

**Objective:**

AWS Certified Solutions Architect with over 7 years of experience in designing and implementing cloud-based solutions for large enterprises. Seeking a challenging role in a dynamic organization to leverage my technical expertise in AWS and help clients achieve their business goals.

**Education:**

UNIVERSITY OF MARYLAND EASTERSHORE, PRINCESS ANNE, MARYLAND, USA	DEC 2016
BACHELOR OF ENGINEERING IN BIO-INFORMATICS, BHARAT UNIVERSITY, CHENNAI, INDIA	AUG 2011

**Personal Website:**

<https://suseelkumar.com/>

**TECHNICAL SKILLS**

Operating Systems	Linux, Windows, Mac OS, Unix
Build Tool	Jenkins, Docker, GitHub Actions, AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, AWS Elastic Beanstalk, AWS Amplify
Scripts & Languages	Shell Script, Python, Ruby, SQL, JavaScript, Groovy.
Version Control Tools	GIT, Bitbucket.
CI Tools	Jenkins, AWS CodePipeline.
Cloud	AWS
Databases	MySQL, SQL Server, PostgreSQL, RDBMS
Virtualization / Containers	Docker, Amazon EC2, Kubernetes, VMware, VirtualBox.
Applications & Configuration Management	Terraform, AWS CloudFormation, Puppet.
Web/AppServers	Apache Tomcat, Nginx.



Monitoring & Logging Tools	Splunk, Datadog, Elasticsearch, Amazon CloudWatch
Web Technologies	HTML, JavaScript, CSS.
Bug Tracker & Testing	JIRA, Pytest.
SDLC	Agile, Scrum, Waterfall

## WORK EXPERIENCE

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**Client:** Disney Streaming, Manhattan, NY

**Sep 2018 - TILL DATE**

**Role:** Cloud Software Engineer

### Responsibilities:

- Planning and managing security permissions for our internal Development teams with a particular focus on AWS Security, and Technical Analysis Documentation,
- Technical Design Documentation
- Providing the suggestions/solutions with respect to the standards and best practices of AWS security Guidelines
- Familiarity with SSL Certificate management, VPC networking, Security Groups/Fire-walling and DNS
- Designing and improve internal Security-management tooling
- Designing and developing code/Repository management and branching strategies
- Building Continuous Integration environment (Jenkins). And Continuous delivery environment, like configuring and integrating the servers with different environment and creating new machines using PUPPET.
- Created release branches in GITFLOW by GIT Administration including branching, reporting and assisting with project and end user support.
- AWSEC2/VPC/S3/SQS/SNS based infrastructure automation through Terraform, Python bash Scripts.
- provisioning and AWS administrations like EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, CloudFront, Elastic File system, RDS, DynamoDB, VPC, Route53, CloudWatch, CloudTrail,
- Creating scripts, for end-to-end build and deployment automation.
- Configuring and troubleshooting issues with automated tool Puppet that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation. Related issues with puppet manifests for deployment and automation and integrating Puppet with Jenkins to fully deploy on to a Jenkins server to provide continuous deployment and testing to automate deployment of infrastructure.
- setting up ELK with Docker and Docker-Compose. Actively involved in deployments on Docker and artifactory.
- Creating AWS IAM Role based polices customizing the JSON templates.

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- Launching AWS EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu/RHEL) and Configuring launched instances with respect to specific applications. Creating Snapshots and Amazon Machine Images (AMI's) of EC2 Instance.
- creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch.
- Writing /automate files to run arbitrary Groovy scripts within the Jenkins master runtime or in the runtime on agents
- Setting up IP networking, VPN's, DNS, load balancing and firewalling.
- Working with external partners, and with Cloud and Datacenter services, SSL Certificate management, VPC networking, Security Groups/Fire-walling and DNS.
- Creating real-time monitoring and alerting of applications deployed in AWS using Cloud Watch, Nagios, ELK stack and Splunk.
- Creating and developing the reports with users having data issue transactions and create a mail alert to Supervisors to guide them.
- Deploying the application artifacts on the Linux AMI's
- Elevating the code from non-production to production
- Configuring environment with global settings
- Providing the assistance to end-users
- Implementing and supporting deployments to PROD and NON-PROD
- Monitoring the jobs during pre-production phase and also jobs running on PROD.
- Providing the fixes and solutions faced by end-users in PROD.
- managing security permissions for our internal Development teams with a particular focus on AWS Security.
- Supporting and troubleshooting issues on AWS services, such as EC2, ELB, ECS, ACM, CloudFormation, IAM, VPC, Direct Connect / Networking, Data Analytics (Redshift), Kinesis, Lambda and API Gateway.

**Environment:** AWS, Puppet, Jenkins, EC2, IAM, cloudtrail, systems manager, VPC, Route53, EBS, SQL, ELB, Cloud watch, Cloud Formation, Docker, Jira, AWS CLI, AWS Auto Scaling, Unix/Linux, Python, Ruby, Shell scripting, Git.

**Client:** Samsung SmartThings, Mountain View, CA

**Mar 2017 – Aug 2018**

**Role:** AWS/groovy Engineer

### **Responsibilities:**

- Involved in designing and deploying multitude applications utilizing AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.
- Creating AWS Lambda functions for Alexa and google voice and integrating smartthings with voice services to control cloud connected and hub connected devices using Alexa and google voice.

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- Creating and monitoring dashboards on Datadog for Realtime monitoring of analytics and matrices of AWS lambda functions including google and Alexa voice for smartthings devices
- Developing, Implementing and debugging code in java, groovy for cloud connected and hub connected devices and also the user interface for specific applications in Smartthings.
- Analyzing smart things IDE and publishing device handlers with their respective smart apps for connectivity of hub and cloud connected devices to control them using smartthings
- Designing and Developing a testing framework for the Alexa Canary service for smartthings devices.
- Create and manage Docker deployment pipeline for custom application images in the cloud using Jenkins
- Dealing with various Git Hub and Git lab repository for pushing the code and resolving the merge conflicts.
- Configured AWS IAM and Security Group in Public and Private Subnets in VPC.
- Created AWS Route53 to route traffic between different regions.
- Involved in extending Active Directory Domain Services(AD) into cloud
- Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
- Implemented automated local user provisioning instances created in AWS cloud.
- Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
- Familiarity with Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespaced versions.
- At CoreOS, we use the kube-aws CLI tool to automate cluster deployment to AWS
- Configuring and Networking of Virtual Private Cloud (VPC) Written CloudFormation templates and deployed AWS resources using it.
- Created local repository to connect Linux server to RHEL site for downloading packages and patches.
- Knowledge of Node.js and frameworks available for it
- Integration of user-facing elements developed by front-end developers with server side logic using Node.js.
- Automated deployment of builds to different environments using Jenkins
- Strong experience utilizing Jenkins for enterprise scale infrastructure configuration and application deployments – checking out code from svn/git and use ant/maven to build war/jar artifacts and creating pipelines
- Used MySQL, DynamoDB and ElastiCache to perform basic database administration. Build out server automation with Continuous Integration - Continuous Deployment tools like Jenkins/Maven for deployment and build management system
- Wrote PowerShell scripts for automating time consuming specialty needs for external clients.
- Built Continuous Integration environment Jenkins and Continuous delivery environment.
- Defined branching, labeling, and merge strategies for all applications in Git.
- Utilized Configuration Management Tool Chef& created Chef Cookbooks using recipes to automate system operations.

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- Written Chef Cookbooks for various DB configurations to modularize and optimize end product configuration, converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes
- Installed and configured configuration tool such as ChefServer / workstation and nodes via CLI tools to AWS nodes
- Moving Opsview/Nagios Alerting system to Sensu and handoff to NOC for managing alerts/incidents.
- Developed internal tool QuickDeploy for runbook automation, and automated release and deployment Management process using shell scripts, windows batch, and python with Rundeck and Jenkins.
- Analyze and correct order flow exceptions by implementing changes to our OMS, WMS/Agile, and customer checkout via a JIRA process.
- Manage 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 Chef.
- Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS
- Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection (VPC).
- Deployed applications on AWS by using Elastic Beanstalk.
- Configured plugins for the integration tools to the version control tools.
- Used ANT and MAVEN as a build tools on java projects for the development of build artifacts on the source code.

**Environment:** AWS, Chef, Puppet, Jenkins, VPC, Route53, EBS, SQL, ELB, Cloud watch, RunDeck, Cloud Formation, Docker, Jira, AWS CLI, AWS Auto Scaling, Unix/Linux, Python, Ruby, Shell scripting, Git.

**Client:** CELSTREAM TECHNOLOGIES, BANGLORE, INDIA

**JAN2013-SEP2014**

**Role:** DevOps Engineer

### **Responsibilities:**

- Involved in setting up **Jira** as defect tracking system and configured various workflows, customizations and plug-ins for the Jira bug/issue tracker.
- Wrote and maintained various **Ansible** modules for the upstream Ansible repository.
- Integrated **Maven** with Perforce to manage and deploy project related tags.
- Installed and administered **Tomcat** repository to deploy the artifacts generated by **Maven** and to store the dependent jars which are used during the build.
- Mentor Business Areas on **Subversion Branching**, Merging strategies concepts.
- Resolved update, merge and password authentication issues in **Jenkins** and **Jira**.
- Involved in implementing Tool Suite (Jira, Jenkins).
- Setting up continuous integration and formal builds using Jenkins with Maven and Tomcat repository.

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- Built Openstack based infrastructure for **Database as a service(DBaaS)** and **Load Balancer as a service(LBaaS)**.
- Installed and configured Confluence as the enterprise wiki to document development and change management procedures.
- Maintained custom **PowerShell scripts** that interact with Office 365, Active Directory, SQL, and VMware.
- Involved partially in deploying **WARs/EARs** (backend) through **Weblogic Application Server console**.
- Performed setup of clustered environment with Weblogic Application Server.
- Used **Shell script** to configure the Weblogic application server in all the environments
- Support Lead developers with Configuration Management issues.
- Worked for Creating the Software Configuration Management Plan.
- Managed all the bugs and changes into a production environment using the **Jira** tracking tool

**Environment:** Openstack, Ansible, Jenkins, Jira, Linux, Weblogic, Subversion, Shell scripting.