**PRANAVI**

**DevOps Engineer |** [**pranavireddy646@gmail.com**](mailto:pranavireddy646@gmail.com) **| 937-303-8161**

**PROFESSIONAL SUMMARY:**

* 7+ years of experience in Software Configuration Management (SCM), Version Control, Change, Build and Release management, Linux System Administration,Support and Maintenance in environments like RedHat **Linux, CentOS.**
* Expertise in automating build and deployment processes using **Python** and **Shell Scripts** with focus on **DevOps tools, AWS** and **Azure** Cloud Architecture.
* Experienced in branching, tagging and maintaining the version using SCM tools like **GIT**, **Bitbucket**, Subversion (**SVN**) and **TFS** on Linux and Windows platforms.
* Experience maintaining CI environments with build automation tools like **Jenkins, Bamboo, Urban Code**and **TFS.**
* Experience in developing and maintaining build, deployment scripts for test, staging and production environment using **ANT, Maven and Shell scripts**.
* **Used Jenkins to streamline CI/CD process** to automate Master-Slave configurations using temporary slaves and automate **Terraform** jobs to create infrastructure in **AWS.**
* Experience in working on AWS and its services like **AWS IAM, VPC, EC2, ECS, EBS, RDS, S3, Lambda, ELB, Auto Scaling, Route 53, Cloud Front, Cloud Watch, Cloud Trail, SQS, and SNS and**experienced in Cloud automation using AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security groups.
* Automated the process of installation, configuration of the web application servers like **WebSphere, WebLogic, Apache Tomcat, JBOSS using Ansible, Chef** and **Puppet**.
* To achieve Continuous Delivery goal on high scalable environment, used **Docker**coupled with load-balancing tool **Nginx**.
* Experience in creating **Docker Containers**leveraging existing Linux Containers and AMI's in addition to creating **Docker Containers**from scratch.
* Good experience in **Unix/Linux** system administration, Server Builds, System builds Installations, Upgrades, Migrations and Troubleshooting on REDHAT Linux, CentOS, Ubuntu, Windows, Fedora, Suse and Solaris.
* Experience in installation of Operating Systems, Packages and Patches, maintaining user accounts, Performance tuning, troubleshooting at various levels.
* Expertise in implementation and maintenance of Apache Httpd, SMTP, DHCP, NFS, NIS, NIS+, LDAP, DNS, SAMBA, SQUID, Postfix, Sendmail, FTP, Remote Access, Security Management Security trouble shooting skills with deep understanding of Layer 7 protocols.
* Experienced with best practices of **SCM**in **Agile, scrum, and Waterfall**methodologies.
* Experience in developing **Splunk**queries, dashboards for performance and capacity analysis.
* Installed, Configured, Managed **Monitoring** Tools such as **Splunk, Nagios, iCinga** for Resource, Network and Log Trace Monitoring.
* Experience in dealing with **Azure IaaS** - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, Application Gateways, Auto-Scaling, and Traffic Manager.
* Experience in assigning the **Azure** services on locations specific to integrate with web-apps and key-vaults.
* Experience in migrating on-premises applications to **Azure** and configured **VNETs** and **subnets** as per the project requirement also performed **PowerShell** scripting to do **Patching**, **Imaging**, and **Deployment** in **Azure.**

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | RHEL/Cent OS 5.x/6.x/7, Ubuntu/Debian/Fedora, Sun Solaris 7/8/9/10, Windows Server |
| **Automation/Build/Configuration Tools** | Docker, Kubernetes, Puppet, Terraform, Chef, Ant, Maven, Ansible, Jenkins, Hudson, Nexus |
| **Cloud Platform** | AWS, Azure |
| **Languages** | Shell, Bash, Python scripting, PowerShell, Groovy. |
| **Database** | Oracle, MySQL, SQL Server. |
| **Bug Tracking Tools** | JIRA, Remedy. |
| **Version Control Tools** | GitHub, Subversion, Bitbucket. |
| **Misc** | Team Worker, Excellent Communication, Problem Solving, Organizational skills. |

**PROFESSIONAL EXPERIENCE:**

**AWS / DevOps Engineer**

**American family Insurance, Eden prairie, MN Oct 2019 – Present**

**Responsibilities:**

* Responsible for design and maintenance of the GIT Repositories, views, and the access control strategies.
* Hands on experience in Amazon Web Services AWS provisioning and good knowledge of AWS services like **EC2, S3, Glacier, Bamboo, ELB (Load Balancers), RDS, SNS, SWF and EBS** etc., and **Azure**.
* Created the ANT scripts and extension of existing ANT scripts for deployment of applications to HUDSON.
* Used ANT and MAVEN as a build tools on java projects for the development of build artifacts on the source code.
* Responsible for build and deployment automation using **VM Ware** **ESX, Docker, Kubernetes containers and Chef**.
* Involved in migration from **SVN** to **GIT** repos and worked with Linux sys admins for the same.
* Used Urban code Build and Deploy for **CI/CD** and fast feedback.
* Developed **Linux, UNIX, Perl and Shell Scripts** for manual deployment of the code to various environments.
* Monitoring **- Nagios, artifactory, Custom checks, Zabbix, App Dynamics, Splunk**.
* Hands on experience in monitoring EC2 instances using Nagios.
* Configured Nagios to monitor EC2 Linux instances with **puppet** automation.
* Configured and monitored distributed and multi-platform servers using Nagios.
* Managed the software configurations using Enterprise Chef. Setup the **Chef Workstation, Chef server and chef nodes**.
* Worked on Atlanssian Tools and bootstrapping the nodes. Worked in creating, uploading new cookbooks and recipes.
* Worked on scheduling the Chef Nodes convergence using Linux Cron jobs. Operations - Custom **Shell scripts, Ruby scripts, VM** and Environment management.
* Manage configuration of Web App and Deploy to **AWS cloud server** through Chef.
* Integration of **Maven/Nexus, Jenkins, GIT, Confluence and Jira**.
* Using Jenkins AWS Code Deploy plugin to deploy to **AWS**. Implemented AWS solutions using **EC2, S3, RDS, ECS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.**
* Defining Release Process & Policy for projects early in **SDLC**.
* Created multiple **Ruby, maven, Perl and UNIX shell scripts** for various application level tasks.

***Environment****: Java/J2ee, Subversion, Maven, Selenium, Jenkins, Zabbix, GIT, SVN, Chef, cloud watch, AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), Shell Scripting, Ruby, PUTTY, SOA.*

**Cloud/DevOps Engineer**

**Ares Management LLC, Culver City, CA Dec 2017 – Sept 2019**

**Responsibilities:**

* Created recommendations on how to duplicate a subset of on-premise machines to the **Azure Infrastructure as a Service**(IAAS) offering which will be used for disaster recovery. This analysis included the specifics to synchronize on-premise data with SQL Server and SharePoint instances hosted in VMs.
* Configured Azure Multi-Factor Authentication (MFA) as a part of Azure AD Premium to securely authenticate users and worked on creating custom Azure templates for quick deployments and advanced **PowerShell**scripting. Deployed Azure SQL DB with GEO Replication, Azure SQL DB Sync to standby database in another region & Fail over configuration.
* Worked on **Serverless services**, created and configured **HTTP** Triggers in the **Azure Functions** with application insights for **monitoring** and **performing** load testing on the applications using the **Visual Studio Team Services** (**VSTS)**alsocalled as**Azure DevOps Services**.
* 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 managed **Azure Active Directory**, **Office 365** and applied upgrades on a regular basis.
* Implemented a **CI/CD** pipeline with **Docker**, **Jenkins** (**TFS** Plugin installed), **Team Foundation Server (TFS)**, **GitHub** and **Azure Container Service**, whenever a new **TFS/GitHub branch** gets started, **Jenkins**, our **Continuous Integration (CI)** server, automatically attempts to build a new **Docker container** from it.
* Worked with **Terraform** Templates to automate the Azure Iaas virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* Managed **Azure** Infrastructure **Azure Web Roles**, **Worker Roles**, **VM Role, Azure SQL**, **Azure Storage**, **Azure AD** Licenses, **Virtual Machine Backup** and Recover from a Recovery Services **Vault** using **Azure PowerShell** and **Azure Portal**.
* Written **Templates** for **Azure Infrastructure as code** using **Terraform** to build staging and production environments. Integrated **Azure Log Analytics** with **Azure VMs** for monitoring the **log files**, store them and track metrics and used **Terraform** as a tool, **Managed** different infrastructure resources **Cloud**, **VMware**, and **Docker** containers.
* Worked on **OpenShift** for **container orchestration** with **Kubernetes** container storage, automation to enhance **container** platform multi-tenancy also worked on with **Kubernetes** architecture and design troubleshooting issues and **multi-regional** deployment models and patterns for **large-scale** applications.
* Using **Ansible** created multiple **playbooks** for machine creations and **SQL server, cluster server** and my SQL installations.
* Used **Ansible**to Setup/teardown of **ELK**stack (**Elasticsearch, Log stash, Kibana**) and troubleshoot the build issues with **ELK**and work towards the solution.
* Written **Ansible handlers** with multiple tasks to trigger multiple handlers and to decouple handlers from their names, making it easier to share handlers among Playbooks and Roles.
* Designed, wrote and maintained systems in **Python scripting** for administering **GIT**, by using **Jenkins** as a full cycle **continuous delivery** tool involving package creation, distribution, and deployment onto **Tomcat application** servers via shell scripts embedded into **Jenkins** jobs.
* Maintained **Artifacts** in binary **repositories** using **JFrog** Artifactory and pushed **new Artifacts** by configuring the **Jenkins** project **Jenkins Artifactory plugin**.
* Worked with **Nagios** for **Azure Active Directory** & **LDAP** and Data consolidation for **LDAP users**. **Monitored** system performance using **Nagios**, maintained **Nagios** servers and added new **services & servers**.
* Built and **managed** a highly available **monitoring infrastructure** to monitor different **application servers** like **JBoss, Apache Tomcat** and its components using **Nagios.**

***Environment:****- Azure, PCF, Office 365, Terraform, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Site Recovery, Kubernetes, Python, Ruby, XML, Shell Scripting, PowerShell, Nexus, JFrog Artifactory, Jenkins, Git, Jira, GitHub, Ansible, Docker, Windows Server, TFS, VSTS, LDAP, Nagios.*

**DevOps/ Kubernetes-Docker Engineer**

**PNC Bank, Pittsburgh, PA April 2015 - Nov 2017**

**Responsibilities:**

* Implemented a production ready, load balanced, highly available**, fault tolerant Kubernetes**infrastructure.
* Containerized all the Ticketing related applications – **Spring Boot Java and Node Js**applications using Docker.
* Create required components to enable a private, internal only cloud infrastructure
* Created dynamic routing/load balancing capability enabling large application scaling, used ingress rules and **Ingress Controllers- Traefik**and **Nginx.**
* Created a Continuous Delivery process to include support building of Docker Images and publish into a private repository- Nexus v3.
* Managed **Kubernetes**charts using Helm. Created reproducible builds of the **Kubernetes**applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Created required components to enable a private, internal only cloud infrastructure.
* Developed, maintained, and enhanced pre and post build scripts **(Shell and Python)**
* Designed and documented **CI/CD**tools configuration management.
* Created a **Continuous Delivery**process to include support building of Docker Images and publish into a private repository- **Nexus v3.**
* Installed and configured Nexus repository manager for sharing artifacts between internal teams and created proxy Nexus repositories to speed up the build process.
* Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing **Docker images to the Nexus repository.**
* Orchestrated **CI/CD**processes by responding to Git triggers, human input, and dependency chains and environment setup.
* Used **CI/CD tools Jenkins, Git/Gitlabs,**Jira and Docker registry/daemon for configuration management and automation using **Ansible**.
* Created **Containers in Docker**.
* Automated and updated the security groups to allow only the specific CIDRs. In addition to that, automated Iptables with puppet config.
* Containerized all the Ticketing related applications- **Spring Boot Java and Node Js**applications using Docker.
* Used **Spinnaker and Artifactory**for pen source, multi-cloud continuous delivery platform for releasing software changes with high velocity and confidence
* Created monitoring capabilities for all pieces of the infrastructure.
* Installed and configured **Nexus**repository manager for sharing artifacts between internal teams and created proxy **Nexus**repositories to speed up the build process.
* Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing **Docker**images to the Nexus repository.
* Created views to show health and performance of the infrastructure, containers, and the applications.
* Trained staff on effective use of **Jenkins, Docker, GitLab and Kubernetes**
* Trained staff on **Kubernetes**administration.
* Implemented continuous delivery framework using **Jenkins, Maven**on multiple environments.
* Provided guidance to development regarding effective microservice architectures

***Environment: -*** *GitLab, Jenkins, Kubernetes, Docker, Jira, Unix/Linux CentOS 7, Nexus v3, Bash Shell Script, Python, Node.js, Apache Tomcat, MongoDB, SQL, Spinnaker, Artifactory, Traefik, Nginx.*

**Linux Administrator**

**CMC Ltd, Hyderabad, India May 2013 - Feb 2015**

**Responsibilities:**

* Responsible for installing and configuring **CentOS** and **Solaris** platforms.
* Responsible for software configuration management using **SVN, Hudson** and **JIRA** tools
* Worked on logical volume management (LVM) by adding external disks from **SAN** storage.
* Responsible for User and Group Management
* Responsible for providing Privileged Password Management access to accounts in Solaris 10, Linux and windows servers.
* Installed and configured subversion on both Linux and windows platforms.
* Managed all the **subversion** repositories for branching and tagging.
* Worked closely with Project Managers, Developers and QA Analysts to ensure successful software build and deployment for test, staging and production environment.
* Developed shell scripts for automating various tasks (logs cleaning, backup applications, backup database files)
* Managing **UNIX** Infrastructure and **EMC storage** involving maintenance of the servers and troubleshooting problems in the environment.
* Worked on different VMware products like **VMware workstation, GSX/VMware server, VMware player, and VMware Converter and ESX server 3.X.**
* Monitor progression of releases and keep them on track for delivery on planned release date
* Deployed the **EAR** and **WAR**archives into **WebLogic** and **Apache Servers**.
* Resolved update, merge and password authentication issues in **Bamboo** and **JIRA**.
* Troubleshooting issues riced during the build and deployment process.
* Worked on creating scripts for deleting the old deployed code and deploy the newly built code on application servers **Tomcat** and **Web Sphere**.

***Environment:*** *CentOS, Solaris, Subversion, Bamboo, JIRA, Web Sphere, Tomcat, SAN, Bash Shell scripting, Java.*