**Name:SIVA PASUPULETI**

**Email:sivapasupu@gmx.com**

**Contact:  832 653 0054**

**Visa:h1b**

**Current Location:Houston,Texas**

**Relocation:Open**

**Can join with in 2 weeks notice**

**Employer**

**Vigneshwar**

**IT SYNTAX INC**

**Direct :571-595-3158**

**E-mail:vigneshwar@itsyntax.com**

## SUMMARY:

* Highly Competent Senior Consultant with 15+ years of Experience and with Emphasis in DevOps Methodologies, **SRE** and experience with the latest cloud technologies **GCP**, **Amazon Web services (AWS)** and **AZURE**. Expertise in several areas of Software Configuration Management including development cycles, compilers, Test Automation, server configuration, Scripting, Continuous Integration, Telecom, Product Packaging, Installers, Managing and Release candidates, under a variety of Technologies. **SPECIALTIES**: AWS, GCP, AZURE, Docker, Maven, GIT, SVN, Jenkins, RHEL, Build Automation, .NET, Deployment, Middleware, Automation, Continuous Integration, Continuous Delivery, Pre-flight builds, Configuration Management, Release Automation, Installers, Packaging, Build languages, **Shell scripting, Ruby, PowerShell, Yaml, Python**, Linux, Virtual Machines, Apache, testing, Static Analysis/ Code Coverage Tools.
* Experienced in working on DevOps/Agile Operations process and tools area (Code review, unit Test Automation, Build & Release automation, Environment, Service, Incident and Change Management).
* Used Google Cloud Platform **(GCP**) services like **Compute Engine**, **Cloud Functions**, **Cloud DNS**, **Cloud Storage** and SaaS, PaaS and IaaS concepts of Cloud computing architecture and implementation using GCP.
* Set up GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Experience in designing a **Terraform** and deploying it in **cloud deployment manager** to spin up resources like cloud virtual networks, **Compute Engines** in public and private subnets along with Autoscaler in **Google Cloud Platform**.
* Having Good Experience in Python Scripting in
* Experience in providing highly available and fault tolerant applications utilizing orchestration technologies like **Kubernetes and Apache Mesos** on Google Cloud Platform.
* Worked on AWS Cloud platform’s services which include EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, CloudTrail and CloudFormation AWS configuration, Autoscaling, CloudFront, IAM and S3.
* Expertise in **AWS server** less Compute service Lambda and used AWS lambda to trigger changes in data shifts and action by users and run the code in the Postgres DB.
* Set up multiple Kubernetes clusters running in Amazon Accounts and regions for the MDC-CPAGlobal Platform to accommodate different environments.
* Worked with Terraform Enterprise application to provide Kubernetes clusters and VMs in cloud environment and supplied shell scripts in terraform code to bootstrap Services. Created terraform templates to create resources in multicloud and created pipelines in Jenkins to trigger terraform provisioning.
* Involved in design, implementation and modifying the python code and developed website both front end and backend modules using python Django Web Frameworks.
* Responsible in designing and implementing Azure Cloud Environment and configured shared access signatures (SAS) tokens and storage access policies in cloud infrastructure.
* Expertise in **Azure infrastructure management** (Web Roles, Worker Roles, SQL, Storage, AD Licenses, Office365), Virtual machine backup and recover from a Recovery Services Vault using PowerShell and Portal.
* Worked on **Cloud Architecting** and Implementing Azure Service Offerings such as Azure cloud services, storage, IIS, Active Directory, Resource Management, SQL, VM, VNETS, Network Gateways/Load Balancers, Files and functions, service bus.
* Worked on Software Configuration Management tools like **GIT (GitHub),** Subversion (SVN) and creating GIT repositories with specified branching strategies.
* Expert in User & Plugin for **Jenkins** and Configured Jenkins for Continuous Integration.
* Worked on continuous integration tools Jenkins and Bamboo for end-to-end automation of various build and deployments.
* Extensively worked on creating **Chef Recipes, Chef Roles, Templates, Attributes, Cookbooks** on Workstations/Servers and running recipes on nodes managed by on-premises Chef Server.
* Worked on creating modules and manifests in **Puppet** to obtain Continuous deployment in Development, QA and Production.
* Automated infrastructure provisioning using **Ansible**.
* Created several **Terraform** scripts to build the infrastructure in cloud environment and configured it using Chef Cookbooks.
* Created reusable **Terraform** modules in both GCP and AWS cloud environments.
* Set up End to End **Salt stack** Environment set up, deployed minions and pushing CIS Benchmarks along with Software deployments.
* Experienced working on **Docker hub and Docker swarm**, Docker compose, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Used Kubernetes to deploy scale, load balance, and manage **Docker containers** with multiple names spaced versions using HELMCHARTS experienced in managed Kubernetes such as **Google Kubernetes Engine (GKE),** Azure Kubernetes and AWS Elastic container service.
* Managed Kubernetes, Docker and Collection of services and APIs that deploy, maintain, and monitor Kubernetes clusters in public cloud and on-premises infrastructure.
* Developed **Micro-service Architecture** Application and used Kubernetes, Amazon EKS and Docker-swarm for orchestration.
* Used Kubernetes to deploy Docker containers into Pod Clusters on multiple Nodes in QA, Test and Production Environments.
* Deep knowledge and hands-on experience of **Kubernetes i**ncluding setting up a Kubernetes cluster, managing clusters, creating, and managing pods, deployments, application management, rolling updates, exposing using services & routes, persistent volumes, and persistent volume claims.
* Experience in working with System health & performance of Log monitoring tools like ELK (Elasticsearch, Logstash& Kibana), **Nagios, Splunk** and App Dynamics to monitor logs of applications in prod and non-prod environments.
* Automated Cloud Formation (JSON Scripts) for creating/administrating the instances with Auto Scaling, Elastic Load Balancers across different Availability Zones.
* Extensively experienced in **Bash, PowerShell, Ruby, Python, Yaml** scripting on Linux & Windows.
* Experience in using WebLogic, Apache Tomcat and WebSphere Application servers for deployments.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* Experienced in Linux administration. Good knowledge and understanding of database and application servers’ administration in a global production environment.
* Worked as a part of team in 24x7 production environment and provided on-call day-to-day support.
* Excellent Communication skills, co-ordination and communication with system administrators, business data analysts and development teams.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| Operating Systems | Windows, LINUX, UNIX, RHEL/CENTOS/5.x/6.x/7.x, Solaris, Ubuntu |
| Containerization Tools | Docker, Kubernetes, Openshift |
| Virtualization Platforms | VMware ESX 5.x, Vsphere 6, Vagrant, Virtual Box |
| Configuration Management | Ansible, Chef, Puppet, Terraform |
| CI and Build Tools | Jenkins, Bamboo, ANT, Maven, Gradle |
| Application/Web Servers | Oracle Weblogic Server 11g, Apache Tomcat, Oracle Application Server 10g, BEA Weblogic 8.1/9.2, WebSphere, Jboss, IIS |
| Programming & Scripting Languages | C++, Java/J2EE, Java Frameworks, Dotnet Frameworks, Node.js, JSON, .Net, HTML, PHP, Python, Ruby, Shell scripting, Bash, Perl, PowerShell, Yaml, GO |
| Cloud platforms | AWS, Azure, GCP |
| Logging & Monitoring Tools | ELK, Nagios, New Relic, Splunk, Appdynamics, Kafka, Remedy, Bugzilla, Jira |
| Reporting Tools | Crystal Reports 11, MicroStrategy V10/V9, Power BI, Tableau |
| Databases | DB2, Oracle 10g/11g, SQL, My SQL, NoSQL (Mongo DB, DynamoDB, Cassandra) |
| Version Control Tools | Git, GitHub, TFS, SVN |
| Networking | TCP/IP, FTP, NFS, LDAP, DNS, DHCP, SSH, SAN/NAS |
| Bug Tracking & Testing Tools | Jira, VSTS (Azure DevOps), Bugzilla, Remedy, Selenium, Cucumber, JUunit |

## EDUCATION :

## Bachelor of Engineering, AU, India

## PROFESSIONAL EXPERIENCE

**Client: Hewlett Packard Enterprise (HPE)/Commitpoint**

**Houston,Texas**

**Dec’19 –Till**

**Role:** Sr. Devops/lead SRE GCP Engineer/Architect

**Responsibilities:**

* Extensively worked on creating **Chef Recipes, Chef Roles, Templates, Attributes, Cookbooks** on Workstations and running recipes on nodes managed by on-premises **Chef Server.**
* Exposure of **Chef** supermarket to leverage the existing cookbooks for quick automation of **deployment** and **Infrastructure tasks.**
* Integrated **Chef Automate** with GIT and worked on it for source code management to allow developers to do code review and verify the source

code before submitting.

* Used the **CIS Benchmark profiles** and built hardening cookbooks according to the current CIS trends.
* Worked on setting up a Chef Workstation, bootstrapping various enterprise nodes, and worked with chef Cookbooks, Chef Recipes, Chef Attributes and Template.
* Building Enterprise Infrastructure and applications environment using Saltstack Automating Infrastructure and building a framework for event driven infrastructure Handling configuration management via Saltstack with direct integration with a cloud management platform Scalar along with GitHub integration for pillar and formula versioning Building custom modules for more flexibility for resolving specific business needs with python and Saltstack.
* Developing applications through configuration management tool Saltstack Automating the applications and monitoring the performance of tools within the environment.
* Configuring and installing the Salt stack on all the servers within the domain and upgrading to the latest version according to the requirements.
* Worked on **Google cloud platform (GCP)** services like **compute engine, cloud load balancing cloud storage, cloud SQL, stack driver monitoring** and **cloud deployment manager**.
* Worked on **GKE** Topology Diagram including masters, slave, **Helm, Kubectl, ingress controller GKE** diagram including masters, slave, Helm, Kubectl, ingress controllers.
* Created Projects, VPC's, Subnetwork's, **GKE Clusters** for environment QA, Stage and Prod using Terraform create Projects, VPC's,Subnetwork's, GKE Clusters for environment.
* Worked on Jenkins file with multiple stage like checkout branch, building the application, testing, pushing the image into GCR, Deploying to QA, Stage, Accepting testing and finally deploying to Prod.
* Deployed the Microservices with Spring Boot on **GCP /GKE** Kubernetes Cluster configured with master nodes and worker nodes.
* Configured **GCP GKE ISTIO** to handle the ingress and egress and Service Discovery for microservice PODS inter communication.
* Designed and implemented the GCP organization set up, Project setup, **IAM access and GCP Service account** setup for development, QA and Production support teams.
* Deployed **GKE on GCP** with the help of Gitlab-Jenkins-Terroaform Intergration
* Scripting the code for salt states using python, Unix, Shell, Yaml language in defining the parameters and functions to execute Troubleshooting the connectivity issues between minions and masters by evaluating through custom created scripts.
* Automated various Infrastructure activities like Continuous Deployment, Application Server setup, stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Created inventory in Ansible for automating the continuous deployment and wrote playbooks using YAML scripting.
* Implemented Infrastructure automation through Terraform and Ansible for auto provisioning, code deployments, software installation and configuration updates.
* Implemented Terraform modules for deployment of various applications across multiple cloud providers and managing infrastructure.
* Implemented and enhanced the existing scripts in Ruby and PowerShell.
* Designed and created multiple deployment strategies using CI/CD Pipeline and configuration management tools. Worked with remote execution to ensure zero downtime and shortened automated deployments.
* Deployed applications using Jenkins server and Troubleshooted build and release job failures.
* Managed code releases in the software development cycle using version control tool GIT.
* Exposure to the container experience by working with Docker and Kubernetes.
* Involved in managing Kubernetes manifest files and releases of Helm packages.
* Created Kubernetes cluster with objects like Pods, Deployments, Services, Config Maps using Azure Kubernetes service and deployed multi-container application to the cluster.
* Used Ansible to deploy microservices in Docker containers in Docker machine env's for scalable applications.
* Worked with Cloud Services such as AWS and Azure.
* Develop highly interactive web applications utilizing JavaScript, HTML5, CSS, JSON, ReactJS, and integrating Restful API’s, external web services ensuring high performance on Mobile and Desktop.
* Involved working with High Availability and Disaster Recovery patterns.
* Exposure on Operational Data Visualization, Cyber Security Concepts and Shared infrastructure Resources.

**Environment:** GCP, Ansible, Jenkins, YAML, Terraform, Docker, Kubernetes, HELM, GIT, Microservices, HP Openview, AppDynamics, DevSecOps, Windows/Linux, SAN/NAS, Splunk, Java, API, NAGIOS.

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**Tiffany/Commitpoint NewJersey Aug’17 – Nov’19**

**Azure/Devops Engineer**

**Responsibilities:**

* Performed Configuration of Azure Web Apps, App services, Application insights, Azure DNS, Azure Network Watcher and implementing Azure site recovery, Azure stack, Backup and Automation.
* Experience in configuring **ARM, VM Networking, Private Static IP Address** and **Public IP** address in Azure.
* Created **Virtual Networks** in Azure for **hybrid** connectivity with **On-premise networks** (Express Route, VPN Gateways).
* Worked on **Microsoft Azure** for Development, Test and UAT environments for all customers regardless of final Production platform (**SaaS Cloud, Private secure cloud**) to speed up development/ deployment process and work within **CI/CD framework** (Team City, Octopus Deploy).
* Experience working on **Azure Active Directory** to bring out the reliability and scalability needed to **identity** services that work with **Cloud** and **hybrid** environments.
* Experience in using **ARM templates (JSON**) to create AZURE services, while ensuring no changes were made to the existing infrastructure.
* Experience implementing Azure services such as **Azure Active Directory (AD),Azure Storage, Azure cloud services, IIS, Azure Resource manager(ARM),Azure Blob storage,** Azure VM,SQL Database, Azure Functions, Azure Service Fabric, Azure Service Bus.
* Working knowledge in deploying CI/CD system using Azure Devops on Kubernetes container environment, and for the run time environment of CI/CD system to build, test and Deployment we have utilized Kubernetes and Docker.
* Designed and automated AZURE infrastructure as a **Service (IaaS)** and Platform as a **Service (PaaS),** SaaS capabilities which includes virtual machine, container services, virtual network and cloud services.
* Working experience with **Azure Resource Manager (ARM)** to deploy, update, and delete multiple Azure resources, as well as migrating on-premises resources to Azure with Azure site recovery (ASR), and Azure backups.
* Used Azure Devops services such as Azure Repo, Azure Boards, and Azure test plans work and collaborate on code development, built and deployed application.
* Managing the **Azure Kubernetes Service(AKS)** polices, providing access to different Azure resources and developing and improving the workflow that govern access.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) in to secure VNets and subnets using PowerShell.
* Used **Ansible** to deploy **microservices** in **Docker containers** in **Docker machine env's** for scalable applications.
* Implemented Infrastructure automation through **Terraform** and **Ansible** for auto provisioning, code deployments, software installation and configuration updates.
* Designed and created multiple deployment strategies using **CI/CD Pipeline** and **configuration management** tools.Worked with remote execution to ensure zero downtime and shortened automated deployments.
* Managed **Maven** project dependencies by creating parent-child relationships between projects.
* Configured **Jenkins master** with necessary plugins and slaves to support scalability and agility and configured Jenkins to implement nightly builds on daily basis and generated change log to include daily changes.
* Worked with **Docker Registry** and handled multiple images primarily for **middleware installations** and **domain configurations.**
* Hands-on experience setting up **Kubernetes** (k8s) Clusters for running microservices. Took several microservices into production with **Kubernetes** backed Infrastructure.
* Used **Kubernetes** to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Used **Open Shift** platform in managing Docker Containers and **Kubernetes Clusters** and used **terraform** to deploy.
* Designed and deployed container-based production clusters using **Docker, Kubernetes,** **Docker Swarm, OpenShift.**
* Build, deploy **ASP.NET** web application on using **TFS** Build Automation, Blog Storage and Portal.
* Perform **system administrations** tasks such as installation and configuration of services **Apache,** **PHP, MySQL** and on **Ubuntu servers.**
* Worked with **scrum** and development team in overseeing bug tracking, test prioritization, test automation and releases.
* Hands on experience on working with System health and performance Monitoring Tools **Nagios, Splunk, Cloud Watch, New Relic, Elastic search, Kibana** and **App Dynamics.**

**Environment:** Azure, Jenkins, Chef, Ansible, GIT, Tomcat, Linux, Docker, Kubernetes, Nagios, App Dynamics, Cloud Watch, ELK, Python, PowerShell, Splunk, Shell script, SonarQube, Puppet, VMware.

**Fossil, Richardson, TX**

**Infosys- Full time**

**Aug’15 –Jul’17 Aug’15 –Jul’17**

**AWS/Devops Engineer**

**Responsibilities:**

* Worked as a **Cloud administrator** being responsible for building and configuring a new cloud infrastructure environment, troubleshooting **AWS** related issues and engage internal teams for complex issues.
* Involved in migrating infrastructure & application from on premise to **AWS** & from Cloud to Cloud such as **AWS** to **Azure.**
* Hands-on implementation of the **AWS** Operations dealing with **IAAS infrastructure** (VMs, Virtual Networking, Azure Services, Web Site Deployments) and deploying applications as **PAAS**(Websites, Web Roles and Worker Roles), Implemented New Azure Services like Backup Vaults, Recovery Service Vaults, Operation Management Suites, Cost-Estimation and Efforts.
* Implemented a **'server less'** architecture using **API Gateway,** **Lambda** and **Dynamo DB** & deployed **AWS Lambda code** from **Amazon S3** buckets.
* Planning, deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMware VMs as required in the environment.
* Used security groups, network ACLs, Internet gateways, NAT instances and Route tables to ensure a secure zone for organizations in AWS Public cloud.
* Implemented and maintained Chef Configuration management spanning several environments in VMware and AWS cloud.
* Working on multiple AWS instances, set the security groups, Elastic Load balancer and AMIs, Auto Scaling to design cost effective, fault tolerant and highly available systems.
* Creating public and private subnets within the VPC and attaching them to the EC2 instances based on the requirement.
* Designed AWS Cloud Formation templates to create custom sized VPC, Subnets, NAT to ensure successful deployment of Web Applications and database templates.
* Utilize AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups.
* Worked on **Bash** scripts with **AWS CLI** to gather resources metrics from **AWS EC2** Instances, and configured Alerts and dashboards using **AWS Cloud Watch Monitoring.**
* Hands on experience in building tools such as **MAVEN, ANT** and **Gradle** for the building of deployable such as war, jar and ear from source code and **automated Web** and **J2EE** applications to the above platforms.
* Used **Artifactory** Repository tool for maintaining the **Java** based release code packages.
* Written **bash** scripts to deploy **the Java** based packages like **EAR** and **WAR** on the **WebLogic Application Server.**
* Maintained and tracked inventory using **Jenkins** and set alerts when the servers are full and need attention.
* Worked with the **groovy scripts** in Jenkins to execute jobs for a continuous integration pipeline where **'Groovy Jenkins Plugin'** and **'Groovy Post-Build Action Plugin'** is used as a build step and post build actions.
* Developed utilities in **Shell** and **Python scripting** to automate processes.
* Migrated and maintained build-test Environments into the cloud Infrastructure and implemented a Continuous Delivery process using **Jenkins** across multiple environments.
* Written Templates for AWS infrastructure as a code using **Terraform** to build staging and production environments. Managed different infrastructure resources, like physical machines, VMs and even Docker containers using Terraform.
* Used **Terraform** to deploy the server-less architecture from the existing AWS architecture.

**Environment**: RedHat, Ubuntu, Maven, Splunk, AppDynamics, Nagios, Jenkins, BASH, PowerShell, Groovy Script, JSON, Cookbooks, APACHE/TOMCAT, Python, Chef, Docker, Kubernetes, VMware, JBOSS, Azure, AWS, S3, ELB, IAM, Cloud Watch, ELK, VMware, JBOSS, API Gateways, Lambda, MYSQL, Cronjob.

**Sysco Foods/Infosys**

**India**

**July’11 –July‘15**

**VMware SRM/DR Architect**

**Responsibilities**

* Design and architect VMware SRM solutions based on the organization's business requirements.
* Develop disaster recovery strategies and plans in collaboration with stakeholders.
* Consider factors such as RPO (Recovery Point Objective) and RTO (Recovery Time Objective) in designing the solution.
* Deployed VMware ESXi hosts configured fault tolerant highly available virtual infrastructure as per VMware best Practices.
* Configured VSphere replication appliances at protection and recovery sites.
* Deployed VMware Site Recovery Manager 5.5 and 6.0 to accommodate 2 site bio-directional replication and shared platform service controllers via f5 load balancers.
* Paired sites, configured resource mappings, folder mappings and imported Vlan and port group information to accommodate a multi-site bio directional replication for 2-way shared recovery site protection.
* configure protection groups and recovery plans to include custom recovery options and priority startup sequences.
* created and initiated test recovery plans to validate DT site technical validation.
* Provided report documentation to all DR staff and client-side resources.
* Design, implement, and maintain VMware vSphere virtualization infrastructure, including ESXi hosts, Vcenter Server, and vSAN
* Configure and manage virtual networks, storage, and other virtualization components.
* Monitor and troubleshoot VMware vSphere environment for performance and availability.
* Develop and maintain automation scripts for VMware vSphere environment.

**IBM, India Jul ’08 – Dec’09**

**Windows,SCCM & Linux Admin**

**Responsibilities**

* Performed installation, configuration, upgrades, patching and maintenance of Windows Server Windows NT,2008/2012
* Configured and managed TCP/IP, DHCP, DNS, and Active Directory.
* Created and managed user accounts, permissions, and access rights.
* Provided technical support for the development, implementation, and maintenance of Windows Server-based LANs, WANs, and other data communications systems.
* Developed and implemented secure solutions for system users with GPOs and security policies.
* Monitored and tuned system performance troubleshot system hardware, software, and networking issues.
* Assisted in the design and implementation of system backups, disaster recovery solutions, and server maintenance.
* Provided remote support, resolved incidents and maintained user documentation.
* Developed and maintained scripting to automate system tasks and processes.
* Excellent debugging and problem analysis skills.
* Software patching for workstations and servers with SCCM/WSUS
* Strong experience in OS imaging, MDT, and Task sequence troubleshooting
* Experience in SCCM troubleshooting and maintenance.
* SCCM Health Monitoring.
* Experience in SCCM Power Shell scripting
* Strong in handling maintenance requests such as new version, Upgrade, Patch and Scripts.
* Experience in automated jobs and reports.
* Extensive experience on Onsite/On-Call troubleshooting.
* Strong in validating application functionality for its integration with other windows products.
* Software Package creation and deployment testing.