**KIRANMAI PINGILI**

**DevOps Cloud Engineer   
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**PROFESSIONAL SUMMARY:**

* More than **10** years of experience in the IT industry with a major focus on **Azure**, **AWS, DevOps**, **Linux System Administration** using Cloud Formation templates, Software Configuration, and **Build/Release Management** using tools like **Git, Jenkins, Maven, Ant, Chef, Docker,** etc.
* Experience in **ADLS, Azure Data Factory,** **Azure IaaS**, **PaaS**, **Provisioning VMs**, Virtual Hard disks, **Azure CLI,** **Virtual Networks**, **Azure** **Cosmos DB**, Active Directory, **Azure DevOps ARM** and **Azure cloud app services.**
* Experience in **Azure** Platform Development, **Deployment Concepts**, hosted **Cloud Services**, platform service and close interface with Windows **Azure Multi-factor Authentications** Continuing architectural changes to move software system offerings to a distributed, service-based architecture, utilizing **Docker/ Kubernetes** technologies.
* Knowledge on **Cloud Enterprise Data Warehouse**.
* Working with **GITHUB** Repository for the administration of various organization and repository level roles.
* Experience in the configuration of files and build template deployments using **YAML.**
* Experience in the designing and building **RAML** based **REST API’s** and used the security schemes to secure these **API’s**
* Expertise in Amazon Cloud Services **(AWS EC2, S3, SQS, SNS, RDS, VPC, Subnets, Elastic Bean Stalk, AMI, Auto scaling, Amazon Glacier, Lambda, snapshots, SES, ELB, ECS, Cloud Watch, Sage Maker.**
* Expert level experience in **Infrastructure as Code (IAC)** Automation Tools like **Cloud Formation, Terraform** using **Python SDK**s provided by Cloud providers, etc.
* Experience working with **ADO** and **Azure Boards** for planning and tracking the deployment status.
* Hands on experience working with **Terraform** and creating and deploying **Terraform Modules** for Infrastructure as a Code.
* Experience in designing and architecting **Azure infrastructure** using **Azure Bicep**.
* Translating infrastructure requirements into **Bicep** templates.
* Hands on experience on memory allocations and performance monitoring on **ADO** using Azure dash boards based on the requirements.
* Experience working on **.Net and Angular Development** based on the client requirements.
* Hands-on experience in implementing **Ansible** and **Ansible Tower** as Configuration management tools, to automate repetitive tasks and quickly deploys critical application.
* Experience in designing and implementing **Chef**, including the internal best practices, **cookbooks**, automated **cookbook** **CI** and **CD** system. Made use of **Jenkins** for **Chef** **CI**, and **Rake** for style.
* Skilled in monitoring servers using **Grafana, Prometheus, Dynatrace, Nagios, Splunk, Sumo Logic, ELK, CloudWatch Zabbix,** for **Resource Monitoring,** **Network Monitoring,** and **Log Trace Monitoring**.

**CERTIFICATIONS:**

* **AWS Solutions Architect- Associate**

**TECHNICAL STACK:**

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| --- | --- |
| **Cloud** | AZURE, AWS |
| **Web Servers** | Apache HTTP, Nginx, Apache TOMCAT |
| **Version Control** | GIT/ GIT HUB, VSS, TFS |
| **Configuration Management Tools** | Puppet, Ansible, Chef |
| **Build Tools** | ANT, Maven, Gradle |
| **Container Tools** | Docker, Kubernetes, Docker Swarm |
| **CI/CD Tools** | Jenkins, Hudson, Bamboo, Team city |
| **Bug Tracking Tools** | JIRA, Clear case, Clear Quest |
| **Monitoring Tools** | Grafana, Prometheus, Nagios, Splunk, ELK, Cloud watch, Dynatrace, Aquasec |
| **Database** | My SQL, MS Access, Oracle 9i/10g/11g, DB2, MongoDB, DynamoDB |
| **Scripting** | Bash/Shell, Perl, Python, Ruby, Power shell, Jason, YAML, Groovy |
| **Web Technologies** | HTML, DHTML, XML |
| **Virtualization Tech** | VMware vSphere, ESXi 5.x/4.x, ESX /3.x VMware Workstation, Oracle Virtual box |
| **Application Server** | WebLogic 9.x/10.x, WebSphere 6.x/7.x/8.x/9, JBOSS 4.1, Apache |
| **Operating Systems** | WINDOWS NT/2000/2003/XP/VISTA/7/8/10; Linux (Red Hat 4/5/6/7), UBUNTU, UNIX |
| **IDE Tools** | ECLIPSE IDE, NETBEANS |

**PROFESSIONAL SUMMARY:**

**Client: Fidelity Investments**

**Role: Sr. DevOps Engineer**

**Duration: 10/2021 to PRESENT**

**Responsibilities:**

* Designed, deployed, maintained, and lead the implementation of Cloud solutions using **Microsoft Azure** and underlying technologies.
* Migrating Services from On-premise to **Azure** Cloud Environments. Collaborate with development and QA teams to maintain high-quality deployment.
* Deployed the initial **Azure** components like **Azure Virtual Networks, Azure Service Bus, Azure Application Gateway, Azure Storage** and **Affinity groups.**
* Writing and maintaining **Bicep** templates for various Azure resources and version controlling **Bicep** templates using tools like Git.
* Testing and validating **Bicep** templates for correctness and efficiency.
* Replicate **VMware VMs** to **Azure** with **Site Recovery**.
* Worked on design, implementation and deployment of **CI/CD** pipelines in Azure using **YAML** files and **ARM templates**.
* Collaborating with Software development teams to integrate **Ansible** into **CI/CD** pipelines.
* Developed **Ansible Playbooks** for automating the infrastructure deployment process.
* Worked on Configuration of Internal load balancer, load balanced sets and **Azure Traffic manager.**
* Provisioning servers/instances using **Terraform**. Written **Terraform** code to build Development and Production environment in **Azure Cloud**.
* Involved in setting up **Kubernetes** (**k8s**) clusters for running microservices and implemented a **Kubernetes** Container Orchestration solution within **OpenStack** allowing for easy management, creation & recovery of **OpenStack** assets.
* Worked with **GITHUB** Repository for the administration of various organization level,repository level roles and **Identity Access Management.**
* **ADO** hands on for planning and tracking the entire deployment processes.
* Configured **Kubernetes** Replication controllers to allow multiple pods such as **Jenkins** master server in multiple minions.
* Worked with **Azure Boards** for memory allocation and monitoring.
* Created **Ansible Playbooks** to provision Apache Web servers, Tomcat servers, Nginx, Apache Spark, and other applications.
* Extensively worked on creating Docker files, building the images, running Docker containers, and managing **Dockerized** applications using Docker Cloud. Used **Docker Swarm** for **clustering** and scheduling **Docker containers.**

**Environment**: Azure, OpenStack, Docker, Docker Swarm, Ansible, Chef, MS Share point, YAML, Jenkins, Maven, GIT, Python, Nagios, Instana, Splunk, Dynamo DB, Couchbase, Hadoop, Dynatrace, Jira, Terraform.

**Client: Macy’s**

**Role: Azure Devops Engineer**

**Duration: 05/2019 to 09/2021**

**Responsibilities:**

* Implemented various resources in **Azure** using **Azure Portal, and PowerShell** on **Azure Resource Manager** deployment models. Experience deploying Infrastructure as Code (IaC) applications using ARM Templates (JSON).
* Provided architecture and migration support services to client applications / **Devops** teams within the Organization.
* The Solution Architecture &amp; Migration Team provides architecture and connectivity design, workload optimization, and execution support for migrating applications to **Azure** Cloud.
* leveraging **Platform as a Service (PaaS), Infrastructure as a Service (IaaS),** and **Software as a Service (SaaS)** as offered by partner Cloud Solution Providers **(CSPs) – Azure Cloud.**
* Collaborated with Principal Technical Architects, **DSO teams,** **CSO** and application **SMEs** to identify, compile and analyze data for workload optimization and cloud migration planning.
* Implemented and deployed **RESTFUL** and **SOAP API’s** based on the project requirements.
* Created **Ansible Playbooks** to provision Apache Web servers, Tomcat servers, Nginx, Apache Spark, and other applications.
* Integrating **Azure Bicep templates** using tools like Azure Devops or GitHub actions.
* Integrating **Azure Bicep** templates into **CI/ CD** pipelines.
* Collaborating with Software development teams to integrate **Ansible** into **CI/CD** pipelines.
* Worked with **GSI Vendors** on **automation scripting**, connectivity, and environment configuration tasks as defined in client migration plans necessary to migrate applications to their target state cloud hosting model.
* Worked with the Application team on gathering application-related information On-prem and worked on creating proposed architecture on **ADS (Architectural Design Structure), BE (Budgetary Estimate), and presented to MRB (Modernization Review Board)** in the process of migrating to Azure cloud.

**Environment**: Azure, OpenShift, Kubernetes, Python, Chef, Ansible, Docker, Dynatrace, Docker HUB, Jenkins, Terraform, ELK, CentOS, GIT, Python, My SQL

**Client: Zip Car**

**Role: DevOps Tech Lead**

**Duration: 09/2017 to 04/2019**

**Responsibilities:**

* Leveraged in Azure infrastructure management (Azure **Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD** license). Performed configuration of **Azure web Apps, App services, Application insights, gateway, Azure DNS, Traffic manager, and App services.**
* Expertise in Designing, planning, and implementation for existing on-prem applications to Azure Cloud, Configured and deployed **Azure** **Automation Scripts** utilizing Azure stack.
* Set up CI/CD pipelines for various Web applications and Database projects using **Azure DevOps.**
* Implemented high availability with **Azure Classic** and **Azure Resource Manager** deployment models
* Design, install, administer, and optimize hybrid cloud components to ensure business continuity (**Azure AD, ADFS, SSO & VPN Gateways**.).
* Developed **Ansible Playbooks** for automating the infrastructure deployment process.
* Proficient with container systems like **Docker** and **container orchestration** like **AKS** and**Kubernetes**.
* Managed **Docker orchestration** and **Docker containerization** using **Kubernetes**.
* Used **Kubernetes** to orchestrate the deployment, scaling, and management of **Docker Containers**.

**Environment**: Azure, Linux, Chef, Python, Jenkins, GIT, Vagrant, Nagios, Java, ANT, RHEL 6.7/6.8/7.1/7.2, Bash Scripting, PowerShell, OpenStack, SonarQube, Splunk, Maven, Apache Tomcat.

**Client: Twofour54 (Abu Dhabi)**

**Role: DevOps Engineer**

**Duration: 05/2015 to 08/2017**

**Responsibilities:**

* Managed **Amazon** **Web** **Services** (**AWS**) infrastructure with automation and configuration management tools like **Chef**. Designing cloud-hosted solutions, specific AWS product suite experience.
* Worked on **AWS cloud** to provision new instances, **S3 Storage** Services, AWS **EC2**, Cloud watch services, and **CI/CD** pipeline management through Jenkins and Created **IAM** policies for administration in AWS to assist type applications
* Worked with **Elastic bean stalk** for orchestration of applications using Amazon Service Providers.
* Configuring and Networking of **Virtual Private Cloud** (VPC) **Written Cloud formation templates** and deployed AWS resources using it.
* Configuration of **Ansible** modules for **AWS** cloud deployment.
* Automated deployment using Configuration Management tools like **Chef** to provision **AWS EC2** Instances to enable continuous Deployments.
* Worked on **Docker container snapshots**, removing images and managing **Docker** volumes for branching purposes
* Providing continuous improvement to agile software development teams by working with **Jenkins** under the **CI/CD** pipeline. Integrated Ant, Nexus, Jenkins, SVN, Confluence, and JIRA and Used **Git** with **Jenkins** to integrate to automate the code checkout process.
* Automating various activities using scripting languages like **Perl, Python, Ruby, and PowerShell** based on the requirements

**Environment**: AWS, Linux, Perl, Python, Chef, Puppet, Jenkins, PHP, Ruby, JIRA, YAML, GIT, Vagrant, SVN, Nexus, Nagios, JIRA, ANT, RHEL 6.7/6.8/7.1/7.2, Bash Scripting, PowerShell

**Client: Johnson & Johnson (Visual IT Solutions)**

**Role: Software Engineer**

**Duration: 08/2013 to 05/2015**

**Responsibilities:**

* Set up the **Chef** Infrastructure for the environment for software configurations management and **Chef** servers, **chef** workstations, and **chef** nodes and involved in bootstrapping new infrastructure **chef** nodes.
* Configured applications that run multi-container **Docker** applications by utilizing the Docker-Compose tool which uses a file configured in **YAML** format. Used **Kubernetes** to manage containerized applications using its nodes, config-maps, selector, services, and deployed application containers as **Pods**
* Set up and maintained an automated environment using **Chef** Recipes within the **AWS** environment. Good understanding of **Knife**, **Chef** Bootstrap process, etc.
* Created artifact documents through the source code and internal deployment in the **Nexus** repository. Implemented Disaster recovery project on **AWS** using various **DevOps** automation for **CI/CD**.
* Providing continuous improvement to agile software development teams by working with Jenkins under the **CI/CD** pipeline. Integrated **Ant, Nexus, Jenkins, SVN, Confluence,** and **JIRA**.

**Environment**: AWS, Linux, Perl, Python, Chef, Puppet, Jenkins, PHP, Ruby, YAML, GIT, Vagrant, SVN, Nexus, Nagios, JIRA, Java, ANT, Bash Scripting.

**EDUCATIONAL DETAILS**

* **Bachelor in Electronics and Communication Engineering (ECE)**
  + - **Jawaharlal Nehru Technological University, INDIA**
* **Masters in Embedded Systems**
  + - **Jawaharlal Nehru Technological University, INDIA**