JAKKAM NAVEEN KUMAR

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SUMMARY

- **2.9+** Years of extensive experience in **Webstem Software Solutions Pvt Ltd** as AWS Devops Engineer, AWS Cloud Engineer, Ansible & Python Developer.
- Automated cloud infrastructure using Cloud formation & Terraform.
- Experience in Building, configuring and managing EC2 instances with ansible play books & roles.
- So far have been part of Two AWS cloud transformation projects to host workloads in AWS cloud.
- Have developed applications in AWS end-to-end using various AWS native services like (EC2, EBS, S3, VPC, ELB, Direct Connect, VPN, Route 53 ,lAM, ECS , Directory Service, Cloud Trail, Config, Key Management, Cloud Watch, Redshift, SES, SQS, SNS, API Gateway , cloudfront , Cognito and so on....
- Have implemented Devops frameworks to customersin automating their releases and application monitoring using so many Devops tools.

KEY SKILLS:

Technical Skills	Working Tools
Languages	Ansible, Python, Cloud Formation , Java , terraform and Shell scripting
Monitoring	Dynatrace,Grafana, Kibana and nagios
NON SQL DB's	Elastic search & mango DB
CI-CD Tools	Jenkins Cloudbees & Bamboo
Build Tools	Maven & Npm
Project Management tool	JIRA, Service now and Confluence
Operating Systems	Redhat Linux 7, Unix Solaris11 , Amazon Linux, VMWARE and Windows
Server Administration	Apache2 Severs,Tomcat 6 and 7 servers &Jboss7.
Databases	Oracle 11g ,12C , SQLDB , MySQL& AWSRDS Databases
Containers	Docker and Kubernetes
Cloud	Amazon Web services

Projects Details:

Project 2	TVS Motor Company
Role	AWS DevOps Engineer & AWS Cloud engineer
Client	TVS Motor Company from India
Services offered by client	TVS Motor Company is an Indian multinational automotive company that manufactures motorcycles, scooters, and three-wheelers, headquartered in Chennai, India.
Organization	Webstem Software Solutions Pvt Ltd
Duration	May-2020 to Till Now

Project 1	Heritage Foods
Role	Devops Engineer.
Client	Heritage Foods from India
Services offered by client	Heritage Foods Limited is one of the largest private sector dairy enterprises in Southern India
Organization	Webstem Software Solutions Pvt Ltd
Duration	August-2019 to Apr 2020

Roles and responsibilities(Project Level)

Project 2 :: AWS DevOps Engineer & AWS Cloud engineer.
- Have helped customer to migrate or relocate the resources from Customer on prem Data centers to AWS Cloud using AWS tools like cloud endure and database migration services & data Sync Services
- have helped customer in modernizing the applications using serverless frameworks like AWS Lambda, AWS ECS, EKS & Fargate.
- have helped them in designing secured DevSecOps & AWS CI/CD frameworks using AWS Code Pipeline, AWS Code Build, AWS Code Deploy , AWS Lambda & AWS API Gateways etc.
- have automated environment provisioning using cloud native applications like AWS Cloud Formation , Terraform & AWS Lambda.
- as a AWS devops specialist have created many custom products with AWS service catalog service and added them into portfolios and shared those portfolios for all the accounts under organization.
- Type of Service Catalog products developed are code pipeline, code deploy ,AWS Backup Setup products , Cloud Formation Status Notifications, Detached EBS VolManagement product & Dynamic DNS on EC2 Launch to create record in route53 when new server is launched , cross account patching product , shell script invocation products , ec2 scheduler products, Master Account Baseline templates, Master IAM Template, baseline network account products.
- Setting up resource shares from one account to another account under organization using resource access manager (RAM) service.
- Entire infrastructure of different kind of applications are automated through IAC tools like Cloudformation & terraform and almost each resource in AWS have been automated in Cloud Formation & terraform.
- Have deployed and maintained resources like Elastic Load Balancing, Auto Scaling, SNS, Cloud Watch, EC2, Cloud Front, ACM, WAF, Code Deploy, S3, RDS, IAM, EIP, Lambda, Events, Backup, Cloudtrail , Resource Groups etc. Using Cloud Formation and terraform.
- Have written lambda functions to automate daily tasks like EC2 Start Stop Lambda, list

all unattached volumes,cloudtrialtos3logscopying ,Custom Patch Baseline Lambda, Cross Account EC2 Automation Lambda.

- have written Complex ansible playbooks for configuration management until production environments for functionalities like local user management, SSM installations, tomcat product configurations, Apache product configurations, security product configurations etc.
- Have implemented the best AWS foundation architecture for every new AWS account we onboard by creating master iam roles, creating cis benchmark alarms
  Like No MfaConsole Logins Alarm, No MfaConsole Logins Filter, Root Account Logins Alarm, CIS AWS Foundations Benchmark, IAM Policy Changes Alarm,Cloudtrail Config Changes Alarm,Fail EdConsole Logins Alarm,Disabled Or Deleted Cmks Alarm,S3 Bucket Policy Change Alarm,AWS Config Configuration Change Alarm, Security Group Change Alarm, NACL Change Alarm, Network Gateway Change Alarm,Route Table Change Alarm,VPC Change Alarm, Access Analyz er, Security Hub, Configuration Recorder Lambda functions to block all public access to s3 buckets for any new account, SAML Identity Provider,config , aggregators ,Guard duty , detective , enable encryption for ebs volumes .
- Active directory services for each account is configured through DNS controllers deployed in AWS sharing account and all accounts would connect to it using forwarder rules created in AWS cloud Private hosted zone.
- Hybrid DNS (cloud + on prem) setup is implemented and it would be configured during account onboarding setup.
- As part of foundation design AWS Backup Services are deployed in each account and based on the tags on resources it will take the backup as per the frequencies defined in the triggers.
- VPC Endpoints & Private links are created when ever we need access to internet for AWS services which is not connected to Nat gateway for private AWS Network.
- Subnet Design per VPC segregating them into protected,trusted, semi trusted to deploy different kind workloads into different subnets.
- Tagging AWS workloads as all resources in AWS have been tagged with mandatory keys which helps to maintain AWS resources in better way.
- Monitoring AWS resources with cloud watch and nagios.
- AWS Backup service is enabled in each account for resources like Amazon EBS, Amazon RDS, Amazon Dynamo DB, Amazon EFS, Amazon EC2 etc and Each account will be having its own backup vault and backup plan .
- SSM Session manager is implemented for the users to connect to operating systems and also to apply patches for AWS resources and to run any kind of scripts inside the server.

Project 1 :: Devops Engineer

- Installation and configuration of the chosen tools like elastic search, kibana ,grafana , jenkins , nexus, sonarqube , Atlassian suite tools (Bitbucket , jira , confluence & bamboo products) , docker , kubernetes and all types of server installations.
- setting up the pipelines as per the design using the different type of combinations a per customer licensing.
- Good experience in designing different types of pipelines in jenkins having multiple stages in each pipeline for both Continuous integration & Continuous deployment.
- Integrated all devops tools with elastic search, splunk & syslog logging frameworks for maintaining centralised logging orchestrator framework as part of the best practices of auditing and easier operational maintenance.
- Used languages like Ansible, Python, Cloud Formation and Shell scripting for automating workloads 100% automated based on the application behaviour.
- Have modernized the applications from legacy application models into containers approach using Docker images and helped in designing best orchestration frameworks of docker images using Kubernetes tool.
- Have completely automated the configurations of products like tomcat , httpd , jboss using ansible playbooks

Career History:
- Organization: Webstem Software Solutions Pvt Ltd (July-2019 tilldate)

Education:
- Msc (mathematics) in 2019 at SV University Tirupathi
- Bsc (Computers) in 2017 at Layola college , pullivendula.

Personal Particulars:
- Present Address: Sarjapura, Bangalore.
- Permanent address: Palagiri, veerapunayuni palle, Kadapa, Andhra Pradesh.
- Languages Known: English,Telugu.