacy and monolithic systems to Amazon Web Services.
- Managed Data bricks workspaces in the cloud, providing a collaborative environment for data engineers, data scientists, and analysts.
- Implemented custom Logstash filters and grok patterns to extract relevant information from log events.
- Setting up the build and deployment automation for Terraform scripts using Jenkins.
- Evaluated VMware VMs for compatibility with OpenStack, considering factors such as operating system versions, hypervisor differences, and resource requirements and created Snapshots through LVM and VMware.
- Developed multiple internal and external AWS Connect that interact with back-end systems such as SAPCRM, Database, BPM, Salesforce and applications hosted on Azure and AWS cloud.
- Written Chef Cookbooks and recipes in Ruby to Provision several pre-prod environments consisting of lex, lambda, Cassandra DB installations, WebLogic domain creations and several proprietary middleware installations.

Novartis, East Hanover NJ
– Jan 2021

Apr 2018

AWS CLOUD ENGINEER
RESPONSIBILITIES:

- Implemented AWS solutions/cloud migrations using EC2, S3, RDS, EBS, Elastic Load Balancer, lambda, Auto scaling groups and Cloud Formation Templates.
- Created Amazon EC2 instances using command line CLI and troubleshoot the most common problems with instances and monitor the health of Amazon EC2 instances and other AWS services.
- Worked on AWS cloud watch for monitoring the application infrastructure and used AWS email services for notifying & configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.

- Created customized AMIs based on already existing AWS EC2 instances by using create image functionality, hence using this snapshot for disaster recovery.
 - Implemented API Gateway features for authentication and authorization, including API keys, IAM roles, and custom authorizers, ensuring secure access to APIs.
 - Integrated AWS API Gateway with AWS Lambda functions, enabling serverless compute for handling API requests and responses efficiently.
 - Involved in Setting up S3 buckets for Artifact management and Storage of batch files for multi cluster batch application.
 - Worked on Google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
 - Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
 - Configured Elastic Load Balancers with EC2 Auto scaling groups.
 - Configured EC2 Instances for Red hat OpenShift nodes with EBS block storage for persistent volumes, and S3 buckets for Open Shift registries along with snapshots for backups.
 - Worked with the GitHub API to automate tasks, retrieve repository data, or create custom tools that enhance development processes.
 - Automated environment build and provisioning using virtualization, containerization, and orchestration tools with VM Ware, Dockers, Kubernetes, GCP and Jenkins.
 - Created a Lambda Deployment function, and configured it to receive events from your S3 bucket.
 - Implemented cloud-specific security configurations within Databricks, including identity and access management, encryption, and network security.
 - Implemented serverless data pipelines on Databricks, taking advantage of cloud serverless computing offerings.
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- Created Cloud Watch alerts for instances and using them in Auto scaling launch configurations. Monitoring the server alerts through Nagios for on-premise servers, Cloud Watch and troubleshooting the alerts in the cloud environment (AWS).
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- Developed a data migration plan for transferring VM images, snapshots, and associated data from VMware to OpenStack-compatible formats.
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- Performed functional testing on migrated VMs in the OpenStack environment to ensure applications operate as expected.
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- Designed the data models to be used in data intensive AWS Lambda applications which are aimed to do complex analysis creating analytical reports for end-to-end traceability, lineage, and definition of Key Business elements from Aurora.
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- Configured OpenStack Horizon to manage provision and monitor cloud resources.
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- Optimized resource utilization in the OpenStack environment, achieving better scalability and flexibility compared to the previous VMware infrastructure.
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- Proficiently managed comprehensive cloud infrastructure using OpenStack, including expertise in provisioning, and orchestrating virtual machines, configuring networking solutions, implementing robust identity and access management (IAM), ensuring secure storage through block and object storage services, and optimizing resource utilization with auto-scaling capabilities along with monitoring and alert solutions using Grafana and Prometheus.

- Managed Linux virtualization platforms such as VMware, KVM, or Xen, including virtual machine deployment, migration, and performance tuning.
- Did a POC on OpenStack (Heat) as customer was looking for auto-scaling for cloud resources.
- Configured and managed virtualization infrastructure using VMware vSphere.
- Managed and maintained a large-scale Linux-based infrastructure running on VMware.
- Used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, Bare Metal Servers, and Docker containers. Also, configured RDS instances and map more complex dependencies and identify network issues using Terraform.
- Worked in Configured GitHub Actions to automate build, test, and deployment workflows, ensuring continuous integration and delivery.
- Used the Network health monitoring tools (Cloud Watch, Solar Winds, and Logic Monitor).
- Configured the Support and enhance SDLC cycle by using Docker containers delivered to Open Shift Container Platform.
- Involved in Software Configuration Management, Build & Deployment Management.
- Setup alerts in Splunk to notify support team regarding AWS connects Direct connect errors logged by tech Data Power load balancer.
- Worked on NICE Call Recording System which includes Stop on Demand and Record on Demand.
- Good experience with deployment of micro services and applications on Amazon EKS, leveraging Kubernetes manifests and Helm charts.

**Slack, San Francisco, CA
2018**

Feb 2016- Feb

AWS CLOUD ADMINSTRATOR

RESPONSIBILITIES:

- Involved in designing and deploying a multitude application utilizing almost all of the AW'S stack and AWS Lambda (Including EC2, Route53, S3, Aurora, OCP4, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling.
- Created IAM policies for delegated administration within AWS and Configure IAM Users / Roles / Policies to grant fine - grained access to AWS resources to users.
- Involved in supporting cloud instances running Linux and Windows on AWS Administrator, experience with Elastic IP, Security Groups and Virtual Private Cloud in AWS Administrator.
- Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Puppet.
- Installed and configured chef server / workstation and NodeJS via CLI tools to AWS nodes.

- Created AWS Route53 to route traffic between different regions. Configured the environment and work station using Kafka.
- Implemented rate limiting and request throttling in API Gateway to control and protect backend resources from traffic spikes, ensuring optimal performance.
- Configured API Gateway for request and response transformations, enabling data format conversion, payload modification, and other customization as needed.
- Created users and groups using IAM and assigned individual policies to each group.
- Created load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance.
- Implemented Continuous Integration and deployment using various CI Tools like Jenkins, GitHub, and Bamboo. Developed Chef Cookbooks and Recipes to manage systems configuration
- Developed multiple internal and external AWS Connect that interact with back-end systems such as SAPCRM, Database, BPM, Sales force and applications hosted on Azure and AWS cloud.
- Generated Billing reports using AWS services like billing dashboards, trusted adviser, cost explorer and Cloud Trail for cost optimization and Fin-Ops pipeline.
- Wrote python scripts to manage AWS resources from API calls using BOTO SDK and also worked with AWS cloud formation CLI/CFN.
- Configured and managed Elastic Load Balancing (ELB), to avoid single point of failure of applications, thus providing high availability and network load balancing.
- Developed environments of different applications on AWS by provisioning on EC2 instances using Docker, Bash and Terraform.
- Used Terraform and did "Infrastructure as code" and modifying Terraform scripts as and when configuration changes happen.
- Worked on Installation, configuring and monitoring Cassandra Cluster.
- Designed the data models to be used in data intensive AWS Lambda applications which are aimed to do complex analysis creating analytical reports for end-to-end traceability.

Ticket Master Beverly Hills, CA
2013- Dec 2015

Sep

System Administrator

RESPONSIBILITIES:

- Monitored and service issue resolution of LAMP stacks web servers, both shared and VPS. Improved monitoring with Nagios and custom plugins. Worked with KVM Hypervisor to install, configure and maintain Red Hat Linux.
- Attended meetings and analyzed information obtained from management to conceptualize and define operational problems. Successfully completed Virtual Machines migration and ESXi boot LUNs from old VMAX to new VMAX storage.
- Migrated the current Linux environment to AWS/RHEL Linux environment and used auto scaling feature.
- Implemented day-to-day tasks in Red Hat Linux that include upgrading rpms, kernel, HBA driver, configuring SAN Disks, multipathing and LVM file system.
- Experienced in administrating user and groups accounts setting permissions, web servers, file servers, firewalls and directory services.
- Maintained the database of user profile and Backup/Restore using Windows Backup.
- Maintained the LAN/WAN infrastructure as a member of Network Monitoring Team.
- Contributed in framing the methodology for Network administration System Administration, support and maintenance.

- Handled support of workstations, networks, peripherals, software, security, configuration management
- Handled installations of operating system, software application and Upgrades and Post Installation activities in all Servers
- Installed, configured, and updated Linux machines (Mix of Ubuntu, CentOS and Red HatRHEL). Troubleshooting Hardware, Operating System Application & Network problems and performance issues; deployed latest patches for, Linux and Application servers, Performed Red Hat Linux Kernel Tuning.
- Performed all levels of hardware and software systems support for many computers and printers.
- System Performance Monitoring and capacity planning in anticipation of resource usage and needs.