Vikram Choudermet

DevOps Engineer

Experience

04/2019 - 09/2019

DevOps Engineer

HM Revenue and Customs, Southend-on-sea, UK

- Worked with Engineering Leadership and development team to translate scalability, performance, reliability, and functional requirements to cloud computing solutions.
- Designed and implementation of Continuous Integration and Continuous Delivery pipelines for Code review, Build & Release automation and Service, Incident and Change Management using Gitlab, Jenkins, Artifactory and Ansible.
- Developed scripts (BASH) on Linux systems for automation of the build, release process and automate deployment and release distribution process.
- Support Java micro-services application deployments in Amazon Web Services (AWS) in different environments like Personal, Development, FIT, DIT etc.
- Designed Ansible scripts and Terraform modules for the creation of infrastructure on AWS.
- Created and maintained Docker swarm environment for deployment of the Java based micro-services app running on a stack with MySQL, Apache on AWS.
- Implemented ELK stack across multiple environments for error logging, monitoring and alerting.
- Handling of planned maintenance, production outages, and projects.
- Built various environments using Desired State Configuration and repeatable designs.
- Develop Ansible code for configuration management.
- Communicate methods, findings, and hypotheses with stakeholders.

05/2018 - 04/2019

DevOps Engineer

HM Revenue and Customs, Telford, UK

- Provision, create and maintain infrastructure on the primary Cloud services supplier (Amazon Web Services) using tools like GitLab, Ansible, Puppet.
- Design and implement Continuous Integration/Continuous Deployment pipelines for a seamless delivery into production grade Cloud environments using tools such as GitLab, Jenkins, Terraform and Docker Swarm
- Designed Ansible scripts and Terraform modules for the transformation of infrastructure from Fijitsu Data Center to AWS Cloud platform using Infrastructure-as-a-Code with Idempotent and immutable infrastructure concepts avoiding snow flaking servers.
- Responsible for creating and maintaining CI pipeline in Jenkins (Maven Jobs) for the Java based micro-services application.
- Monitoring systems, tools and environments - production, development and test environments focused on supporting operations in mission critical AWS data centers using tools like Zabbix, Graffana etc.

Summary

I am a **SC Cleared** IT professional with 5 years of experience as a DevOps engineer specializing in on demand Cloud services platform and over 9 years total experience in IT. An **AWS certified DevOps engineer** with passion for Cloud infrastructure provisioning and automation. I have rich experience in implementing highly available, scalable and secure Cloud architectures for applications big and small. Working for startups and enterprises i have obtained unmatched exposure in various aspects of software life cycle development which enables me to intelligently streamline infrastructure and applications. I have a strong sense of ownership and accountability.

Personal Info

Address

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Phone

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E-mail

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Skills

Cloud Technologies: AWS (VPC, EC2, S3, CloudWatch, RDS, Route 53, IAM, CloudFormation)

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Dockers

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Docker Swarm

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Portainer

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Operating System: Linux (Red Hat 4/5/6, CentOS), Ubuntu, Windows

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Command languages: Bash

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CI/CD Tools: Jenkins, Semaphore CI.

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- Provided secure communication solution using SSL for the UI service in the Java micro-service application.
- Provision, configure and maintain Portainer (Docker UI) instances used by various internal departments for their CI activities.
- Management of library versions and depreciated code, design and sequencing of automation builds, test runs and troubleshooting methodologies - build failures due to dependencies, tests etc.
- Created and maintained Docker swarm environment for deployment of the Java based micro-services app running on a stack with MySQL, Apache on AWS.
- Involved in administration activities - user management, storage management including NFS, security etc of CentOS servers on a daily basis. Provided redundancy solution clustering with load balancing.
- Extensively used GitLab on a daly basis for maintaining Ansible code and Bash scripts.
- Manage entire pipeline tool stacks (Nexus, Jenkins, GitLab, Ansible, Puppet etc) ensuring tractability, repeatability, quality and support.
- Used Confluence to create and maintain documentation for the work i took responsibility of completion.
- Used JIRA as the primary issue tracking tool.

DevOps Engineer

Caditor

- Worked as a part of DevOps team responsible for infrastructure provisioning (infrastructure as code) & maintenance, deployment automation, Continuous Integration and Continuous Delivery/Deployments, security of assets and resources, monitoring – alarms and notifications, Develop architectural diagrams etc.
- Working in the team responsible for implementing industry best practices and compliance's. Working on web services technologies like REST application frame works.
- Provision Jenkins instance and responsible for the CI/CD pipeline - Starting with polling GitHub through deployment to EC2 instances.
- Used AWS CloudFormation on a daily basis to provision infrastructure for various production, test and personal environments.
- Provision web (Nginx) plus application (Gunicorn) instances and Database instances (PostgreSQL).
- Familiar with inner workings of web development stack - Bootstrap + Django (Python 2.7) + PostgreSQL.
- Extensively using JIRA on a daily basis for Bug tracking and project management on a daily basis.
- Worked on deploying Build artifacts to AWS EC2 environments.
- Worked exclusively on making web applications scalable and highly available in AWS. Using AWS services such as Elastic Load Balancers and Auto Scaling Groups.
- Conducting cost optimization audit for AWS resource usage.
- Build and release EC2 instances on Ubuntu 16.04 and Windows server 2016 for PoC, Development and Production environment.
- Worked with development team leads and testing teams to establish a build schedule, execute the builds and troubleshoot build failures (if any).
- Wrote Ansible plays and scripts using Python and BASH to automate deployment.
- Created AMI images of critical EC2 instances as backup using AWS CLI

09/2014 - 05/2018

Configuration Tools: Ansible
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Terraform
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Version Control System: GIT, Git Hub
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Web Server: Nginx, Gunicorn
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CodePipeline
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CodeDeploy
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Virtual Machine Tech: Vagrant, VirtualBox
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Web Technologies Exposure: HTML, Bootstrap (JavaScipt), Django
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DB Technology: PostgreSQL, MySQL
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Programming Languages: Python 2.7
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Project Management Tool - JIRA
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Zabbix
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Maven
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and GUI.

- Produce architectural diagrams using Lucid Charts.

04/2010 - 09/2014

IT Systems Analyst

Bentley Motors Ltd

- Contribute and maintain the **Volkswagen Materials Master Database (MMDB)** of various products and components that can later be used by Engineering, Purchasing, Manufacturing, Logistics, Finance etc.
- Install, Configure and Support various **CAD/PDM/PIM/CAM** environments - **CATIA V5, CATIA V5 DMU, SOLIDWORKS etc.**
- Supporting various Engineering processes & tools like **Catia Enovia v5, Teamcenter, Smart Team.**
- Analysing the Engineering requirements and Querying **VW MMDB** using **MySQL** for suitability of components and sub-products to a project with long term view.
- Regular reviews with the engineers by completing the checks on process critical Engineering data, **VM MMDB**, Integrated **SAP PLM application - TI Syncro**.
- Track electronic change documents like **ECO/ECR** using such tools like **BCTS, Microsoft Excel.**
- Identify and design process automation tasks using **CAD Macros** to streamline product development activities.
- Data migration including import, export, and data mapping – directly deal with clients to capture requirements for current and upcoming project data needs.
- Collaborate with team members, various departments and various support resources to address and close help desk tickets related to **PLM/PDM** Systems.
- Develop and maintain documentation associated with reference to configure, monitor, and report on license usage, create metrics and usage projections
- Providing appropriate technical assistance to the engineers in order to release their components and sub-products for the various build stages and file set-ups to the Suppliers/Manufacturing department.
- Responsible for components release into the build system, meeting all defined targets and attributes (Technical and Commercial – Cost, Quality, and Time).
- Responsible for robust validated requested changes of our build deliverables on manufacturing programmes and service updates.
- Identifying key trends and helping form actionable insight on issues, opportunities and performance drivers using large datasets containing a wide range of commercial and customer level data.

Education

01/2007 - 08/2008

University of Huddersfield

M.Sc Automotive Systems Design and Analysis

02/2002 - 02/2006

Visveswaraiah Technological University

Bachelor's Degree in Mechtronics Engineering

Certificates

AWS Certified DevOps Engineer

AWS Certified Developer Associate

Security

09/2018   **SC Cleared**

07/2018   **DBS Cleared**

04/2019   **BPSS**