**VINAY BABU P**

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**PROFESSIONAL SUMMARY**

* Around 12 Years of Experience IT in Linux, Windows, and Amazon web services (AWS), Microsoft Azure & GCP.
* Having good exposure and working knowledge in DevOps Tools like GIT/GITHUB, Jenkins, Jira,Ansible,Terraform,Docker,Openshift,SonarQube,Nagios, Nexus&Jfrog Repos,Snowflake,Kibana,ELK,EKS,ECS.
* Led implementation of Office 365 and Azure Active Directory for single sign on, authentication, authorization, and Azure Role-based Access Control (RBAC).
* Expertise in Amazon AWS Cloud Administration which includes services like EC2, S3, Glacier, EBS, ECS, ECR, VPC, ELB, NLB, AMI, SNS, RDS, IAM, Route 53, Autoscaling, Elastic Beanstalk, Lambda, Sagemaker, Snowflake, Elastic search, Cloud Front, Cloud Watch, Cloud Trail, Security Groups etc .
* Having good experience in team management and project management, by handling team size of 20+ members in different projects.
* Hand on working experience in creating users and groups in Azure AD, AWS IAM & GCP IAM and providing permissions to user to access the tools and applications.
* Comprehensive knowledge of Linux operating systems like Red Hat Linux, CentOS, Ubuntu, Debian, Fedora.
* Having good hands-on experience with AWS Lex ChatBot, AWS Polly,AWS Transcribe,AWS connect,AWS Comprehend.
* Database knowledge by using AWS services like RDS RedShift Athena S3 Buckets EBS etc.
* Hands on working experience with log and monitoring tools like DataDog Cloud watch Nagios ELK etc.
* Involved in data analysis like extracting the data from source to target, data ingestion, data cleansing.
* Responsible database for disaster recovery by taking regular backups and storing snapshots.
* Having hands on working experience in Terraform with cloud environment resource in AWS.
* Having knowledge on deployment tool like Red hat OpenShift.
* **Certified AWS (Amazon Web Services) Certified Solution architect – Associate**
* Understanding Cloud Computing Services – IaaS, SaaS, PaaS
* Working experience on AWS Services like EC2, EBS, ALB, S3, VPC, Route53, RDS, RedShift, Cloud watch, Auto scaling, IAM, Code Star, Code Commit, Code Deploy.
* Creating EC2 instances, taking image backup, volume backup.
* Advice suitable EBS volumes depending on Application / Database for cost effective.
* Designing, implementing and supporting fully automated Jenkins CI and CD processes by using Docker container and Kubernetes Cluster in AWS Cloud platform.
* Integrated Jenkins with Version Controlling tools like GIT/GITHUB/GitLab/Bitbucket for build automation.
* Improved team morale by 20% by leading team-building activities, fostering open communication, and promoting a culture of continuous improvement
* Improved team velocity by 35% by implementing Scaled Agile Framework and facilitating the adoption of Agile practices across the development team
* 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.
* Users, File Permissions, ACL, Services & Process administration. Having experience on AWS code deploy, cloud formation, cloud front. Having experience monitoring network, cpu, storage.
* Estimating AWS usage costs and identifying operational cost control mechanisms.
* Having good knowledge in AWS lambda service by using Python Boto3 modules.

**Educational Qualification:**

* MBA (International Business) from JNTU Hyderabad (INDIA) Campus 2011.
* B.Sc. from Andhra University 2008.

**Certification:**

* AWS Solution Architect (Associate)
* Master SQL for Data Science from Udemy
* AI Tools Workshop certification from be10X
* Certified in Microsoft Azure modules from Udemy
* Terraform Automation Implementation certification from Udemy

**Technical Skills:**

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| --- | --- |
| **Amazon Web Services/Cloud** | Ec2 VPC IAM S3 RDS EBS CloudWatch CloudTrail SNS SES SQS EKS ECS ECR Code Commit Code Deploy Code Build ALB etc |
| **Other Cloud Platforms** | Microsoft Azure, Azure DevOps, Google cloud Platform(GCP) |
| **Scripting Languages** | Groovy YAML Python Bash Json |
| **Operating System** | Experienced in working with Linux and Windows 10 environments |
| **IAC Tools** | Terraform Ansible Ansible Tower |
| **Database** | PostgreSQL, MySQL, Snowflake, MariaDB, DynamoDB, Azure Data Bricks, AWS REDSHIFT, AWS GLUE ETL, Athena, Kinesis |
| **Software tools and Utilities** | Version Control: Git,GitLab for efficient code management and collaboration.  CI/CD: Jenkins and Maven for continuous integration and delivery processes.  Configuration Management: Ansible for automating infrastructure configuration.  Containerization: Docker and Kubernetes for container orchestration and deployment.  IT Service Management: ServiceNow for effective incident and change management.  Virtualization: VMware Workstation for creating and managing virtualized environments.  Issue Tracking: JIRA for efficient project management and issue tracking. |
| **Other Tools** | Bitbucket, Confluence, SourceTree, Apache Airflow, OpenShift, ServiceNow, BMC Remedy, Chat GPT (Beginner level) |

**PROFESSIONAL EXPERIENCE:**

**Client: Caterpillar (CAT) (Cognizant) Jersey City, NJ May 2022 –Till date**

**Role: Devops Architect / AWS Solution Architect**

**Responsibilities:**

* Having hands on experience with Azure cloud platform for infra provision to run the application using terraform modules.
* Created customized Azure Resource groups and subscription to deploy the Azure service as per the client requirement.
* Involved in Product management and Sprint planning by using AZURE DEVOPS Dashboards.
* Involved in converting Azure Pipelines into YAML pipelines for implementing CI/CD Strategy and compare the version based on the build history.
* Intergrated Azure Repos with Azure Pipeline framework for continuous CI/CD process.
* Responsible for handing team sprint and scrum calls and allocating user stories to team members.
* Involved in preparing Sprint Data Governance Deck report and taking care of sprint backlogs as per the workload.
* Created Azure resource group as per the project requirement and managed the Azure Active directory to create customized roles and permissions.
* Responsible for managing security within the Snowflake account. Defines and enforces security policies and access controls.
* Scheduled Timestamp cron job by using bash script to manage the Ec2 power cycle as per the requirement's
* Using python boto3 modules and libraries for AWS lambda function to trigger the jobs
* Created private repos and integrated with pipeline workflow by using Azure Devops.
* Created AMIs and used AWS EC2 to build application and database servers.
* Worked on setting up AWS connect contact center for EMEA LATAM APAC regions and taken care for Agent Queues and Routing policy accounts.
* Created customized cloud watch alerts on call count metrics for AWS connect contact center.
* Involved in integrating CRM(Salesforce) domain with AWS connect contact center.
* To maintain the integrity of programmers, work was done on the GIT branching for apps by establishing Release and Development branches.
* Running SQL queries on Snowflake work sheets to identify the Developer Grief and Pipeline failure for data pipelines for different data object.
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managing using Kubernetes.
* Working with data migrations and Data Science task by using AWS Glue Athena Kinesis for data streaming for sources to target.
* Develops ETL pipelines to move data in and out of Snowflake. May work with external data sources and transformation tools.
* Handled Azure repo and Azure Pipelines to run the CI/CD pipelines to move the code from transition to support environment.
* Integrated Jenkins Cloudbees with source GIT repos for Pipeline Builds from one environment to another environment.
* Created EKS cluster to run and deploy the customer application by using CI/CD pipelines using Jenkins.
* Involved in data analysis by removing the unwanted data and updating the database for recovery purpose by taking regular snapshot backups and storing in S3 bucket.
* Responsible for data ingestion, data cleansing and data pulling from source to target by creating AWS Glue jobs by creating event triggers and crawler's.
* Created dashboards in AWS Athena and Kinesis for data flow monitoring purposes to make sure for workflow from source to target and created cloud watch metric alerts for notification services.
* Involved in data cleansing and data collection from various product's and stored in cloud environments and created backups for disaster recovery purpose
* Responsible for handing IAM administration tasks in various phases of project management to allow the user to access the AWS services.
* Led a cross-functional team of developers and designers in delivering a complex software project, exceeding project goals and delivering the product 2 months ahead of schedule. Utilized Scrum methodology and consistently facilitated effective sprint planning and retrospective meetings to drive progress.
* Implemented a continuous improvement program, resulting in a 25% increase in team productivity and a 50% reduction in rework.
* Successfully coached and mentored team members, resulting in a 50% increase in employee engagement and satisfaction.
* Terraform were used to automate the deployment of the cloud in different environments.
* Involved in Sprint and Scrum meetings with team members and Customers.
* Experience working with Configuration Management tools like Ansible & writing Ansible playbooks and developing roles for scalability and reusability.
* Integrated Ansible Automation platform with AWS account to manage and deploy the web services to provision the infrastructure.
* Developed playbooks for provisioning, orchestration, packages, services, configuration, and deployments.
* Worked with SDLC by following Agile methodology and strategy for application delivery
* Involved in provisioning and deploying cloud infrastructure by using IAC tool terraform and store the tfstate backup files in S3 bucket.
* Worked with Developers and Test engineers to collect information for automating the CI/CD process and provide manual judgment steps to deploy to production.
* Created EKS cluster to run and deploy the customer application by using CI/CD pipelines using Jenkins.
* Working with Devops Culture and CI/CD workflow using Jenkins and GIT/Github/GitLab.
* Installed and configured GitLab in different Unix flavors AWS VMS and setting up GitLab Repository for build automations.
* Experienced with Docker container and Dockerhub registry.
* Worked and involved in creating user stories related to the sprint and following up with data designer teams and Engineering team.
* Involved in registering data pipelines to migrate the data from different source to target and clearing notification alerts by using AWS CloudWatch metrics.
* Created functional specification and technical Specification documentation for dataset/data objects for different boards from the customer end.
* Involved in conducting operational issue investigation for pipeline failures and
* Also created BUGS to resolve the issue by interaction with concern teams.
* Daily Standup calls with team members to monitor and update the workflow issues and taking care of data governance by creating reports/dashboards.

**Environment: Apache** Airflow, Microsoft Azure, Azure Devops. Snowflake, Jenkins CI/CD pipelines, Terraform, AWS, EKS, AWS IAM, SourceTree, Git, Bitbucket

**Client: Merck Pharmaceuticals (Cognizant), India December 2021– April 2022**

**Role: Devops Architect / AWS Solution Architect**

**Responsibilities:**

* Working with different Cloud platforms like AWS AZURE & GCP to pull the data from source to target.
* Created GCP service accounts for different IAM permissions to provision the GCP infra by using terraform.
* Involved and managed GCP accounts by handing and creating customized GCP IAM roles and policies.
* Worked with different GCP services like VMs storage networking IAM etc.
* Involved in stakeholder interactions sessions for cost optimization and platform designing decisions.
* Involved in data migration from on-premises to different cloud Source targets as per the client requirement.
* Worked on preparation of dataset YAML FILES for different products as per regions for APAC LATAM EMEA.
* Created CI/CD data pipeline lines by integrating source code repository with Jenkins and created automated triggered jobs.
* Created YAML data object files for parameterized pipelines and monitored the workflow by using Apache Airflow by creating end to end dags
* Writes SQL queries and optimizes them for performance. Focuses on data integration and ETL (Extract, Transform, Load) processes.
* Created OFFLOAD and End to End (E2E) Dag configuration files to run the workflow by using Airflow Tool.
* Integrated and conducted Cloud bees (Jenkins) Data Pipelines for INIT DEV SIT for various product deployment.
* Integrated Ansible with Jenkins CI/CD pipelines to deploy the services in various environments.
* Integrated Git repos with PyCharm to execute and run the code as per the requirements
* Integrated GitLab with Jenkins for build automation process with CI/CD pipelines.
* Worked on Azure Devops Boards to run the team sprint planning and taking care of user stories to the team members.
* Running SQL queries in Snowflake worksheets to identify the developer Grief and Pipeline failures for the data objects for various time stamps.
* Created Snow flake Churn charts by prediction time travel charts for data analysis for different datasets.
* Managed the delivery of a high-visibility, enterprise-level project, successfully delivering it within budget and on time.
* Successfully negotiated and managed project dependencies, resulting in a 20% reduction in project risk.
* Implemented an agile metrics program to measure and improve team performance, resulting in a 15% increase in team efficiency.
* Implemented Terraform automation platform to provision the AWS services and taking tfstate backend files to S3 Buckets.
* Involved in Terraform installation in different Unix and windows flavored OS and integrated with CI tool for build automation.
* Followed guidelines from Federal and HIPAA for Healthcare data security.
* Well organized electronic health records (EHR) by maintained secured data security policy region wise for different Merck Products for LATAM EMEA APAC regions.
* Working with AWS GLUE (ETL) JOBS and migrated data from source to target by using customized Crawlers as per the requirement
* Created different S3 buckets and created customized IAM policies to allow the user to access the data as per the requirement.
* Worked on AWS REDSHIFT CLUSTER and connected to SQL Workbench to test and execute the queries, redesigning and modifying the data.
* Involved in Code stashing by using source tree tools from local to remote repos.
* Running query in AWS Athena from different database for analyzing the data for report generation.
* Attend AWS SME workshop session on AWS services to enhance skills.

**Environment:**  Apache Airflow, Microsoft Azure, Azure Devops. Snowflake, Jenkins CI/CD pipelines, Terraform, AWS, EKS, AWS IAM, SourceTree, Git, BitBucket.

**Client: Actian Cloud (HCL Tech), India April 2020 – November 2021**

**Role: AWS Solution Architect**

**Responsibilities:**

* Working with different Cloud platforms like AWS AZURE & GCP.
* Worked with various Actian products like Avalanche, Ingress, Zen.
* Having good working knowledge with Azure AD, AWS and IAM activities to manage the user accounts by granting required roles and permissions.
* Involved and worked on IAC tool like terraform to build the cloud infrastructure as per the end user or customer requirement in AWS AZURE & GCP.
* Created CI/CD pipeline lines by integrating source code repository with Jenkins and created automated triggered jobs.
* Installed and Configured GitLab on various Linux flavored VMS and settings up repositories for build automation in various environments.
* Configured and integrated Jenkins with GitLab Repos by using webhooks.
* Involved in providing solutions to the customers and end users work with different cloud platforms.
* Involved and prepared SOP for customer purposes.
* Prepared monthly audit report and planned cost optimization.
* Provided infrastructure to the new projects migrated from on prem to Cloud.
* Working closely with customers and end user and provide solutions and required permission to them wherever required based on the use case.
* Managed Jenkins Pipelines and scheduled Pipeline builds as per the required time stamps by executing bash scripts
* Created secured harden images as per CIS benchmark to provide the VMs in AWS AZURE & GCP.
* Created IAM policies and Roles to user as per the requirement to access the service.
* Involved in creating VPC peering connection from one account to another account and created connection between different cloud accounts.
* Created AWS EC2 instances for running and attached various types of EBS volumes.
* Configured Nginx server for reverse proxy to avoid network security conflicts.
* Involved in creating VPC for peering purposes for cross region replications.
* Conducted and attended Knowledge Transfer & Cross Trainings.
* Involved in CI/CD pipelines and Build workflow plans.
* Created AWS RDS instance with MySQL DB machines and deployed data from S3 buckets.
* Worked with Docker images to run multiples services like Nginx etc.
* Involved in storage activities with Azure storage service.

**Environment:** GCP, Actian Cloud, Microsoft Azure, Azure Devops. Snowflake, Jenkins CI/CD pipelines, Terraform, AWS, AWS IAM, SourceTree, Git, Bitbucket.

**Client: Boeing Aviation. (HCL Tech), India December 2019 – March 2020**

**Role: AWS Solution Architect**

**Responsibilities:**

* Involved in automation process by using DevOps tools like Jenkins, Docker, Ansible.
* Suggested various Jenkins plugin to build and deploy the code from host machines by using Jenkins pipelines.
* Created testing landscape to run the environment in on premises by using Oracle Virtual box and created VMs as per the requirement.
* Configured Nginx server for reverse proxy to avoid network security conflicts.
* Created architecture by using NAT network protocols to communicate between the machines from one stage to another.
* Worked on docker files to create and build images and implemented to run Jenkins slave as agent and other dependencies.
* Created shared folders with in the VMs to mount the artifacts and workload activities as per the environment.
* Involved in cloud migration part from on premises landscape.
* Created Ec2 instance to run the applications and services and modified the security groups which acts a firewall.
* Created dedicated VPC to run the services by maintained network security levels.

**Environment:** Jenkins CI/CD pipelines, Oracle VMS, AWS, AWS IAM, SourceTree, Git, Bitbucket.

**Client: Broadcom. (HCL Tech), India August 2019 – November 2019**

**Role** **: AWS Solution Architect**

**Responsibilities:**

* Working on Various Broadcom products and involved in continuous deployment process.
* Created pods on open shift on AWS environment for deploying purpose.
* Involved in creating volumes for various pods as per the requirement.
* Involved in scaling up and scaling down the service while updating the version change for different services.
* Involved in monitoring kibana dashboards to follow the workflow process.
* Creating cluster in open shift to run the services for various deployments.
* Integrated GitHub with Jenkins by auto triggering process.
* Code quality checking by integrating SonarQube with Jenkins by using plugins.

**Environment: Jenkins** CI/CD pipelines, Terraform, AWS, AWS IAM, SourceTree, Git, Bitbucket, Red Hat OpenShift.

**Client: Bank of America (BofA). (HCL Tech), India May 2018 – July 2019**

**Role: Devops Engineer**

**Responsibilities:**

* Create and provide IAM access to the users & manage its policies.
* Created Ec2 instance on different platforms as per the client requirement.
* Involved in the CPU utilization and health checkups task by Amazon Cloud Watch.
* Worked on creating VPC in different zone to connect from one region to another region.
* Integrated GitHub with Jenkins by auto triggering process.
* Code quality checking by integrating SonarQube with Jenkins by using plugins.

**Environment: Jenkins** CI/CD pipelines, AWS, AWS IAM, SourceTree, Git, Bitbucket.

**Client: WPP (James Walter Thomson). (IBM, India) January 2017 – July 2017**

**Role: Technical Service Specialist**

**Responsibilities:**

* Worked as per ITIL Procedure with No breach of SLA
* Involved in 24/7 support for James Walter Thomson across UK.
* Involved in designing and deploying Amazon EC2, Amazon S3,
* Amazon Elastic Load Balancing, Amazon SQS, and other services of the AWS infrastructure.
* Created and maintained Jenkins jobs that execute shell script & custom ansible playbooks.
* Supporting high availability solutions in the cloud environment.
* Integration of SonarQube in the CI pipeline & providing dashboard of Code quality.
* Active Directory integration with cloud services
* Responsible for architecting, designing, implementing and supporting cloud-based infrastructure and its solutions.
* Implemented quality release of software products and solutions for Delivery Manager.
* Guiding to several Development Teams for Code Coverage and Unit Tests, Best Practices to be followed, Analyze applications
* Preparation of plan and issue Matrix for the teams to provide deliverables on time.
* Led efforts to improve communications between customer service and production division. Avoided several potential problems.
* Manage and control statement of work for infrastructure team.
* Involved in road map for the Build and release team for performing the stress and network analysis.
* Using python boto3 libraries for AWS services calls for automation process
* Manage scrum meetings and account for the deliverables in continuous integration effort strictly monitored and managed the SCM audits as well as integration with Workflow and Security.
* Provided exemplary assistance and support to peers and technical team members.
* Automation of regular activities and provide solutions to the cross-company teams for quick resolution of issues.

**Environment: Jenkins** CI/CD pipelines, AWS, AWS IAM, SourceTree, Git, Bitbucket. AWS Load Balancer.

**Client: Fleetcor. (IBM, India) September 2015 – December 2016**

**Role: System Engineer**

**Responsibilities:**

* Setup/Managing Linux Servers on Amazon (EC2, EBS, ELB, SSL, Security Groups, RDS and IAM).
* Creating S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Launching and configuring of Amazon EC2 (AWS) Cloud Servers using AMI's (Linux) and configuring the servers for specified applications.
* Setup/Managing Databases on Amazon RDS. Monitoring servers thorough Amazon CloudWatch, SNS.
* Maintained and configured Web server: Apache and Application servers (Tomcat).
* Providing data for weekly and monthly report to senior management.
* Create and providing IAM access to the users & managing its policies.
* Created and managed CI/CD pipeline for web applications (maven builds) using Jenkins.
* Automate the provisioning of environments using tools like Jenkins, Git, Maven and Ansible.
* Maintain system availability as per Service Level Agreements (SLA).
* Created and managed CI/CD pipeline for web applications (maven builds) using Jenkins.

**Environment: Jenkins** CI/CD pipelines, AWS, AWS IAM, SourceTree, Apache Tomcat Git, Bitbucket. AWS Load Balancer AWS S3 etc

**Client: Fiat Chrysler, (IBM, India) December 2013 – August 2015**

**Role: System Engineer**

**Responsibilities:**

* Work on CR/SR as per user request after approved IT head.
* Day to day Datacenter operations.
* Problem Management and Providing RCA.
* Having good knowledge Windows Active Directory.
* Installation and configuration of Active Directory domain controllers.
* Having good knowledge on O365.
* Perform AD server configuration according to installation check list.
* To perform upgrade of Active Directory environment, apply change management process.
* Manage AD Trust Relationship i.e. Create or remove Trust relationships.
* Strong understanding of configuring and supporting Microsoft Windows OS technology
* Involved in creating new user accounts and handing the P3 & P4 incidents.
* Adding security groups to the user account and giving permissions to folders.
* Installation and administration of latest RPM’s and configuring YUM repositories.
* Including AD Forests, Domains, Trusts, DNS, DHCP, Organizational Units, GPOs, Users & Groups and Computer Management in a Multi Forest, Multi Domain Enterprise environment.
* Kick-start installation of remote Linux servers.

**Environment:** Windows Administration, Office 365. L2 support, change management Server admin.

**Client: Etihad Airways. (IBM, India) January 2012 – November 2013**

**Role: System Engineer**

**Responsibilities:**

* Worked on IAM (Identity and access management) Primary Control.
* Involved in creating new user accounts and handing the P3 & P4 incidents.
* Adding security groups to the user account and giving permissions to folders.
* Modifying the user accounts on Active Directory.
* Worked on folder permission access.
* Creating Distribution list and Shared mailed boxes.
* Creating group policies and managing the policies.
* Involved in giving application access to the user accounts.
* Attending bridge call on with team while resolving issues.
* Resolving incidents as per the SLA.

**Environment:** IAM, Windows Administration, Office 365. L2 support, change management Server admin.