Praneeth Reddy
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AWS/AZURE DevOps Engineer

PROFESSIONAL SUMMARY:

Overall, 7 years of experience in IT industry in that as a DevOps Engineer having 5 years of professional Experience with Azure and AWS cloud services. 2years of experience Linux admin role.

- Expertise in DevOps tools such as GIT, Jenkins, Maven, Ansible, Chef, Puppet, Docker, Kubernetes, AWS, Azure, and Terraform, Splunk, Nagios.
- Experienced in Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins, TeamCity, and Bamboo.
- Good knowledge on Configuration Management Tools such as Chef, Ansible, Puppet and Automated Linux production server's setup using the chef cookbooks, Ansible playbooks.
- Experience with Docker containerized environment, hosting web servers on containers, building Docker images using Docker.
- Expertise working with Kubernetes to automate deployment, scaling, and management of web Containerized applications.
- Worked on Kubernetes to orchestrate Docker containers of new and existing applications as well as deployment and management of complex run time environment.
- Expertise in administering and automating operations across multiple platforms (UNIX, Linux, Windows, and MAC.
- Proficient in the AWS Cloud platform and its features, which include EC2, VPC, EBS, CloudWatch, Cloud Trail, Cloud Formation, Cloud Front, IAM, S3, Route 53, SNS, SQS.
- Experience in working on Docker and Vagrant for different infrastructure setup and testing of code.
- Worked on shell/python scripts & implemented auto deployment process and reduced the amount of time.
- Experience on Python, Bash/Shell, Ruby, Perl, PowerShell, JSON, YAML and Groovy.
- Knowledge on Java Lambda Expressions to retrieve the data from Collections using Functional Interfaces.
- Proficient in using Unix Commands and utilities to monitor server-side activities and performance.
- Expertise in Architecting and Implementing Azure Service Offering, such as Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
- Hands on experience on Backup and restore Azure services and in Design and configure Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing. Azure cloud services, Blob storage, Active directory, Azure Service Bus, Cosmos DB.
- Expertise in Azure scalability and Azure availability- build VM's availability sets using the Azure portal to provide resiliency for Iaas based solution and Virtual Machine Scale Sets (VMSS) using Azure Resource Manager (ARM) to manage network traffic.
- Experience on Azure Site Recovery and Azure Backup Installed and Configured the Azure Backup agent and virtual machine backup, Enabled Azure Virtual machine backup from the Vault and configured the Azure Site Recovery (ASR).
- Experience in branching, tagging, and maintaining the version across the environments using SCM tools like Subversion (SVN), Git, Bitbucket, and GitHub on UNIX and Windows environment.
- Expertise in working with diverse Database platforms for Installing, Configuring and Managing NoSQL, RDBMS tools like MYSQL, Oracle, DynamoDB, and MongoDB.
- Worked on various network protocols like HTTP, UDP, FTP, TCP/IP, SMTP, SSH, SFTP & DNS and technologies like load balancers (ELB), ACL, Firewalls.
- Experienced with handling production incidents, queries, problems through remedy ticketing system and non - production issues/tasks/incidents through JIRA ticketing system
- Good understanding of web and application servers like Apache Tomcat, WebSphere, Nginx.
- Used build tools like Maven, ANT, and Gradle for the building of deployable artifacts from source code.
- Experience in building and deploying Java & SOA applications and troubleshooting the build and deploy failures.
- Proficient with Terraform Configuration files to spin up the infrastructure very easily and efficiently.

- Managed the deployment of virtual storage, sites, and server's infrastructure to augment clients' datacenters by Agile.
- Experienced using different log monitoring tools like Splunk, Nagios, ELK (Elastic search, Logstash, Kibana) for to see logs information, monitor, get the health & security notifications from nodes.

Certifications:
- Splunk Certified Power User 6.3x
- Splunk Certified User

TECHNICAL SKILLS:

- **Cloud Technologies:** AWS, Azure
- **Build Automation:** Chef, Puppet, Docker, CI/CD, Jenkins, Ansible, Bamboo, Kickstart, Jumpstart, Terraform, Kubernetes, ANT, Maven, SonarQube.
- **Databases:** Dynamo DB, MySQL, RDMS, NoSQL, Cassandra, PostgreSQL, MongoDB, Oracle DB.
- **Scripting Languages:** Ruby, Python, Perl, HTML5, PHP, Bash/shell Scripting, PowerShell Scripting YAML, JSON.
- **Monitoring Tools:** Nagios, Splunk, Elastic Search, ELK, CloudWatch, Dynatrace, Grafana.
- **Operating Systems:** Red Hat Linux 4/5/6/7, CentOS, Fedora, SUSE LINUX, UNIX, Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000/2003/XP/vista/7/8/10, Ubuntu 12/13/14, Sun Solaris 8/9/10/11, HPUX 10.x/11.x
- **Networking:** Load balancers, TCP/IP, HTTP/HTTPS, SNMP, NFS, FTP, SFTP, Telnet, SSH, SSL
- **Versioning Tools/SCM:** GIT, GitHub, Bitbucket, Azure Repos, Subversion.
- **Web/Application servers:** Apache, Tomcat, WebSphere, WebLogic (8,9,10), Nginx.

WORK EXPERIENCE

Role: Cloud Operations Engineer
Client: Office Depot, Boca Raton, Florida
Implementation Partner: HCL Americas
Jan 2023 – Present

Responsibilities:
- Managed project workflows and tasks using Azure Boards for Agile or Scrum methodologies. Created and maintained user stories, tasks, and bugs in Azure Boards.
- Customized and configured Azure Boards to align with the team's specific project management needs. Defined and tracked project milestones, epics, and releases.
- Integrated Azure Boards with Azure Repos for seamless collaboration between development and project management. Tracked work items and linked them to code changes in Azure Repos.
- Integrated Azure Repos with CI/CD pipelines for automated build and release processes. Constructed build triggers and defined build pipelines for continuous integration.
- Implemented security features such as branch protection and secure coding practices. Audited repositories for security vulnerabilities and applied necessary measures.
- Created and managed package feeds in Azure Artifacts to organize and store packages securely. Configured access control for package feeds to restrict or grant permissions based on team roles.
- Integrated Azure Artifacts with CI/CD pipelines to automate the packaging and publishing of artifacts. Ensured that build artifacts are published to the appropriate Azure Artifacts feeds.
- Deploying VM's, Storage, Network through PowerShell Script.
- Creating storage pool and Stripping of Disk of Azure Virtual Machines. Backup, Configure and Restore Azure Virtual Machine using Azure Backup
- Coordinating with Microsoft for increasing subscription limit like- Core limit and Cloud Services. Handling and Resolving Client issues remotely.
- Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.

- Leveraged VNET system routes and underlying route table that holds Local VNet rules, on-premises Rules, Internet rules and IP forwarding as design basis.
- Worked on implementing backup methodologies by PowerShell Scripts for Azure Services like Azure SQL Database, Key Vault, Storage blobs, App services.
- Acted as build and release engineer, deployed the services by VSTS (Azure DevOps) pipeline. Created and Maintained pipelines to manage the IAC for all applications.
- Assigned RBAC roles using Organization Active Directory Confidential and Subscription level to grant access only to required members based on Least Access Privileges (we use CWS groups).
- Worked on GIT to maintain source code in GIT and GitHub repos. Implemented automation for deployments by using YAML scripts for massive builds and releases.

Environment: Microsoft Azure, power shell, Active directory, RabbitMQ, VNET, Microsoft Azure storage, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Repos

Role: Azure/DevOps Engineer
Client: Fidelity, Jacksonville, Florida
May 2018 – Jan 2023

Responsibilities:
- Design, Plan and Migrate deployments of customer on-premises data center/applications to Microsoft Azure.
- Involved with planning, designing, and transforming environments from on-premises to cloud-based Work as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts, resource groups.
- Develop cloud automation tailored to customer's needs Gather, review, and validate network requirements, VNETs, and network security groups and configure network and firewall configurations.
- Worked on Serverless services, created and configured HTTP triggers in the Azure Functions with application insights for monitoring and performing load testing on the application using the Visual Studio Team Services (VSTS) also called as Azure DevOps Services.
- Created Azure automation assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed Azure AD Connect, Configuring Active Directory Federation Services (AD FS) authentication flow, ADFS installation using Azure AD Connect, and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
- Configure Continuous Integration from source control setting up build definition within Visual Studio Team Services (VSTS) and configure Continuous Delivery to automate the deployment of ASP.NET MVC applications to Azure web apps and manage Azure Active Directory, office 365 and applied upgrades on a regular basis.
- Implemented high availability with Azure Classic and Azure Resource Manager deployment models.
- Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
- Designed User Defined Routes with custom route tables for specific cases to force tunneling to the Internet via On-premises network and control use of virtual appliances in the customer's Azure environment.
- Managed IP Forwarding for VMs and role instances acting as virtual appliances.
- Create detailed project plans and present for customer approval configure and deploy Microsoft System Center into the environment
- Troubleshoot VMware ESX, Windows Server, Active Directory, and physical infrastructure issues that may occur.
- Involved in design, implementation and modifying the python code.
- Developed python and shell scripts for automation of build and release process
- Ability to deliver presentations, discuss Microsoft Azure and complimentary products at a solutions level using PowerShell and other scripting languages to complete day to day tasks
- Worked on continuous integration and continuous delivery jobs for several teams in dev and test environments using shell, Groovy.
- Worked on automating cron jobs which aid in scheduling dev, model, and prod jobs and disables the job after execution, as self-service to developers.
- Restricted user access/service accounts access over jobs on Jenkins using Assign and managing roles for security purposes in development and test environments.
- Monitoring and maintaining disk space issues on nodes connected to Jenkins for dev and test environments.
- Implemented RabbitMQ for driving towards better user interactions with our applications as well as between the micro services.
- Generated reports on Jenkins for jobs executed for each channel of business for a period in aiding metrics review.

- Creation of hooks on Bitbucket repositories in aiding to automation of Jenkins jobs.
- Creation of jobs to handle F5 balanced load environments deployments in dev environment.
- Configuring of Fortify Static code analysis on Azure DevOps/Jenkins jobs in dev and test.
- Configuring Azure Key Vault services to development teams for handling secrets in dev, test, and production environments using both UI and CLI in Jenkin jobs.
- Provided high availability for **IaaS VMs** and **PaaS** role instances for access from other services in the VNet with **Azure** Internal Load Balancer. Implemented high availability with **Azure** Classic and **Azure** Resource Manager deployment models.
- Prepared capacity and architecture plan to create the Azure Cloud environment to host migrated IaaS VMs and PaaS role instances for refactored applications and databases.
- Configuring on-prem servers on Jenkins to aid in dev and test deployments for several teams, managing and maintaining credentials on Jenkins.

Environment: Microsoft Azure, power shell, Active directory, RabbitMQ, VNET, Microsoft Azure storage, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Site Recovery, Kubernetes, Python, Ruby, XML, Shell Scripting, PowerShell, JFrog Artificatory, Jenkins, GIT, Jira, GitHub, Ansible, Docker, Window Server, TFS, VSTS, LDAP, Nagios.

Role: AWS/DevOps Engineer
Client: US Steel, Pittsburgh, PA.
Feb 2017 – April 2018

Responsibilities:
- Implement required AWS services to High Performance Computing Experience. Especially, experience in leveraging AWS services including EC2, S3 storage, EFS (Elastic File System), IAM (Identity and Access Management) Cloud Formation, Cloud watch, DynamoDB.
- Automate AWS Backup for applications like Confluence to maintain backup by supported AWS services (EFS, RDS etc.) and migrate Confluence Data from source to destination by using AWS DataSync agent.
- Responsible for administration of GIT version control and Perform activities branching, tagging, backup, restore.
- Automated the process of deployment to Apache Tomcat Application Servers by developing Unix/Python Scripts.
- Worked extensively on AWS broad range of services such as provisioning EC2, VPC, ELB, Security Groups, IAM, EBS, S3, SNS, SQS, Route53, ELB, CloudWatch, Cloud Front, Cloud trial, RDS
- Worked on container-based deployments using the Docker images and Docker registries, pulled the required images from Docker Hub, Nexus. Used Docker to avoid the environment difficulties between Developers and Production.
- Involved in setting CI/CD Pipelines using Jenkins, Maven, Github, Docker, and Nexus.
- Created and developed deployments, namespaces, Pods, Services, Health checks, and persistent volumes etc., for Kubernetes in YAML Language.
- Design and implement the CICD architecture and automation solutions using GITHUB, Bitbucket, Jenkins, Bamboo, and Ansible Tower. Deploying to production environment in AWS using Terraform
- Implemented Fortify and Black Duck Scans for Security and deploying the binary files like zipping, jar, dll's files to JFrog Artifactory using Jenkins, Bamboo
- Automation of Data transfer between on-premises and Cloud platforms leveraging HPC scripts.
- Design and deploy the infrastructure and services for new applications by tools such as SonarQube, Blackduck and Jenkins etc.
- Create testing framework with AWS services like AWS gateway, Dynamo DB, EC2 etc to test different AKANA policies.
- Create Gatling scripts to test different AKANA QOS policies and Performing AKANA end-to-end testing by using Gatling tool.
- Deployed centralize and auto scaling monitoring system for infrastructure using Grafana, Puppet and puppet dB with integration of many custom plugins for real time monitoring.
- Automate SDLS with scripting languages like python, shell, and groovy scripts. System troubleshooting and problem-solving across platform and application domains.

- Work closely with development team by rapidly deploying instances, monitoring operating efficiencies of the platform, and responding as needs arise.
- Used Ansible to deploy ELK for automating continuous deployment (CD) and configured Nodes and deployment failure reporting and working with Site Reliability Engineer to implement Data dog system metrics, analytics
- Accountable for the integration/maintenance/development of application and server monitoring tools (for DevOps) - Nagios, Prometheus, Kibana, Datadog.
- Monitor applications and environment by managing the installation/configuration of Splunk and ELK.

Environment: Git, Black Duck, Bitbucket, Confluence, AKANA, Jenkins Pipeline, Groovy, Ansible, YAML, Docker, MAVEN, AWS, Ec2, EFS, RDS, Route53, Dynamo DB, S3, Cloud Formation, IAM, Sonarqube, Jfrog Artifactory, XML, JSON, Rally, Apache Tomcat, Gatling, Python, Shell.

Role: DevOps Engineer
Client: General Motors, Detroit, MI.
Mar 2016 - Jan 2017

Responsibilities:
- Experience in Software Integration, Configuration, building, automating, managing, and releasing code from one environment to another environment and deploying to servers.
- Worked in AWS environment, instrumental in utilizing Compute Services (EC2, ELB), Storage Services (S3, Glacier, Block Storage, Lifecycle Management policies), CloudFormation, Lambda, VPC, RDS and Cloud Watch.
- Migrated Linux environment to AWS by creating and executing a migration plan, deployed EC2 instances in VPC, configured security groups &NACL's, attached profiles and roles using AWS Cloud Formation templates
- Used Amazon Route53 to manage DNS zones globally & to give public DNS names to ELB's and CloudFront for Content Delivery
- Experience in implementing AWS lambda to run servers without managing them and to trigger run code by S3 and SNS.
- Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with PowerShell to automate routine jobs.
- Developed shell scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
- Created Ansible playbooks to automatically install packages from a repository, to change the configuration of remotely configured machines and to deploy new builds and various automation purpose, file copy, permission changes, configuration changes, path specific folder creation.
- Experience in working in .Net application and branching, Tagging, Release Activities on Version Control Tool like GIT and Subversion (SVN).
- Experience in resolving issues of merge conflicts and develop Custom Scripts to monitor repositories and Server storage.
- Installed Nexus repository tool to maintain the artifacts/dependencies jars.
- Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
- Deploy code updates into test and production environments and work to roll environments forward
- Knowledge of Splunk content development with the ability to create queries and dashboards.
- Worked as a site reliability engineer the main task is to design and implement adaptive remote testing framework for installation and customization of multitenant cloud environments, their integration with distributed data sources.
- Maintained and managed assigned systems, Splunk related issues and administrators.
- Worked with Open Shift platform in managing Docker containers and Kubernetes Clusters.
- Created and maintained the Power Shell scripts and Perl scripts deployment scripts for Tomcat application servers.
- Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments.

- Used Ticketing tool JIRA to track defects and changes for change management, monitoring tools like New Relic and CloudWatch in different work environments in real and container workspace.
- Design enterprise patterns that ate repeatable and consistent with regards to deployment and configuration of their respective systems. Patterns must encompass pre-production testing, performance tuning, technical hand off documentation and environment validation.

Environments: Python, AWS, Ansible, Docker, AWS CLI, Maven, Tomcat, Jenkins, New Relic, Nginix, Python Scripting.

Role: Linux Admin
Client: Riverbed Technologies, San Francisco CA
Feb 2015 -Mar 2016
Responsibilities:
- General Linux administration, operating system, upgrades, security patching, troubleshooting, and ensuring maximum performance and availability.
- Perform daily maintenance tasks on Linux severs, monitoring system access, managing disk space and tuning the system for optimum performance.
- Responsible for writing and modifying scripts for day-to-day administration.
- Installed and configured and administration of RedHat Linux servers and support.
- Responsible for setting up Cron Jobs scripts on production server.
- Monitored system activities like CPU, Memory, Disk and Swap space usage to avoid any performance issues.
- Setup Linux workstations with hardware and software RAID and implement LVM. Configure and maintain clustered RAID subsystems.
- Wrote technical documentation for various projects.
- Performed OS upgrades and patching when required.
- Wrote bash shell scripts to automate various Linux servers.

Environment: Red hat Linux, Shell, Bash, VMWare, Networking.

Education Details:
- Bachelors in Electronics and Communication Engineering JNTU, Hyderabad, India 2012
- Master's in computer science from University of Central Missouri 2014