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| **Summary** |

Highly motivated, analytical, and process-oriented with 6+ years of experience in DevOps and Prod/Cloud Support activities. Expertise in Supporting Infrastructure (AWS, Linux, Windows), with a strong background on web applications, middleware, and databases. Worked collaboratively with teams to help design, build, deploy and implement a wide array of visualization solutions focused on helping stakeholders improve insight-driven decision making.

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| **Experience Summary** |

* 6+ years of experience as DevOps Engineer and Cloud Development Engineer involving extensive work towards code compilation, automation, packaging, building, debugging, managing, tuning and deploying code across multiple Cloud environments.
* In-depth understanding of the principles and best practices of Software Configuration Management (**SCM**) in **Agile**, **SCRUM**, **Waterfall** methodologies.
* Wrote **Ansible**playbooks to manage configurations and automate installation process.
* Used **Ansible**and **Ansible**Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Managing the configurations of multiple servers using **Ansible** & **Chef.**
* Managed environments DEV, QA, UAT and PROD for various releases and designed instance strategies.
* Good knowledge about **CI/CD**.
* Managed **Multi Flavour of Linux** and **Windows** virtual servers with Ansible & Chef using **Git**.
* Extensively worked on **Cloud Bees**, **Jenkins** for continuous integration (CI) and for End-to-End automation for all build and deployments.
* Performed Automation and Scaling of applications using **Kubernetes.**
* Experience with **Ansible**Tower to manage Multiple Nodes and Manage Inventory for different Environments.
* Used **Ansible**to orchestrate software updates and verify functionality.
* Terraforming and CloudFormation to code all infrastructures into AWS Environments.
* Organized different infrastructure resources like physical machines, VMs and even containers using Terraform.
* Worked on Terra form to set up the AWS infrastructures such as launching theEC2 instances, S3buckets, VPC, Subnets, and created the module driven AWS Infrastructure with Terraform.
* Used **GIT**as Version Control System for two applications. Managed development streams and Integration streams.
* Used **AWS**Bean Stalk for deploying and scaling web applications and services developed with Java, Node.js, Python and **Ruby**on familiar servers such as Apache, and IIS.
* Worked on **Docker**container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Experience working on several Docker components like Docker Engine, Hub, Machine, **Compose**and Docker Registry.
* Experience working on **docker hub,**creating docker images and handling multiple images primarily for middleware installations and domain configurations.
* Used **Docker**for configuration management automation
* Setup Elastic Load Balancer for distributing **traffic**among multiple Web Logic servers and involved in deploying the content cloud platform on Amazon Web Services using **EC2, S3**and **EBS.**
* Creating the AWS Security groups to enable firewall.
* Automated **AWS**volumes snapshot backups for enterprise using Lambda.
* Created functions and assigned roles in AWS **Lambda**to run python scripts.
* Administration and maintenance of **Docker**runtime environment, Versioning and lifecycle management of **Docker images**, Experienced in Docker orchestration framework.
* Automated Compute Engine and Docker Image Builds with **Jenkins**and **Kubernetes.**
* Having good implementation experience with installation and configuration of **Kubernetes,** clustering them and managed local deployments in **Kubernetes.**
* Provided consistent environment using **Kubernetes**for deployment scaling and load balancing to the application from development through production, easing the code development and deployment **pipeline**by implementing **Docker**containerization.
* Integrated **Kubernetes**with network, storage, and security to provide comprehensive infrastructure and orchestrated container across multiple hosts.
* Created Docker images using a **Docker file**. Worked on Docker container **snapshots**, removing images and managing **Docker volumes** and experienced with Docker container service.
* **Ansible**playbooks to manage configurations and automate installation process.
* Used **Ansible**and **Ansible**Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Managing the configurations of multiple servers using **Ansible.**
* Managed Artifactory repository for the current project created a new repository and provisioned it.
* Performed Automation and Scaling of applications using **Kubernetes.**
* Experience with **Ansible**Tower to manage Multiple Nodes and Manage Inventory for different Environments.
* Experience in Private Cloud setup /POC/Configuration/maintenance.
* Efficient in working closely with Development, QA, Product and Business owner teams to ensure high quality and timely delivery of builds and releases across multiple platforms and environments.
* Worked as an independent contributor, Self-motivated and energetic professional, Strong Organizational skills and ability to do multitask, ability to quickly acquire an in-depth knowledge of the company's product and systems
* Experience in implementing new features of SQL Server 2008 like Policy Based Management, Resource Governor, Data Collector sets and Backup Compression Techniques.
* Used Ticketing & Project Management tools like Jira, Team Foundation Server in DevOps, Service Now, and HPQC.

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| **Technical Skills** |

* **DevOps Tools:** Jenkins, Maven, Artifactory, Docker
* **Version Control:** Subversion, Git
* **Source Control Management Tools:** GitHub, Bitbucket
* **Bug Tracking Tools:** Jira, Bugzilla
* **Cloud Platforms:** Amazon Web Services ((EC2, VPC, EMR, S3, ELB, RDS, DMS, Autoscaling, Athena, Route 53)
* **Monitoring Tools:** AWS Cloud watch
* **Collaboration Tools:** Hip chat, Confluence, Slack, Hangouts, Skype
* **SDLC:** Agile, Waterfall
* **Tools:** Visio, MS Office, Excel, PPT, Office 365, Lucid chart, HPQC, SNOW
* **Operating Systems:** Linux, RHEL, Ubuntu, Mac OS X, Windows 98/XP/7/Vista/8/10

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| **Professional Experience** |

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| 1. | **Organization:** | C2H - Client |
| **Duration:** | Jan 2021 to Till Date |
| **Designation:** | DevOps Engineer |
| 2. | **Organization:** | Cognizant Technology Solutions, Chennai – India |
| **Duration:** | Feb 2011 to Oct 2011 |
| **Designation:** | Sr. System Executive - CIS - IT IS |
| 3. | **Organization:** | Amtex Systems, Chennai – India |
| **Duration:** | Aug 2008 to Jan 2011 |
| **Designation:** | QA Executive |

**Professional Experience:**

**C2H – DevOps Engineer Duration:** Jan’ 21 - Till Date

**Dallas, TEXAS**

Provided client-centric, customized program management, information technology and logistics services to federal agencies of all sizes in every arena, helping them to manage processes, optimize operations and increase their return on investment.

**DevOps Engineer**

**Roles & Responsibilities:**

* Defined infrastructure builds using CloudFormation and TerraForm.
* Designed secured, cost-optimized, highly available and fault-tolerant infrastructures in AWS.
* Implemented security best practices in AWS including multi-factor authentication, access key rotation, role-based permissions, enforced strong password policy, configured security groups and NACLs, S3 bucket policies and ACLs etc.
* Delegated access across AWS accounts using IAM cross-account roles.
* Leveraged EC2 Lifecycle Manager to create snapshots of EBS volumes on scheduled intervals for backup and define and a retention period as a cost-saving measure.
* Leveraged STS to generate and provide temporal credentials to users.
* Architect a static website to host a one-time event or in a disaster recovery scenario by leveraging Route 53.
* Established communication between VPCs using VPC Peering and Transit Gateway.
* Configured lifecycle configuration rules on S3 buckets to move data between storage classes for easy accessibility, archiving and or cost optimization.
* Designed a highly performing infrastructure for elasticity and scalability using Elastic Cache to cache common queries on a database, Cloud Front - Edge Locations and read replicas for read queries.
* Architected infrastructures to mitigate DDOS attacks with Cloud flare.
* Continuously optimize build and CI server to fasten the Process of deployment using latest Technologies like Artifactory, Docker, Ansible, Cloud Formation Terraform and Python scripts.
* Setup and configure new builds, monitor build failures, identifying the cause and notifying developers to address the issue
* An immediate fix for the code is key in Agile workflow (Continuous improvement), Hence automatic error notification plays important role in software development.
* Automating Infrastructure as code and Scaling infrastructure with High performance and availability.
* Involved in security testing, Windows Server Administration (WSUS), Infrastructure Solutions, ADD and DNS.
* Web application development using Web forms, C#, VB.net, JCL, Jscript and AJAX control.
* Used SVN for source code repository, code integration, Defect tracking in JIRA and HP QC.
* Maintaining and developing Docker images with Kubeles for ECS, EMR, Cloud stack including Cassandra, Kafka, Apache and several in house written in both OpenStack and AWS cloud on Kubernetes.
* Used Docker and Kubernetes to manage micro services deployment.
* Used Kubernetes to create Pods, Config Maps and deployments into the cluster.
* Hands on experience on Kubernetes to automate the deployment, scaling and operations of application containers across clusters of hosts.
* Worked with containerization tool Docker and running containers and services and utilizing docker swarm.
* API to provide lightweight containers that run processes isolation and worked on creation of customized Docker container images, tagged and pushed the images to the Docker Hub repository.
* Built and deployed a Ansible Server in AWS for infrastructure automation.
* Creating Chef Cookbooks and Recipes to maintain and automate various parts of infrastructure.
* Configuration on WebSphere which includes writing Linux scripts- Shell scripting.
* Continuous Integration using Maven, Jenkins, Hudson.
* Involved in migration of Artifactory & GIT server.
* Created S3 bucket to host a static website with logging and versioning and customizing the template as per the client's requirement.
* DB administration and scripting in SQL, MySQL, Oracle databases for report generation and data management.
* Customized the log monitoring for a better and convenient reading of the logs by creating the indices and passing them on to the Elasticsearch which provides a URL for Kibana access.
* Responsible for designing & deploying new ELK clusters (Elasticsearch, Logstash, Kibana, beats, Kafka, zookeeper.
* Used Javascript to create a workout timer dynamic overlay, which updates the database via saved timestamps. Workaround was required to save the timestamp on tab out of mobile browser.
* Adept at Angular front-end development, have made native mobile apps in spare time.
* Established communication between VPCs using VPC Peering and Transit Gateway.

**Environment:** Terraform, CloudFormation, Automation Anywhere, AWS, Shell scripts, GIT, Jenkins, Apache Tomcat, DataDog, Splunk, EFK, Nexus, Ansible, Docker, Kubernetes, ServiceNow, Dynatrace, GitHub.

**Cognizant Technology Solutions** **Duration:** Feb 2011 to Oct 2011

Sr. System Executive - CIS - IT IS

**CHENNAI, INDIA**

As a **Production Support Engineer** responsible for 24x7 support and maintain availability of 300 Production servers in an LPAR and stand-alone environment. Research production problems to identify root cause and make recommendations to management to initiate corrective actions to improve overall quality and system reliability. Manage system installation and migration, troubleshooting, maintenance, performance tuning, managing storage resources, network configuration, designing solutions to fit application and database requirements, and developing recovery methods.

**Responsibilities:**

* Assist with troubleshooting and issue resolution relating to current applications, providing assistance to the development
* Provide ongoing internal reporting of performance measures and service levels
* Champion and promote service improvements on an ongoing basis to continually improve the quality of services delivered and customer satisfaction
* Manage and coordinate hot fix and maintenance releases.
* Trouble-shooting production incidents requiring detailed analysis of issues on web and desktop applications, Autosys batch jobs, and databases (both relational and VSAM for mainframe)
* Analyze production issues to determine root cause and provides fix recommendations to the development team
* Support applications in production. Note interruptions or bugs in operation and perform problem solving exercise to determine problem and ensure continued use of the application.
* Coordination of work activities involving TI, Data Centre, DBA’s, Local and Global Technology teams
* Develop, implement and/or improve the application production support knowledge management repository(s) to ensure all are documented, process & procedures are clear and periodic reviews are conducted
* Provide support to the business during day-to-day activities and ad-hoc requests
* Maintained client relationship by communicating the daily status and weekly status of the project.
* Training and troubleshooting are provided to new users in the team on the tool.

**Amtex System**  **Duration:** Aug 2008 to Jan 2011

QA Executive

**CHENNAI, INDIA**

As a **QA Executive** responsible for working on Web Focus & Developer Studio Product from WF 768, 769, 7610, 7611, 77 and 7701 releases and Written VB script for olap in QTP.

**Responsibilities:**

* Written QTP scripts for Olap and Info assist & analyzed the suite results using QTP against windows and updated the results in big site.
* Tested manually basic functionality for the WF 77 product
* Performed Functional and regression testing.
* Finding and Reporting bug using bug tracking tool.
* Worked in different platforms like Unix & Zos.
* Tested the functionality of the product in IE and Firefox browsers.
* Handled WF 77 Product single handed.
* Tested on WF 7610 Hot fix suites.
* Did Web Focus Installation bi-daily on auto server machine using Tomcat, IIS/TC, Alias, CGI and Upgrade Installation, Report caster Installation, Developer Studio.
* Handled Developer studio suites for WF 769(Rational robot).

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| **Education & Training** |

Bachelor of Information Technology, SRM Valliammai Engineering College – Anna University, Chennai. (2004-2008)

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