**Yaswanth**

**Sr. DevOps Engineer**

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**Professional Summary:**

* **8 +** years of IT experience as **AWS** Cloud computing,Microsoft **Azure,** DevOps Engineer, Build and Release Engineer, System Engineer and Unix/Linux Administrator.
* Implemented successful IT strategies and hands-on experience supporting, automating, and optimizing critical deployments in **Cloud Technologies (AWS and Azure), JAVA, Automation., DevOps processes Cloud Migration, Linux System Administrator,** andExpertise in **Continuous Integration and Continuous Delivery** **(CI/CD)** tools like Jenkins**.**
* Provisioning EC2 instances and have knowledge on all resource areas of **EC2** like Instances, Dedicated hosts, volumes, Keypairs, Elastic IP's, Snapshots, Load Balancers and Security Groups.
* Expertise in Amazon AWS Cloud Administration which includes services like: EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, **Route 53**, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups.
* Connected user requests to infrastructure running in **AWS** such as Amazon EC2 instances, Elastic Load Balancing load balancers, or Amazon **S3 buckets** and outside AWS using Amazon Route 53.
* Experienced in Administration of Production, Development and Test environments carrying different operating system platforms like Windows, Ubuntu, Red Hat Linux, Centos and Solaris servers.
* Profusely worked on Version control tools like Subversion, **GIT**, clear case to track changes made by different people in source code.
* Extensive experience in ticketing and tracking tools like **JIRA**, and Bugzilla for Production hotfixes and bugfixes*.*
* Profoundly did **Continuous integration** using Hudson's/Jenkins, Anthill pro, Team city and Bamboo, which requires developers to integrate code into a shared repository several times a day.
* Experienced in working on **DevOps/Agile** operations process and tools area (Code review, unit test automation, Build & Release automation, Environment, Service and Change Management).
* Worked in an agile development team to deliver an end-to-end **continuous integration/continuous delivery** product in an open-source environment using tools like **Jenkins.**
* Used Terraform for server provisioning and infrastructure automation in a SaaS (Software as a Service) environment.
* Experienced with version control tools like GIT, CVS, Bitbucket and SVN. In depth knowledge on source controller concepts like Branches, Tags and Merges
* Worked on several DevOps tools Subversion **(SVN), GIT, Ansible and Docker** for Build, deploy, continuous integration to help developers work in an **Agile environment**.
* Setting up UNIX/Linux environments for various applications. Worked on different Linux distributions like Ubuntu, RHEL, Amazon Linux, CentOS.
* Worked with container-based deployments using **Docker**, with **Docker** images and have a good knowledge on Vagrant.
* Great communication and interpersonal skills, ability to learn, implement and explain new tools and technologies quickly and ability to work within stipulated timelines.
* Highly motivated and able to work with low supervision independently as well as in a team environment. Have practical and terrific trouble shooting skills.
* Hands-on experience in Azure cloud worked on Azure web application, App services, Azure SQL Database, Azure Blob storage, **Azure** Functions, Virtual machines, Fabric controller, A**zure** AD, Azure Data Factory, **Azure** Service Bus, and notification hub. Proficient in using Azure service fabric to package, deploy, manage scalable and reliable microservices and containers.
* Extensively used Terraform to a reliable version and created infrastructure on Azure. Also created resources, using **Azure Terraform** modules, and automated infrastructure management. Used Terraform to map more complex dependencies and identify the network issues.
* Managed **Kubernetes** cluster in the rollback and rollouts methods in the deployment strategies. Integrated Istio and helm packages with Kubernetes clusters for the service mesh.
* Experience in Google Kubernetes Engine GKE with Spinnaker for continuous delivery of applications to the engine in different stages, Google App services for deploying microservices in different environments, GCE instances, assigning IAM for projects, Cloud Shell CLI.
* Deployed microservices-based applications on **Azure Kubernetes** by using Azure Kubernetes Service (AKS), Ingress API Gateway, MySQL, SQL Databases, and Cosmo DB for stateless storage of external data, and set up reverse proxy Nginx servers and encrypting with SSL and TLS Skills.
* Lavishly worked on Installation, Configuration, and Management of **RDS** and **NoSQL tools such as SQL Server MySQL, DB2, PostgreSQL, and Cassandra.**
* Implemented the Docker for wrapping up the final code and setting up the development and testing environment using Docker Hub, Docker Swarm, and Docker Container Network.

**TECHNICAL SKILLS**

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| **Operating Systems** | Unix, RHEL/CentOS 5.x/6.x/7.x, Ubuntu/Debian/Fedora, Solaris 7/8/9/10, Windows Server 2003/2008 |
| **DevOps** | Ansible, Chef, Puppet, Jenkins, Maven, Ant, Docker, Kubernetes *,*Azure DevOps |
| **Languages** | Java, Shell, Bash, Perl, Python, Groovy,Ruby, PHP |
| **Databases** | Oracle, MySQL, SQL Server, MongoDB, NoSQL, and Cassandra |
| **Webb/AppServer** | Apache, IIS, HIS, Tomcat, WebSphere Application Server |
| **Bug Tracking Tools** | JIRA, Bugzilla, HP Quality Centre, and Remedy. |
| **Version Control** | GIT, SVN, Subversion |
| **Web Technologies/Programming** | Servlets, JDBC, JSP, XML, HTML, .Net, Java Script, Java/J2EE, C, C++, Perl scripting, Python, Shell scripting, Ruby, YAML |

**WORKEXPERIENCE:**

**Role: Senior DevOps Engineer**

**Client: CharterCommunication-** **St Louis, MO Aug 21 – Current**

**Responsibilities:**

* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Installed and administered Docker and worked with Docker for convenient environment setup for development and testing.
* Maintain the AEM servers in Dev, QA, Staging and Prod servers.
* Migration of apps from orchestrating tools like Marathon to Kubernetes.
* Deploying applications on Kubernetes using Helm Charts.
* Provide seamless platform upgrades without impact.
* Support labs for the purpose of development and testing of the platform
* Provide 24x7 supports for VCOS platform for applications (Verizon Cloud) in various datacenters.
* Setting up and configuring of Nagios, improved monitoring in Nagios and custom plugins.
* Automated AWS components like EC2 instances, Security groups, ELB, RDS, I AM through AWS Cloud information templates.
* Implemented Networking policies for Docker containers with open-source development tools like Docker containers.
* Worked on Jira for sprint tasks, issue tracking and for submitting access issue tickets.
* Worked on configuring S3 versioning and lifecycle policies for backing up files and archive those baked up files in Glacier and created monitors, alarms, and notifications for EC2 hosts using Cloud Watch.
* Act as a platform owner for all the AEM publishers, dispatchers and authors in Production and non-prod environments.
* Created chalk pages for documenting tasks performed on a daily basis.
* **Azure AD** - Implemented Azure AD using AD connect, configured **SSO,** and multifactor Authentication. Also configured SSO from Window 10-based computer which is joined to **Azure** **AD**. Implemented and managed AD synchronization.
* **Azure** **Storage** Planning Migrated Blob Storage for document and media files, Table storage for structured datasets, Queue storage for reliable messaging for workflow processing, and file storage to share file data.
* Extensive experience in Windows **AZURE**(**IaaS**) migrating like creating AZURE VMs, storage accounts, VHDs, storage pools, migrating on-premises servers to Azure**,** and creating availability sets in AZURE**.**
* Utilize the LAMP stack (Linux, Apache, MySQL, PHP /Perl) to meet customer needs. Designing and implementing for fully automated server build management, monitoring, and deployment by using DevOps Technologies like AWS,puppet, git, and Jenkins.
* Configured Performance Tuning and Monitoring for Cassandra Read and Write processes for fast I/O operations and low latency time and worked on monitoring solutions using tools **AppDynamics**, and **Dynatrace**.
* Creating Lambda function to automate snapshot back up on AWS and set up the scheduled backup.
* Written scripts in Shell when required and Parser files of complexity when required.
* Implemented a Continuous Delivery framework using Jenkins, Puppet, Maven, and Nexus in Linux environment.
* Handled integration of Maven/Nexus, Jenkins, GIT, and Jira.

**Environment:** Kubernetes, puppet, AEM, Splunk, AppDynamics, Bitbucket, JIRA, JFrog Artifactory, Chalk, Python, Apache, Redis, API, TCP/IP, Akamai, AWS, Helm Charts, Azure, Azure AD, Azure AD Connect, Azure MFA, Cassandra,

**Role: DevOps Engineer Feb 20 – July 21**

**Client: Sprint,Overland Park,KS**

**Responsibilities:**

* Building/Maintaining Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker, on AWS.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploys.
* Installed and administered Docker and worked with Docker for convenient environment setup for development and testing.
* Working with the container-based technologies like Docker, Kubernetes along with development of Microservices architecture using Flask micro framework.
* Deploying applications on Kubernetes using Terraform, Helm Charts.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed reaching one or more AWS EC2 instances. Used Elastic cache to setup, manage and scale a distributed cache-in environment in the cloud.
* Working AZ Cloud resources and migrating applications.
* Testing the microservices API endpoints using Swagger (Rest plus), Postman.
* Developed an ETL process to pull dealer data from snowflake to Oracle for Drive Train Consumer needs
* Deploying Elastic search to assist with environment logging requirements. Created different variations of Kibana dashboard running different instances of Elastic search, Logstash and Kibana and Kubernetes.
* Responsible for planning index and shards and index TTL strategies in Elastic search. Troubleshooting Elastic search errors.
* PostgreSQL widely using for open-source RDBMS while snowflake is multi-structured data handler.
* Involved in writing Java API for AWS Lambda to manage some of the AWS services and Kubernetes.
* Have designed Lambda function to detect and trigger the application whenever there a document is uploaded to AWS s3 bucket.
* Migration project from Oracle to Snowflake warehouse to meet the SLA of customer needs, Created ETL mapping document and ETL design templates for the development team.
* Created ETL pipelines using Stream Analytics and Data Factory to ingest data from Event Hubs and Topics into SQL Data Warehouse.
* Upgraded and patched Oracle database on Windows and Unix servers
* Scheduled various AWS Lambda functions to trigger various AWS resources.

**Environment:** SVN, Maven, Ansible, GIT, JIRA, WebLogic, JFrog Artifactory, AWS, Cloud, IAM, Jenkins, Python, My SQL, Redis, API, TCP/IP, Grafana, Postman,Swagger,Bitbucket, Helm Charts.

**Role: DevOps Engineer Dec 2018– Jan 20**

**Client:FedEx, Colorado Springs, Colorado**

**Responsibilities:**

* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch.
* Worked on cloud environment AWS, created EC2 instances and migrated various applications to AWS.
* Written Cloud formation templates and deployed AWS resources using the same.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed reaching one or more AWS EC2 instances. Used Elastic cache to setup, manage and scale a distributed cache-in environment in the cloud.
* Expert level experience with AWS DevOps tools, technologies and APIs associated with IAM, Cloud Formation, Cloud Watch, AIMs, SNS, EC2, EBS, S3, RDS, VPC, ELB, IAM, Route 53, Security Groups etc.
* Managed local deployments in Kubernetes, creating local cluster and deploying application containers.
* Supported small to medium sized projects using GitHub and administrate GitHub user setups. Worked on integrating GitHub into the continuous Integration (CI) environment along with Jenkins
* Worked extensively with API Management product of Apigee edge in consuming the Api’s in implementing customer use cases. Performed Service Level Testing for Web services using Soap UI, Postman and Apigee.
* Used Puppet to automate Configuration management and to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points and Packages.
* Created Jira workflows to automate deployment and issue tracking.
* Set up build notifications, created the users and assigned the permissions on bamboo.
* Deploy all build artifacts in tomcat server and resolved the issues for any failed jobs.
* Strong in building Object Oriented applications using Java, python, writing Shell Scripts on UNIX.
* Managing Users and Groups in Subversion (SVN) and troubleshooting client specific issues and user issues.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python.

**Environment:** Ansible, Bash, JIRA, Web Logic, Nexus, Artifactory, AWS, Cloud, IAM, Open stack, Jenkins, Python, My SQL, Dynamo DB, NoSQL, API, TCP/IP, Nagios.

**Role: DevOps Engineer Apr 2015 – July 2017**

**Client:Dhatsol, Hyderabad,India**

**Responsibilities:**

* Developed and Implemented software release management strategies for various applications according to agile process
* Deployed java applications to application servers in agile continuous integration environment and automated the whole process.
* Designed and Developed Jenkins build deployments Installed and configured Nexus repository manager for sharing artifacts between internal teams and created proxy Nexus repositories to speed up the build process.
* Involved in editing the existing ANT/MAVEN files in case of errors or changes in the project environments.
* Installed and configured GIT and GITHUB. Implemented and maintained the branching and build/release strategies utilizing GIT.
* Configured and monitored multiple servers using Chef. Defined Chef Server and Workstation to manage and configure nodes.
* Installed Chef Server Enterprise on premise/workstation/bootstrapped the nodes using knife and automated by testing Chef recipes/cookbooks with test-kitchen/chef spec.
* Used Chef and other configuration management tools to deploy consistent infrastructure code across multiple environments.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as Apache, JBoss, WebSphere, WebLogic; and deploying J2EE Applications to these environments
* Deployed the build artifacts into environments like QA, UAT and production according to the build life cycle.
* Verify deployed application is initializing and running efficiently. Verify the application logging and server logging are in place. Run unit test to verify the individual functionalities are working as expected.

**Environment:** Subversion (SVN), Chef, Jenkins, Confluence, Java/J2EE, ANT, MAVEN, Nexus, Web Logic, Shell Script.

**Role: DevOps Engineer Apr 2013 – Mar 2015**

**Client: Softboot Technologies, Hyderabad, India**

**Responsibilities:**

* Verify deployed application is initializing and running efficiently. Verify the application logging and server logging are in place. Run unit test to verify the individual functionalities are working as expected.
* Performed configuration, deployment and support of cloud services including Amazon Web Services (AWS) Configured an AWS Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon RDS, MySQL DB cluster.
* Used IAM for creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources and Worked with Terraform to create AWS components like EC2, IAM, VPC, ELB, Security groups.
* Converted existing AWS infrastructure to server less architecture (AWS Lambda) deployed via Terraform and AWS Cloud formation.
* Interacting with clients to gather information on requirements and managing critical client infrastructures, providing production support working on production issues and system administration support for a client with instances hosted in AWS Cloud environment.
* Setting up EC2s, Installing & Configuring them with required software
* Elastic Block Storage (EBS) and S3 buckets & enabling versioning & life cycle management policies on S3 buckets Maintaining:
* EC2 services like attaching volumes, configuring security groups, monitoring EC2 instance metrics like CPU Utilization, disk read/write operation and network High availability, scalability and security of applications
* Supervising designing, documentation, implementation, and maintenance of several applications that were a part of the product suites, including the main server application.
* Created private cloud using Kubernetes that supports DEV, TEST, and PROD environments and Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes infrastructure and micro service container orchestration.
* Installed and configured GIT and communicating with the repositories in GITHUB and Created and maintained
* Subversion/GIT repositories, branches and tags.
* Expertise in Installation, Configuration, Migration, Trouble-Shooting and Maintenance of Splunk, Passionate about Machine data and operational Intelligence.
* Designing and implementing Continuous Integration system configuring Jenkins servers, nodes, creating required Python scripts as well as bash scripts to create/configure Linux VMs.
* Developing Splunk queries and dashboards targeted at understanding application performance and capacity analysis.
* Involved in setting up application servers like Tomcat, WebLogic across Linux platforms as well as writing shell scripts, Bash, Perl, Python, Ruby scripting on Linux.
* Build continuous integration services and create the build machine to perform the DevOps process.
* Integrate SCM tools like subversion, git to enable source control versioning.
* Building continuous integration and automated deployment pipelines for the applications.

**Environment**: AWS, Jenkins, Terraform, Kubernetes, Docker, Python, Bash Scripts, Shell Scripts, SQL, Git, Maven, ELK, Splunk, PowerShell, Ubuntu, PHP Ruby, Rally.