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**Depthi B**

**AWS/Azure DevSecOps Engineer**

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**SUMMARY:**

* A multi-talented, energetic professional with more than 10 years of experience in virtualization, orchestration, automation, version control, monitoring, and Cloud Computing.
* I have been working as DevOps Engineer for the last 6 years on Cloud Computing such as **AWS** and **Microsoft Cloud**.
* Hands-on experience with DevOps essential tools such as **Docker, Kubernetes, Jenkins, Terraform, Chef, Puppet, Ansible, Bitbucket, Subversion (SVN), GIT, Hudson, Jenkins, Ant, Maven, Microsoft Azure,** and **AWS** cloud platforms.
* Certified as **AWS Solutions Architect**, **AWS Develope**r **Associate, Microsoft fundamentals, Microsoft Associate** with expertise in solution architecting applications, running them in Cloud and designing network configurations and security for applications in the Cloud.
* Experience with Configuration Management/Automation tool **Ansible** and worked on integrating **Ansible YAML Scripts.**
* Experience in writing **Recipes** and **Playbooks** to automate deployment process and integration into **Jenkins jobs** for Continuous Delivery.
* Extensively involved in writing **Infrastructure as a code (IaC)** in **Terraform, Azure resource management (ARM), AWS Cloud Formation (CFT),** and created reusable **Terraform modules**for both Azure and AWS cloud environments.
* Experienced with container-based deployments using **Docker**, working with Docker images, Docker hub, and Docker registries.
* Created and deployed **Kubernetes pod** definitions, tags, labels, multi-pod container replication. Managed multiple **Kubernetes** pod container scaling, and auto-scaling.
* Good experienced with monitoring tools such as **AWS** **Cloud** **Watch**, **Nagios**, **Elasticsearch** **Logstash**/**Fluentd** **Kibana** (**ELK**), **Grafana,** and **DataDog**.
* Experienced in **MAVEN & ANT** as Build Tool for building of deployable artifacts (war, jar) from source code.
* Hands-on experience using **JIRA**, **ServiceNow**, **Confluence**.
* Proficient in AWS Cloud Services such as **IAM, EC2, S3, AMI, VPC, Auto-Scaling, Security Groups, Route53, ELB, EBS, ECR, EMR, RDS, SNS, SQS, DynamoDB, Lambda CloudWatch, CloudFormation, CloudFront, Snowball, and Glacier.**
* Worked on Azure resources such as **AKS**, **ACS**, **VPN**, **Azure** **VM**, **VMNet**, **VMSS**, **Azure** **AD**, **Azure** **Data** **Services**, **Azure** **Storage**, **Azure** **Databases (SQL & CosmosDB**), **Azure** **Backup**, **Azure Site Recovery, Azure Batch, API Management, Azure App Services**.
* In-depth knowledge of **Red Hat Enterprise Linux (RHEL)**, **CentOS**, **Ubuntu** LTS servers.
* Experienced managing release planning and branching strategy of GIT and worked on creating repositories in GITHUB for multiple applications configured GIT repositories in CI setup in Jenkins and Injected **Groovy** scripts in Jenkins for dashboard and customized email triggers.
* Extensively worked on **Jenkins** for continuous integration and for End-to-End automation for all build and deployments by writing **Groovy** scripts.
* Experience in writing **XML, Ant scripts, Shell scripts, Perl scripts, Java scripts, Python, Ruby, Chef, Puppet, Kitchen** scripts to automate the deployments.
* Experience in managing on-premises infrastructure, automating deployment processes, and optimizing system performance.

**TECHNICAL SKILLS**:

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| --- | --- |
| Cloud computing | AWS, Microsoft Azure, Google Cloud Platform |
| Scripting Languages | Python, Perl, Shell, Groovy, Bash, Ruby, YAML |
| Web/Application Servers | Nginx, Web Logic, Apache Tomcat, JBOSS, WebSphere, Jetty, Apache2 |
| Automation Tools | Jenkins, Git LAB, Bamboo, GitOps |
| Networking | DNS, DHCP, TCP/IP, SMTP, LDAP, SAMBA |
| Build Tools | ANT, Maven, Gradle |
| Configuration Tools | Ansible, Chef, Puppet |
| Bug Tracking Tools | Service NOW, JIRA |
| Repository Manager Tools | Nexus, JFrog |
| Operating Systems | RHEL, CentOS, Ubuntu, Windows |
| Databases | MySQL, Oracle, MongoDB, PostgreSQL, DynamoDB, Snowflake |
| Monitoring Tools | Nagios, Cloud Watch, Splunk, Grafana, ELK, Data Dog |
| Version control tools | Git, GitHub, SVN, Bitbucket |
| Virtualization/Container | Docker, Kubernetes |

**CAREER HISTORY:**

**May 2021 – Till Date**

**Client: TetrusCorp Solutions,NJ**

**Role: Lead DevSecOps/Cloud Engineer**

* Managed **IAM** roles, created users, groups for different teams in AWS, enabled MFA for all IAM users.
* Configured AWS **S3** and Nexus with Jenkins for storing and versioning of artifacts.
* Created AMI Backups using AWS Backup
* Created **Load Balancer** sheet to which describes the number of listeners, target groups, targets for a load balancer. Including ports, protocols, site certificates and DNS friendly names.
* Utilized Python **BOTO3** module for automating few application deployments in AWS EC2 instances and backing up EC2 instances using lambda function.
* Build Customized **Amazon Machine Images** (AMIs) & deployed these customized images based on requirements.
* Experiences in Azure Cloud computing and Azure migration.
* Experience in **using ARM templates (JSON)** to create Azure Services.
* Experience implementing Azure Services such as **Azure Active Directory (AD)**, **Azure Functions**, **Azure Resources Manager (ARM)**, **Azure VM**, **Azure Storage** and **Azure Networking.**
* Designed and automated Azure infrastructure as Services (IaaS) and Platform as a Service (PaaS), SaaS capabilities which include virtual machine, container services, virtual network and cloud services.
* Working experience with **Azure Resources Manager** to deploy, update and delete multiple Azure resources, as well as migrating on-premise resources to Azure Cloud.
* Used Azure DevOps Services such as **Azure Repos**, **Azure Board**, and **Azure Test Plans** to plan and collaborate on code development, build and deployed applications.
* Used shared image Gallery to store the created images and build Azure pipelines in Azure DevOps to implement all these services in Azure.
* Worked on Terraform templates also for provisioning virtual networks, **subnet**, **NAT rules**, **storages account** and **azure resources** and **azure function app**.
* I have exposure to provision App Services in Microsoft Azure using **Terraform** with **Cloud Shell**.
* I have the knowledge to deploy the azure resource and azure app with the help of **Terraform**.
* I have configured the Authentication with the help of the Azure function app.
* Configure the CI/CD pipeline setting to integrate various tools to build the IAAS Environment.
* I have experience working on Git Version Controlling with different branches, tags, and mergers.
* I have worked with different stages of deployment, exploring custom build and release task.
* Working as Cloud Administrator on Microsoft Azure Environments, involved in **Azure AD Connect**, **configuring virtual machines**, **storage accounts**, and **Azure Resources groups**.
* Performs automation tasks with the help of **PowerShell** and **Azure CLI**.
* I also work on different SAML applications to enhance their security with the help of PowerShell Script.
* Understanding of the latest security principles, rules, practice, and communications protocol.
* Hands-on experience in creating, deleting, and modifying user accounts, groups, group nesting, and other user management activities in **Microsoft Azure Active Directory**.

**Sep 2020 – Apr 2021**

**Client: EY,Bangalore,India**

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

* Deployed & maintained highly scalable **microservices** architecture for a global e-commerce platform ensuring seamless customer experiences even during peak traffic using **Amazon/Azure Kubernetes services (EKS/AKS)** as a front-end orchestrator for **Docker containers**.
* Managed Kubernetes charts using **Helm** and created reproducible builds of the Kubernetes applications, templatized **Kubernetes manifests**, and provide a set of configuration parameters to customize the deployment and managed releases of Helm packages.
* Managed **Azure Kubernetes Services (AKS)** policies, providing access to different **Azure** resources and developing and improving the workflows that govern access
* **Terraform** was used along with **Packer** to create custom machine images, and once the infrastructure was provided the software dependencies were then installed using **Ansible**.
* Integrated **Ansible** pluginswith **Jenkins** to provide automation, continuous integration & Continuous Deployment (CI/CD) through Jenkins and wrote **Ansible Playbooks** to automate Ansible target nodes using YAML scripting.
* Worked with version control tools such as **GIT** and **Bitbucket**. Comprehensive knowledge of source controller concepts including branches, tags, conflicts, merges, and Branching Strategies.
* Experience with Mobile App IOS & Android CICD process.
* Used GitOps to build development pipelines, code applications, manage configurations, provision Kubernetes clusters, and deploy on Kubernetes or container registries.
* Implemented Large Scale Cloud Infrastructure using AWS resources like - **IAM**, **Elastic IP**, **Elastic Storage**, **Auto Scaling Groups**, **VPC**, **EC2**, **EBS**, **API Gateway, ELB**, **Route53**, **RDS**, **SES**, **SNS**, **SQS**, **EMR**, **RedShift, KMS, S3, LAMDA, Elastic Beanstalk, ECS, Cloud Front**.
* Deployed containerized applications using **AWS Far gate Spot** Type for optimizing cost to application teams.
* Build multi-cloud deployments to **Azure** and **AWS** using a combination of **Terraform** and **Azure Resource Manager (ARM)** templates, CI/CD with Jenkins.
* Written **Groovy scripts** to automate the configuration of Jenkins jobs, including creating new jobs, updating job configurations, and setting job parameters and secrets.
* Written reusable Templates for provisioning AWS using **Terraform** as **(IaC**) to build staging and production environments, and automated end-to-end transit hub connectivity resource deployment in AWS via **Terraform.**
* Built scalable **Docker** infrastructure for Microservices utilizing **Elastic Container Service (ECS)** by creating **Task definitions** JSON file.
* Write **Lambda** functions in python for AWS Lambda and invoked **python** scripts for data transformations and analytics on large data sets in **EMR clusters** and **AWS Kinesis data streams**.
* Write **Python** scripts to totally automate **AWS** services which includes web servers, **ELB**, **Cloud** **Front** distribution, database, **EC2** and database security groups and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Wrote **Ansible Playbooks** with **Python SSH** as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on **AWS** instances using **Python**. Run Ansible Scripts to provision Development servers.
* Used **Python,** to supplement automation provided by **Ansible** and **Terraform** for tasks such as encrypting EBS volumes backing AMIs and scheduling Lambda functions for routine AWS tasks.

**Aug 2017 – Aug 2020**

**Client: Accenture,India**

**Role: DevOps Engineer**

* Deployed containerized applications using **AWS Far gate Spot** Type for optimizing cost to application teams.
* Build multi-cloud deployments to **Azure** and **AWS** using a combination of **Terraform** and **Azure Resource Manager (ARM)** templates, CI/CD with Jenkins.
* Written reusable Templates for provisioning AWS using **Terraform** as **(IaC**) to build staging and production environments, and automated end-to-end transit hub connectivity resource deployment in AWS via **Terraform**.
* Wrote **Docker files** from scratch to build **docker images** and to create **containers** using Docker engine for deploying micro services-oriented environments for scalable applications.
* Wrote **Helm** **charts** from the scratch and performed helm dry runs. Created reproducible builds of the **Kubernetes** **applications**, templatize Kubernetes manifests, designed configuration parameters to customize the deployment and manage the release of **Helm** **packages**.
* Created **Kubernetes** clusters hosted on bare metal and managed them using the Kubernetes command-line interface. Worked with Scheduling, deploying, managing container replicas onto a node using Kubernetes by writing **helm charts**.
* Worked on rolling updates using deployment in **Kubernetes** to implement **Blue/green Deployment, Canary** **Deployment** strategies to maintain less downtime. Using **Ansible** as a Configuration Management, for updating and installing applications in AWS servers.
* Setup **Jenkins** CI-CD pipelines for continuous build & deployment and integrated Junit, Veracode and SonarQube plugins in **Jenkins** for automated testing, Vulnerability Scan and Code quality check.
* Involved in setting up **JIRA** as a defect tracking system and configured various workflows, customizations, and plugins for JIRA bug/issue tracker and used **JIRA** for bug tracking, issue tracking, and project management.
* Involved in testing of services using SOAP/REST services using SOAP UI, groovy script.
* Implemented rolling updates using deployments on AWS Elastic Kubernetes Service (EKS) to reduce downtime during application updates.
* Deployed and managed containerized applications using EKS and ECS on AWS. Deployed multiple services in EKS using helm charts. Configured the RDBMS and NOSQL tools such as MySQL, DB2, PostgreSQL, MongoDB.
* Designed **Continuous** **Integration** (**CI**), **Continuous** **Delivery** (**CD**) pipelines using **Jenkins** andused **Spinnaker** to deploy the changes by writing **groovy scripts** and **shell scripts** and automated daily tasks on multiple environments by triggering the jobs using **webhooks**.
* Created and maintained the **Python** deployment scripts for **Tomcat** web application servers.
* Worked on **Python** scripting to deploy the applications using **Ansible** across Linux servers.
* Used **Python,** to supplement automation provided by **Ansible** and **Terraform** for tasks such as encrypting EBS volumes backing AMIs and scheduling Lambda functions for routine AWS tasks.

**June 2013 – Aug 2017**

**Client: Tecra Systems,India**

**Role: IT Analyst**

* Mainly responsible for keeping the servers up and running as well as providing direct user support for any technical issues related to systems.
* Supported in the efficient daily operation of the computer systems division.
* Monitoring and handling daily jobs that are determined by a system.
* Deployed new equipment and install applications and different software.
* Maintaining and troubleshooting any breakdowns of operations.
* Responding to incoming calls, and mail from internal and external users regarding computer issues and problems.
* Maintaining and supplying inventory by daily checking stock levels to determine the stock level.
* Worked in collaboration with various teams to prepare and configure new servers.
* Keep watch on system security, disk space, and process monitoring.
* Delivered technical support by troubleshooting day-to-day issues with various Servers on different platforms.

**EDUCATION**:

B. Tech

Jawaharlal Nehru Technological University- Kakinada

India-2013