**Pranav K**

**DevOps 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** 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.
* 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**. Experienced in using code repository management tools to track and manage project milestones and issues
* Experience in creating **Docker Containers** leveraging existing Linux containers and AMIs in addition to creating Docker Containers form scratch
* Designed and deployed **Kubernetes** cluster for production **Container orchestration** with multi-AZ and self-healing, deployed with one-click through Terraform and maintained through various Ansible Playbooks
* Experience in **Ansible** setup, managing hosts file, Using **YAML** linter, authoring various playbooks and custom modules with Ansible and Ansible Playbooks to automate in AWS services like Launching **EC2**, Provisioning **IAM**, Configuring **VPC**, **EBS**, Monitoring using **Cloud Watch** and **Cloud Trail**.
* Inside-out knowledge of principles and best practices in Agile & Scrum methodologies
* Implemented automation for deployments by using YAML scripts for massive builds and releases
* Experience with configuring and managing Elastic Load Balancing (ELB) to implement fault tolerance and avoid single point of failure of applications
* Conceptualized builds and release pipelines in VSTS and done deployments using secure endpoint connection for implementing CI/CD
* Experienced on **Azure Databricks** to use custom DNS and configure network security group (NSG) rules to specify egress traffic restrictions
* Skilled in implementing code review tools and processes to improve code quality and identify potential issues early on.
* Expertise on creating Cloud resources as **Infrastructure as a Code** (IAC)
* Built and implemented complete CI stack to migrate from a **puppet** stack in to **Terraform** with **Chef**
* A **highly motivated, productive team player** with expertise in designing, building and supporting IT operations
* Expertise on creating Cloud resources as **Infrastructure as a Code** (IAC)
* Built and implemented complete CI stack to migrate from a **puppet** stack in to **Terraform** with **Chef**
* A **highly motivated, productive team player** with expertise in designing, building and supporting IT operations.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Cloud** | AWS, Azure |
| **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, Aquatec |
| **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 |

**Client: Kroger Cincinnati-Ohio Nov 2021-Present**

**Role: Sr. Azure DevOps Engineer**

**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.
* 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.**
* Used Chef to manage web applications, Config files, Database, Commands, Users and packages
* Implemented a continuous Delivery pipeline with Jenkins, Docker, GitHub and AWS AMIs
* Experienced with our Site Reliability team to identify **root cause** for **issues** reported across the environment and engage
* Researched in design, implementation and modifying the python code
* Implemented automation for deployments by using **YAML** scripts for massive builds and releases
* Managed **Build & Release** operations to Production, Certification and Disaster Recovery environments
* Ensured seamless **migration** of our applications in the datacenter to the cloud by setting up the cloud environment,
* Coordinate and perform **RDS maintenance** upgrades to ensure there is minimum impact to business as part of DB
* Implemented security best practices, including access controls, encryption, and compliance checks, to protect sensitive data within **AEM** and **ACS** platforms.
* Conducted performance tuning and optimization of **AEM** and **ACS** environments, resulting in reduced latency and improved response times.
* Proficient in using code repository management tools to track and manage code documentation and release notes.
* Implemented robust disaster recovery plans and backup strategies to ensure business continuity for AEM and ACS systems.
* Reduced build + deployment times by designing and implementing **Docker** workflow

**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: Edwards Life Sciences Irvine-CA April 2019-Sep 2021**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Created and **maintained continuous integration** (CI) using tools **Jenkins**/**Maven** over diff environments to facilitate an agile development process which is automated and repeatable enabling teams to safely deploy code many times a day while ensuring operational best practices are supported.
* Worked as an SRE, my role is to improve and maintain the web application life cycle from inception to design, deployment, operation and refinement.
* Expertise in Client Side designing and validations using HTML and JAVA script.
* Smoke testing and functional testing to confirm the application consistency across the various browsers.
* Ensure and maintain the reliability, availability (99.999) and performance of application.
* Trouble shoot and performance tuning issues with various deployed applications like **Apache Tomcat**, **NGINIX.**
* Configuring and maintaining **GIT** for version controlling development code for different developer team.
* Maintain automation & network simulators; develop **Python** test scripts, run regression/sanity test release binaries.
* Worked as SRE to make sure environments have proper DR and Fault-tolerance and ensure environment maintain its SLA (99.999).
* Worked with **Terraform** key features such as infrastructure as code, Execution plans resource graphs and change automation.
* Utilized **Ansible** as configuration management tools to deploy consistent infrastructure across multiple environments.
* Configured RDS Instances using **Cloud Formation** and **Terraform** and used **Terraform** to map more complex dependencies and identified network issue.
* Experience in converting existing **AWS** infrastructure to serverless architecture (**AWS** Lambda. Kinesis) deploying.

**Terraform** and **AWS Cloud Formation** templates.

* Experience in **Designing, configuring, automating, and managing** multiple **servers** for different environments over **AWS** using **Ansible** playbooks to support the infrastructure needs of applications.
* Worked in designing and deploying **AWS** solutions using **EC2 instances, EBS, S3, RDS, Elastic Load Balancer** and **Auto scaling groups**.
* Documented standard operating procedures (SOP) for **troubleshooting**, **configuring**, and setting up **virtual servers**.
* Evaluate, Configure, and implement monitoring solutions for application and server monitoring using **New Relic** and **Dynatrace**.
* Performed **EC2 instances** provisioning on **AWS** environment and implemented **security groups, administered VPCs.**
* Configured **AWS** IAM and Security Group in Public and Private Subnets in VPC.
* Build out server automation with Continuous Integration - Continuous Deployment tools like **Jenkins**/**Maven** for deployment and build management system.
* Experience in Converting existing **AWS** Infrastructure to Serverless architecture (**AWS** Lambda, Kinesis), deploying via **Terraform** and **AWS Cloud Formation** templates.
* Integrated **Terraform** into current software release process to help provision **AWS** resources and deployments of artifacts and services.
* Designed **Terraform** templates to create custom sized **VPC**, subnets, **NAT** to ensure successful deployment of Web applications and database templates and migration from traditional to cloud environment.
* Wrote **CI/CD** pipeline in **Groovy** scripts to enable end to end setup of **build & deployment** using **Cloud Bees Jenkins** and Developed an end-to-end **CI/CD Pipelines** in **Jenkins** to retrieve code, perform tests and push build **artifacts** to **Nexus**.
* Implemented a **CI/CD** framework using **Jenkins**, **Maven** & Artifactory in **Linux** environment and Integration of Maven/Nexus, **Jenkins**, **GIT** and JIRA.
* Worked on functions in Lambda that aggregates the data from incoming events and then store result data in Amazon DynamoDB.
* Wrote Terraform templates for AWS infrastructure as a code to build staging, production environments and set up build and auto machine for Jenkins.
* Maintained **Jenkins** continuous integration tool using **shell/Perl** and **ruby** scripts for automating releases to different environments.
* Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building.
* Handling & fixing all Server related issue there by, ensuring maximum availability of servers and its services.
* Provided support for **AWS Cloud** servers environment for project **Code Deployments** and **Oracle DB** installations and maintenance.

**Environment: Ansible**, **AWS**, , New Relic, **Dynatrace**, J Frog, **MAVEN**, Remedy, Jira, MySQL, **Docker**, SonarQube, **GIT**, Stash, Red Hat 6.x,5.x, CentOS 5.x, 6.x, SUSE and Oracle EL v6, Windows 2008and 2012, VMware.

**Client: SMBC Manhattan-NY Oct 2017-Feb 2019**

**Role: Azure/DevOps Engineer**

**Responsibilities:**

* Implemented various resources in **Azure** using **Azure Portal, and PowerShell** on 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 analyse data for workload optimization and cloud migration planning.
* Implemented and deployed **RESTFUL** and **SOAP APIs** based on the project requirements.
* 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.
* Developed scripts for build, deployment, maintenance, and related tasks using **Jenkins**, Docker, Maven, Python.
* Experience with **GIT** to create repositories for multiple projects and create branches based on development model
* Used **Kubernetes** to orchestrate the deployment, scaling, and management of Docker Containers
* Designed, implemented, and maintained solutions for using **Docker**, **Jenkins**, **Git**, and Puppet for **microservices**.
* Implemented automation for deployments by using **YAML** scripts for massive builds and releases
* Implementation and maintaining CI/CD pipeline with **GIT** and **JENKINS**
* Develop automation scripting in python to deploy and manage Java applications across Linux servers
* Experienced with agile methodology in XL deploy and XL release, CI/CD automation from scratch, docker, OpenShift
* Experience with configuring and managing Elastic Load Balancing (**ELB**) to implement fault tolerance and avoid single point of failure of applications
* Skilled in designing and implementing CI/CD pipelines using Jenkins, ensuring smooth and automated software delivery.
* Used C# .Net as the development language, and Oracle as the database server. Wrote code in SQL Programming for database queries.
* Developed python and shell scripts for the automation of the build and release process
* Create **Security Documentation** including requirements definitions, risk assessments, high level and detailed design documents and risk and recommendation documentation
* Leading **Security design** efforts on projects and guide and collaborate with other members of the security team
* Experience in working with an agile development environment

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

**Client: Comcast Hyderabad-IND Sept 2015-Aug 2017**

**Role: Linux System Administrator**

**Responsibilities:**

* Installation, configuration, and upgrade of RHEL 4/5/6 (and some 7), Ubuntu, Oracle Enterprise Linux 5/6/7 operating systems.
* Automated installation of Linux servers using Kickstart and Installation of Solaris using Flash, live upgrades, and Jumpstart Servers.
* Data center migration and consolidation project - worked on migration builds, data-transfer mechanisms (storage-level block copies, VMware clones), etc.
* Implemented VMware design, performing P2P, P2V, and V2P. Migrated Physical Machines to Virtual Machines (P2V) and Virtual Machines to Virtual Machines (V2V) using VMware converter.
* Experienced in supporting Application and Database teams for installation (shell scripting), configuration, migration, and performance troubleshooting.
* Creating and managing file systems, Creating and managing Logical volumes in Linux and VERITAS Volume manager in Solaris & Linux & IBM AIX.
* Worked with a variety of File System management software's such as Veritas Volume Manager, LVM, ZFS, and SVM.
* Setup and improved LSF infrastructure for US and UK sites.
* PXE boot set up for kickstart and building servers, built kickstart servers in DR site - using http method, created documents for building new servers using kickstart.
* Diagnosis and maintenance of hardware issues involving single and multiple point failures.
* Proficient working experience with vendors like HP, Oracle, Dell, Veritas, and RedHat for troubleshooting issues.
* Creating and managing Virtual Machines and Kick Start Templates.
* Developed from the ground up, using native VMWare APIs, a new automated Inventory System for VDI containing detailed real-time information about the desktop, infrastructure, and assigned user, thereby significantly improving billing accuracy, recoveries, asset cleanup, and resource utilization.

**Environment:** RHEL, Ubuntu, Oracle Enterprise Linux5/6/7, API, VMWare, Apache Tomcat, Shell.

**Client: NextEra Hyderabad- IND Aug 2014-july 2015**

**Role: Linux System Admin**

**Responsibilities**:

* Worked on variety of Linux platforms (Ubuntu, Red hat) which includes installation, configuring and maintenance of applications on this environment.
* Performed installation of OS on RHEL 5.3 and 5.2 on VMware ESX 3.5 and ProLiant Blade BL and DL series servers using Kickstart.
* Performed Data Migration from AIX LINUX to Red hat Linux.
* Configured the NFS servers, setting up servers in network environment and configuring FTP/NTP/NIS/ servers, for various departments and clients.
* Created the CRON jobs for file backups.
* Configured and Monitored JBOSS instances.
* Troubleshoot complex issues ranging from system resources to application stack traces.
* Installed, configured and updated LDAP, DNS, DHCP, NFS, NIS+ on Red Hat Linux and IBM AIX servers.
* Involved in support databases and performed MS SQL upgrades running on Windows servers.
* Code compilation and moving to test environment by automated process.
* Installation, configuration and administration of Linux (Red hat, CentOS).
* Remotely copying files using SFTP, FTP, SCP and FileZilla.
* Wrote UNIX shell scripts for automated installations, to extract logs using C, Bash, Perl and Python.
* Set up and configure Network, switches, routers, WAN and Firewall.
* Extensive knowledge of Linux/Windows based system including hardware, software and applications.
* Experience in development with Perl, Python, Power Shell or other scripting languages.
* Project Management for various UNIX/Linux/Windows system integration projects.

**Environment**: RHEL, Solaris, AIX and Windows, Shelliplanet4.1, Python, Perl, Power Shell, BMC Remedy, Sun One6.1, IIS6.0, Windows 2008, Linux, Shell, Oracle 9i.