**Vrushank Upasani**

**Linked IN Associated Email:** **Vrushankkishor9@gmail.com**

**T- Mobile #: 208-310-2455**

**Primary Contact # Google Voice: 602-529-4544**

**Linked IN:** [**https://www.linkedin.com/in/vrushank-upasani-8727071b2/**](https://www.linkedin.com/in/vrushank-upasani-8727071b2/)

**Location: Jersey City, New Jersery**

**Professional Summary:**

* 10+ Years of experience in the IT industry with major focus on DevOps Software Configuration Management, Linux/Windows Administration, site reliability, and Build/Release management using different cloud services of AWS (Amazon web service), Microsoft Azure and GCP (Google Cloud Platform) as a major infrastructure.
* Experience in Cloud computing, DevOps, CI/CD Pipeline, Build and release management, AWS and Proficient in prioritizing and completing tasks in a timely manner. Certified Chef and AWS Developer-Associate.
* Expertise in DevOps, Release Engineering, Cloud Infrastructure, and Automation. It includes Amazon Web Services (AWS) Ant, Maven, Jenkins, SVN, GIT, Godthab, Clear Case, Build Forge, CVS, Tomcat and Linux etc.
* Hands on experience on various AWS services like EC2, S3, RDS, EBS, VPC, IAM, ELB, NACL, SQS, SNS, SES, Cloud Watch, Cloud Formation, CloudFront, Cloud Trail, Route53, Security Groups, Route Tables, Lambda and several other services of AWS family and in depth practical knowledge on other cloud services like Azure, GCP, and Open Stack.
* In-depth knowledge of Apache Subversion (SVN) and Jenkins/Hudson/Build Forge Continuous Integration, Server - Installation, Configuration, Design and Administration, plus experience of extending and integrating these tools with other systems, platforms and processes using Java, Shell Scripting etc.
* Installing, configuring and managing the RDBMS and NoSQL tools like MySQL, DB2, PostgreSQL and MongoDB and experience in using bug tracking systems like Jira, Bugzilla, HP Quality Center and IBM ClearQuest.
* Experience in UNIX/Linux along with SQL development in designing and implementing Relational Database model as per business needs in different domains.
* Used scripting languages like Python, Ruby, Bash and configuration management tools Chef, Puppet and cloud Service like AWS.
* Experience in dealing with Windows Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, VPN, Application Gateways and Windows AzurePaaS storages like Blob (Page and Block), SQL Azure, Resource Groups, Express Route, Traffic Manager, VPN, LoadBalancing, Application Gateways, Auto-Scaling.
* Experience in using Jenkins to build pipelines to drive all microservice builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Experienced in installing, configuring and managing Docker Containers, Docker Images for Web Servers and Applications servers such as ApacheTomcat using Docker and integrated with Amazon MySQL RDS database.
* Experience in working on version control systems like GIT, and subversion and used source code management client tools like visual SVN, GIT BASH, GITHUB, GIT LAB, GIT GUI, STASH and other command line applications.
* Automated software with continuous Integration and Continuous Delivery Tools: Github/Bitbucket, Jenkins, Ansible/Chef, Docker.
* Extensively worked on Hudson, Jenkins and Bamboo for continuous integration and for End to End automation for all build and deployments.
* Build and configure a virtual data center in the AWS cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic LoadBalancer.
* Demonstrable cross-functional knowledge with systems, storage, networking, security and databases

**EDUCATION DETAIL:**

Bachelor’sin Computer Science, Gujarat Technological University (2012)

Masters’s in Computer Science, Monroe College- (2019)

**TECHINICAL SKILL SET:**

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| --- | --- |
| Operating Systems | Unix/Linux(RedHat, 5/6,CentoOs, SUSE), Ubuntu 14,Windows 2008 server |
| Versioning Tools | GIT, GitHub, GitLab |
| Configuration Management |  Chef, Puppet, Ansible, Terraform, AWS Ops Works |
| AWS Cloud Tools | AWS Administrator, EC2, VPC, EBS, S3, AMI, SQS, SNS, RDS, Cloud Watch, Dynamo DB, IAM |
| Languages | Python, SQL, HTML, |
| CI tools | Jenkins, AWS Code Build and Deploy |
| Scripting | MAVEN, Shell, Groovy, Yaml |
| Web Technologies | Servlets, JDBC, JSP, HTML, Java Script, XML. |
| Web Servers | Apache Tomcat, JBOSS. |
| RDBMS | Oracle, MY SQL, SQL server. |

**PROFESSIONAL EXPERIENCE:**

**Client: Office Depot, Remote**

**February2022- Till Date**

**Role: Senior DevOps Engineer/SRE**

**Responsibilities:**

* Defined and implemented solutions by understanding unique IT infrastructure, standards, and AWS&Azure infrastructure documentation needs.
* Creating 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.
* 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.
* Extensive experience on configuring Amazon EC2, Amazon S3, Amazon Elastic Load Balancing IAM and Security Groups in Public and Private Subnets in VPC and other services in the AWS
* Maintaining and developing Docker images for a tech 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.
* Applied HashiCorp Sentinel policies to enforce compliance and security standards in Terraform configurations.
* Create a custom image of an Azure VM with Azure PowerShell and create a VM scale set and deploy a high available app on Windows with Azure PowerShell.
* Harness allows the creation of end-to-end deployment pipelines, defining the flow of changes from code commit to production deployment
* Led the transformation of DevOps processes, introducing automation that resulted in faster deployments and reduced manual intervention.
* Experience in load balance Windows VM in Azure to create high available application with Azure PowerShell and manage Azure Virtual Network for Windows VM with Azure PowerShell.
* Experience in Backup and restore files for Windows VM in Azure cloud.
* Managed network security using Load balancer, Auto-scaling, Security groups and NACL.
* Worked on troubleshooting and optimizing performance issues related to Hashi Corp tools.
* Deploy application code using CI/CD pipeline with Azure DevOps in Azure cloud, scale VM build automation using Azure DevOps in Azure VM agent plug-ins.
* Virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers.
* Experience in creating Docker Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch on both Linux and Windows servers.
* Worked with AWS Cloud Formation Yaml and Terraform modules and deployed EKS Clusters.
* Creating BuildSpec and DeploySpecs jobs and CICD on AWS Code Build and Code Deploy.
* Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Managing Jenkins artifacts in Artifactory and versioning the artifacts with time stamp, Deploying artifacts into EC2’s in AWS cloud with ansible and Jenkins.
* Used Dynatrace for real-time monitoring of application performance, identifying bottlenecks in services, databases, and infrastructure.
* Led post-incident reviews and implemented corrective actions, refining system reliability and preventing the recurrence of similar issues
* Configured DynatraceOneAgent to monitor EC2 instances, containers, and Lambda functions, tracking metrics like CPU usage, memory consumption, and network activity.
* Created custom Dynatrace Dashboards to visualize key metrics for stakeholders, providing real-time insights into application performance, error rates, and infrastructure health.
* Used Dynatrace Distributed Tracing to monitor and trace individual transactions across microservices architectures, ensuring visibility into how different components interact.
* Integrated Dynatrace with Kubernetes to monitor pods, nodes, and clusters in real-time, detecting performance issues like CPU throttling, memory leaks, or improper pod scaling.
* Created continuous integration system using Ant, Jenkins, Pupspetfull automation, Continuous Integration, faster and flawless deployments.
* Installed and administered GIT source code tool and ensured the reliability of the application as well as designed the branching strategies for GIT.
* Deployed and configured Git repositories with branching, forks, tagging, merge requests, and notifications.
* Experience on working with on-premises network, application, server monitoring tools like ELK, Splunk,and on AWS with CloudWatch monitoring tool.
* Configured Filebeat to collect and ship logs from various sources to centralized log management systems like Elasticsearch, Logstash, and Splunk.
* Implemented log parsing and filtering rules within Filebeat to ensure relevant and structured log data is forwarded for analysis
* Designed scalable log collection solutions using Filebeat, supporting large-scale distributed environments and high-availability requirements.
* Enriched log events with additional metadata using Filebeat processors, enhancing the contextual information available for analysis.
* Proficient in multiple scripting languages including Python and Bash, leveraging automation tools to enhance operational efficiency and facilitate seamless deployment workflows.
* Experience installing, upgrading, and configuring RedHat Linux 6.x, 7.x, using Kickstart Servers and Interactive Installation.
* Managed systems routine backup, scheduling jobs, enabling cron jobs, enabling System logging and network logging of servers for maintenance.
* Experienced working with Logical Volume Manager ( LVM ) in creating physical volumes, volume groups and logical volumes, extending and resizing the volume groups

Environment: Terraform, AWS,S3, EBS, Elastic Load balancer (ELB), Auto Scaling groups, VPC,IAM, Cloud Watch, Glacier, DynamoDB, OpenStack, shell/Python scripts, GIT, Jenkins, Maven, Nexus, Ansible, Docker, Kubernetes, JIRA, Splunk, Nagios, Python, Nginx, Tomcat, Windows and Linux environment, VMware ESX/ESXI Server and Workstation.

**Client: MSKCC, NY**

**May 2019 to January2022**

**Role: Senior DevOps/Platform Engineer**

**Responsibilities:**

* Created AWS Launch configurations based on customized AMI and use this launch configuration to configure auto scaling groups and Implemented AWS solutions using EC2, S3, RDS, DynamoDb, Route53, EBS, Elastic Load Balancer, Auto scaling groups.
* Engage in and improve the software development lifecycle – from inception and design, through development, deployment, operation and refinement for greater reliability
* Maintain services during deployment and in production by measuring and monitoring key performance and service level indicators including availability, latency, and overall system health
* Define and implementation solutions by understanding each customer’s unique it infrastructure, standards, and AWS&GCP infrastructure documentation needs
* Design, build, and maintain CI/CD pipelines for Logic Apps and related components, such as connectors and workflows.
* Led cross-functional efforts in developing automation frameworks for environment provisioning, enhancing efficiency in development and testing cycles.
* Setting GitLab repository and Runner for build automation
* Set up and configure fisheye and black duck
* Administrating, installation, configuration of SonarQube Software and scan the code analysis.
* Stay up-to-date with emerging trends and technologies in DevOps and production support, and make recommendations for improvements to existing systems and processes
* Worked on core aws services such as setting up new server (ec2) instances/services in AWS, configuring security groups, and setting up elastic ip, auto-scaling and cloud formation.
* Developed massively scalable network-oriented software for the elastic load balancing (elb) service.
* Configured S3 versioning and lifecycle policies to backup files and archive files in glacier.
* Established infrastructure and service monitoring using prometheus and grafana
* Created monitors, alarms and notifications for ec2 hosts using cloudwatch.
* Experienced in Set up Auto Scaling of the instance group using GCP CLI (Command line tools) and GCP cloud environments for DEV/QA/STAGING/PROD environments.
* Set up build and deployment automation for terraform scripts using Jenkins. All the modules in terraform are developed in a TDD model.
* Integration of user-facing elements developed by front-end developers with server side logic using node.js
* All the servers were bootstrapped with respective packages and services installed. Hence, we were able to successfully implement auto-scaling.
* Solving various .Net application issues and providing various technical solutions for .Net, TFS and Microsoft IIS.
* Configured Jenkins-Sonatype nexus plug-in to upload the Nuget packages on to Nexus after the build is success.
* Based on some cost factors and efficient utilization of resources, we migrated from instances based to container-based platforms for which we deployed our entire infrastructure in kubernetes.
* Developed docker files for all the platform tools and created an automated pipeline in jenkins to do a docker build and upload the images to the docker internal registry.
* Implemented kubernetes cluster to maintain the docker containers & pods. Hence, we were able to achieve self-healing in our environment.
* Reduced build + deployment times by designing and implementing docker workflow.
* Controlled and automated application deployments and updates using kubernetes.
* Orchestration of docker images and containers using kubernetes by creating whole master and node.
* Develop docker images to support development and testing teams and their pipelines.
* Worked on writing python scripts to integrate git and jenkins with jira
* Experience deploying and managing infrastructure within a public cloud provider as a part of a hybrid environment with high availability requirements
* Troubleshooting and optimizing issues at every level of the stack

Environment: aws (ec2, s3, emr, lambda, kubernetes (k8s) , docker, codepipeline, glacier), cloudwatch, terraform, docker, kubernetes, jenkins, consul, splunk, grafana, node.js, python, linux (rhel), maven, git, apache tomcat, shell

**Client:JetBlue, NY
March2018–May2019**

**Role: Sr. Cloud Engineer / DevOps Engineer**

**Responsibilities:**

* Automated continuous integration build and release infrastructure for supervision technology applications.
* Worked on cloud formation to create eks cluster for deploying we applications and created a Kubernetes dashboard for monitoring and managing projects/namespaces inside the cluster and configured alarms for monitoring and notifying the health of master and worker nodes.
* Worked with the agile development teams in delivering an end-to-end continuous integration & amp; delivery of the applications using ansible and Jenkins.
* Used git & amp; subversion1.8.17 (svn) as source code repositories, managed for branching, merging, and tagging the files.
* Implemented POC using weave to create a mesh pod network between two kubernetesk8s clusters. Mentored developers in k8s design and custom application implementation
* Built and deployed docker containers to breakup monolithic apps into microservices, improving developer workflow, scalability.
* Made extensive use of github2.11.0 and ansible 2.3.0 to manage build / deploy tasks, including continues integration.
* Configured Jenkins to create docker image for build and performed tests on a docker container.
* Involved in file manipulations, file uploads using node.js.
* Developing application using various java /j2ee design patterns to improve usability and flexibility
* Analysing the data on Kibana, Grafana and Prometheus, and deriving the performance of the products. Stabilizing the servers
* Used Splunk to monitoring/metric collection for applications in a cloud based environment
* Expertise in terraform for multi cloud deployment using single configuration.
* Extensively used ansible for continuous deployment.
* Worked on AWS lambda for deploying application with zero downtime in aws elastic beanstalk for pipeline.
* Integrated cloud front with s3 storage for content delivery (cdn).
* Exposure in installing, configuring and supporting application server. Involved in applying fix packs and patches to lower environment.
* Worked on amazon virtual private cloud (vpc) in creating public subnets, private subnets and nat instances and dealt with security and access.
* Automated the contiguous process writing code using shell, bash, python scripting 3.6.0 languages
* Worked exclusively on VMware virtual environments
* Experience in using VMware motion to move VM's from one datacentre to another datacentre
* Configured VM’s in availability sets using azure portal to provide resiliency for iaas based solution and scale sets using azure resource manager to manage network traffic
* Created separate arm template for the creation of a storage account, azure SQL and for the azure webapp
* Worked on load balancer f5 ltm, gtm for the enterprise applications and their availability
* Worked on user administration setup, maintaining account, monitoring system performance using Nagios, Splunk, and CloudWatch
* Write automation/self-healing scripts in bash/python to maintain the cloud environment
* Serve as an escalation point for other systems administrators, engineers, and other technology teams in the resolution of server and system problems

Environment: aws, azure, java/j2ee, cloud formation, cloud watch, docker, rds, kubernetes, maven, ec2, git, bamboo, grafana, prometheus, splunk, VMware, ansible, shell, amazonvpc, node.js, json, bash, github, python.

**Client: IBM, India**

**November 2014 – June 2017**

**Role: Sr. Cloud Engineer / DevOps Engineer**

**Responsibilities:**

* Created AWS VPC network for the installed instances and configured the security groups and elastic ip's accordingly.
* Responsible for user management and plug-in management for Jenkins.
* Installed the application on AWS ec2 AMI instances and also configured the storage on s3 buckets.
* Configuration management and server application management using chef and puppet.
* Installed and maintained chef on different environments like Linux distribution, windows (agents), mac.
* Created the master/slave pattern for Jenkins to distribute the load and builds around the build farm.
* Worked with automation of OS builds and application installations through chef, Splunk, Nagios for application and hardware resource monitoring
* Used subversion for the purpose of software configuration management and maintaining the versions.
* Configure the route 53 dns and load balancers for the vpc (with public and private subnets) and the nacl with inbound and outbound rules.
* Documented the build and deployment process which could be used by the team if found any issues at the time of build and deployment of different applications to different environments.
* Used AWS beanstalk for deploying and scaling webApp and services developed with java, node.js, and python,
* Developed bash and python scripts for the purpose of manual deployment of the code to the different environments and e-mail the team when the build is completed.
* Involved in the installation and configuration of nginx as a load balancer.
* Most of the admin tasks are done using chef tools instead of doing manually and maintained user account across the network using chef
* Rapid-provisioning and configuration management for red hat Linux and windows using chef on amazon web services.
* Used Jira tool to track all the defects and changes released to all environments.
* Participated in the release cycle of the product, which involves environments like development, qa, uat and
* Engage in and improve the software development lifecycle – from inception and design, through development, deployment, operation and refinement for greater reliability.
* Served as a partial administrator for Linux machines.
* Support services prior to production via infrastructure design, software platform development, load testing, capacity planning and launch reviews
* Maintain services during deployment and in production by measuring and monitoring key performance and service level indicators including availability, latency, and overall system health
* System administration skills, including automation and orchestration of Linux/windows using chef, puppet, ansible, and salt stack
* Designed and implemented fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins nodes/agent, chef, VMware
* Responsible for user management, creating/managing libraries, projects, environments and schedules in build forge for build and deploy automation
* Collaborate to build and improve continuous integration, continuous delivery and continuous deployment processes for appropriate products
* Used shell scripts to automate the deployment process.
* Coordinated release effort amongst various teams (integration, QA testing, and business analysis) in a geographically separated environment
* Design and implement monitoring and alerting strategies to enforce application slas
* Create platform-as-a-service environments where entire subsets of our architecture can be created and destroyed cleanly and reliably.
* You will also foster a continuous deployment ecosystem that will allow us to operate at a massive scale.

Environment: AWS, chef, puppet, VMware, vsphere, ansible, salt stack, java, shell scripting, build forge, Nagios, Linux, windows

**Client: Screatives, India**

**May 2013 – November 2014**

**Role: Sr. Cloud Engineer / DevOps Engineer**

**Responsibilities:**

* Worked closely with the development team in the design phase and developed use case diagrams using rational rose.
* Managing Unix infrastructure and emc storage involving maintenance of the servers and troubleshooting problems in the environment.
* Installing operating systems Solaris, Linux and hp according to business requirements.
* Troubleshooting the issues ranging from Solaris, Linux and San environments.
* Worked with the architects on SDLC process being the owner of post development environments.
* Coordinating the resources by working closely with project manager for the release and project manager for all the operational projects.
* Carried deployments and builds on various environments using build forge automation tool.
* Wrote ant scripts to automate the build process.
* Used IBM rational clear quest for tracking the changes and approval process.
* Planning, scheduling and documenting releases at code freeze periods.
* Troubleshooting skills with network protocols such as dns, TCP/IP, SMTP & amp; snmp.
* Administration of networking devices such as routers and switches.
* Extensive implementation and troubleshooting experience under client server systems.
* Strong technical background in storage, disk management, logical volume management (lvm) and logical partitioning.
* Ability to handle multiple tasks and work independently as well as a team member.
* Provided on-call support and worked with vendors on system issues and bugs for its resolution.
* Proficient in system administration, system planning, co-ordination, commissioning, setting up security hierarchy and capacity planning.
* Worked on flexible hours for production, backup and on-call support for 24/7 environments.

Environment: linux, unix, dns, sun one directory server (ldap), ihs, iis, site scope, solaris, windows, cvs, perforce, java, eclipse, ant, jenkins, maven, tomcat apache application server.