

VIJAY KANKANALA

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Summary

- Experienced in deployment and managing of production environments in cloud, on prem using several cloud technologies
- Handled automated production deployments using chef, puppet, docker, AWS
- resources Setting up CI-CD Build Pipelines and Release processes for applications
- Supported monthly Releases and took care of the Pre-Release and Post Release activities and documented the instructions for the production release

Education and Training

Masters, Engineering Technology
Pittsburg State University — Kansas
Engineering Technology 3.64

Dec 2011

Skills

Operating Systems	Linux (Red hat, Amazon Linux, Ubuntu, SUSE), UNIX, Windows. MacOS
Programming Languages	Bash, PowerShell, Java, Ruby, Python, HTML, JavaScript, Groovy
Databases	MS SQL SERVER, Oracle 9, 10g, MySQL, SQLite, Cassandra, MongoDB, AWS RDS
Cluster Tools	Veritas Cluster Server (VCS), Microsoft Cluster Server (MSCS) Veritas Volume Replicator (VVR)
CI/CD	Jenkins, Chef, Puppet, Ansible, uDeploy, JIRA, Nexus, Artifactory, Confluence, Docker, GitHub, Git, VSCode, AWS (Ec2, S3, CloudFormation, CloudWatch, IAM, CloudTrail, VPC, ELB), Cloud Foundry, Splunk
Webservers	Zabbix, VersionOne, AppDynamics, Nagios, BMC

Experience

DevOps Engineer
CoreLogic – Dallas TX

Feb 2018 to Current

- CI-CD Support for various application teams using git repositories created Build Workflows using Jenkins and Nexus repositories and helped in defining Branching strategies for Java and JBoss projects
- Maintaining the infrastructure in AWS and Creating required Applications and Services in Pivotal Cloud Foundry
- Setting up monitoring tools Dynatrace and Datadog for various applications.
- Using Log filters and log forwarders in PCF across different platforms and developed Ansible playbooks for automated deployments and developed the required Jenkins jobs
- Working closely with the Dev teams to develop and fix the issues they face on a daily basis with infrastructure and automation issues with CI-CD
- Identifying, giving suggestions and applying the process simplification procedures to improve automation in Non-Prod and Prod environments ensuring the apps are scalable and resizing the applications wherever necessary
- Configuring and creating Jenkins jobs which helps in automation and testing and deploying to different environments and help troubleshoot issues with these jobs

- Experience writing angular.js code for developing Single page applications (SPA), used several in built language core directives, expressions and modules.
- Extensive experience with AngularJS, creating custom directives, decorators, and services to interface with both restful and legacy network services also DOM applications
- Developing the GUI, Spring MVC and Entity framework; Leading multiple modeling, simulations and analysis efforts to uncover the best Java-based solutions
- Developing J2EE design patterns; Developing UML class diagrams and sequence diagrams
- Enhancing the front-end of the application using JavaScript, JSON, HTML, CSS, Ajax and jQuery
- Creating and consuming Web Services, such as XML/XSD and SOAP
- Developing and implementing test validations of the applications using JUnit
- Analyzing test results and recommending modifications to the applications to meet project specifications
- Participating in the deployment of the applications into existing systems and databases using Maven and Jenkins
- Maintaining version control using Git
- Identifying process simplification opportunities for overall reporting environments
- Working with operational reporting team members and other business partners to automate and/or simplify existing processes while ensuring data quality and consistency
- Being technical resource for direct communications to the team members in the program development, testing and implementation process; Documenting modifications and enhancements made to the applications, systems and databases as required by the project.

DevOps Engineer

Aug 2015 to Jan 2018

Capital One — Plano, TX

- Worked on automation and Continuous Integration and Continuous Deployment processes with Jenkins, Chef, Docker, Nexus/Artifactory
- Created and maintained build and release processes for application configuration to comply with developer's requirements and Industry best practices.
- CI-CD Support for various application teams using git repositories created Build Workflows using Jenkins and Nexus repositories and helped in defining Branching strategies for Java and JBoss based projects including NodeJS, AngularJS and AJAX.
- Maintained Linux and Windows Jenkins slaves and configured the build jobs for different application teams.
- Troubleshoot Continuous integration and automated deployment and management using Jenkins, Chef, Maven, Ant, Docker, or comparable tools
- Using a system account, set a unique process up to upload and maintain nexus DEV, QA and Release groups with Group Artifact Version as identifiers using MAVEN and Jenkins.
- Migrated Legacy application code repositories in SVN to GitHub.
- Initiated and Administered the GitHub Repository creations under Organizations and maintained the access to the repos for master develop and release branches
- Used to support monthly production releases and take care of the code merges from release branch to develop and master branches in GitHub
- Configured GitHub Pull Request build jobs in Jenkins and made sure it passes the Unit tests in SONAR, a SNAPSHOT version if the build is created for each build
- Configured and maintained the non-prod and prod environments in AWS using CloudFormation templates and applied security patching for the environment
- Troubleshooting the applications at various levels – Deployment, Load Testing, Performance analysis and scalability in Non-prod environments
- Creating CloudWatch alerts for instances and using them in Autoscaling launch configurations.
- Managing Amazon Web Services (AWS) instances and On-Prem infrastructure with automation and configuration management tools like Chef and custom-built PowerShell scripts
- Worked on monitoring tools like Nagios and Zabbix and configured Splunk logging for application monitoring in AWS environments and created user specific dashboards for
- Splunk Bootstrapping instances to Chef Server and integrating with auto scaling.
- Created new Chef Cookbooks and updated existing ones to automate deployments to Non-Prod and Prod environments -- maintained web servers and app servers separately

- Created and maintained Windows IIS App pools and configured them through chef cookbooks
- Defined chef attributes and roles and environments based on different Non-Prod environments and configured the version that needs to be deployed into the environments
- Worked on PowerShell scripting and used them to integrate in chef and passed attributes to the PowerShell
- Launching Auto Scaling Groups and Elastic Load Balancers and app instances and web instances using Cloud Formation, assigned them to specific IAM roles and s3 buckets to pull static files for applications
- Maintaining Code base for the applications and defining the release approach to deploy in Non-Prod environments
- Rehydrating AMI's of all the servers to the latest release every 60 days in both Non-Prod and Prod
- Experience in analyzing and monitor performance bottlenecks and key metrics to optimize software and system performance.
- Dynamically add and remove servers from AWS production environment.
- Automating backups by shell for Linux to transfer data in S3 buckets.

Devops Engineer

Feb 2015 to Aug 2015

Comcast — Philadelphia, PA

- UNIX/LINUX System and Network administration in Oracle Enterprise Linux 6.4 (RedHat 3/4/5 & SUSE 9/10/11) including design, engineering and building servers (Open Stack).
- Creating and managing Security Groups, using Elastic Cloud.
- Designed and implemented Monitoring tools like Icinga, Hostmon for Metrics and Nagios for cluster monitoring and host-based monitoring.
- Implementing Puppet 3.4.3 and building Hieradata architecture which differentiates between db,sql servers and application servers automatically based on hostname.
- Worked in Implementation of XFINITY TV and HOME SECURITY APPs which had involved Video OnDemand Streaming [VOD] using Android and iOS Applications.
- Automated Deployments using Anthill.
- Building and monitoring applications using Jenkins.
- Supported Apache and Tomcat applications running on Linux and Unix servers.
- Support of Applications running on Linux machines for multiple clients.
- Installation, configuration and administration of Linux (Red Hat, Centos), Sun Solaris and HP-UX Servers.
- Experience with accessing Git and swagit SCM tools.
- Experience with analysis of logs and performing root cause analysis for various issues coming up on daily basis.
- Monitoring Live Traffic, Logs, Memory utilization, Disk utilization and various other factors which are important for deployment.
- Ensure Connectivity for various services and maintaining security to those backend services.

Devops Engineer

Mar 2014 to Feb 2015

Charter Communications — Denver, CO

- UNIX/LINUX System and Network administration in Oracle Enterprise Linux 6.4 (RedHat 3/4/5 & SUSE 9/10/11) including design, engineering and building servers (AWS).
- Creating and managing Security Groups, using RDS (MySQL & Cassandra DB's).
- Designed and implemented Monitoring tools like Cloud Watch in AWS and Nagios for cluster monitoring.
- Worked in Implementation of Charter TV Application which had involved Video OnDemand Streaming [VOD] using Android and iOS Applications.
- Responsible for maintaining 4-5 Different Testing/QA Environments and erection of the PROD Environment in AWS.
- Automated Deployments using Auto-scaling Groups and Asgard [Netflix Open Source Tools].
- Supported Apache and Tomcat applications running on Linux and Unix servers.
- Support of Applications running on Linux machines for multiple clients.
- Installation, configuration and administration of Linux (Red Hat, Centos), Sun Solaris and HP-UX Servers.
- Storage Provisioning, Volume and File system Management using LVM/Veritas on HP-UX/Linux/Sun Solaris OS in a SAN environment.
- Worked on developing scripts (bash and shell) to get the health checks of the application.

- Experience with accessing git and swagit SCM tools.
- Experience with analysis of logs and performing root cause analysis for various issues coming up on daily basis.
- Monitoring Live Traffic, logs, Memory utilization, Disk utilization and various other factors which are important for deployment.
- Ensure Connectivity for various services and maintaining security to those backend services.

Devops Engineer

Jun 2013 to Feb 2014

Apple – Sunnyvale, CA

- UNIX/LINUX System and Network administration in Oracle Enterprise Linux 6.4 (RedHat 3/4/5 & SUSE 9/10/11) including design, engineering and building servers. Experience supporting Java applications like WebLogic and JBoss running on OEL.
- Experience installing and managing different automation and monitoring tools on Red hat Linux like Nagios, Splunk and Puppet.
- Worked with Jenkins an open source tool used for Configuration Integration and built and managed various jobs to manage and maintain consistency in the environments.
- Setting up the environment with Tomcat/Apache, configuring the setup with virtual load balancer for customer application.
- Worked on developing scripts (bash and shell) to get the health checks of the application in a particular environment and to clear unwanted/unused old logs with respect to disk space and time.
- Worked with creating various modules and manifests in Puppet to obtain continuous deployment into different Development, QA and Production environments. Configured and used mCollective tool to orchestrate required puppet commands to the required environments and worked in developing user and environment specific orchestration (Make a puppet command run in all the required environment and return a value to centralized mCollective server).
- Built separate manifests for spec tests and puppet unit tests to give user more control over the errors occurring during deployment.
- Experience with accessing git and swagit scm tools.
- Experience with analysis of logs and performing root cause analysis for various issues coming up on daily basis.
- Monitoring Live Traffic, logs, Memory utilization, Disk utilization and various other factors which are important for deployment.
- Experience in 24X7 Production Support and managing Akamai.

Unix/Linux Systems Administrator

Jan 2012 to May 2013

Atos – Irving, TX

- UNIX/LINUX System and Network administration in Sun Solaris (9/10,11), HP-UX (10.x,11.x Linux (RedHat 3/4/5 & SUSE 9/10/11) including design, engineering and building servers as per requirement.
- Storage Provisioning, Volume and Filesystem Management using LVM, Veritas Volume Manager and Veritas Filesystem (Veritas Storage Foundation), Configuring ZFS file systems.
- Experience supporting Java applications like WebLogic and JBoss running on Red hat Linux and Solaris.
- Clustering solutions for High Availability using tools such as Veritas Cluster Server (VCS), MSCS, RHCS.
- Configuring and maintaining virtual server environment using VMWARE ESX, vCenter, vSphere, and Solaris 10 Zones.
- Installation and Configuration of Sun Enterprise Servers, HP and IBM Blade Servers, HP 9000, RS 6000, IBM pSeries.
- Configured Enterprise UNIX/LINUX systems in heterogenous environment (Linux (Red hat &SUSE), Solaris, HP-UX) with SAN/NAS infrastructure across multiple sites on mission business critical systems.
- Setup, Implementation, Configuration, documentation of Backup/Restore solutions for Disaster/Business Recovery of clients using OMNIBACK on UNIX and SUSE & Red hat Linux platform.
- Involved in supporting different HW ranging from Rack to Blade and also supported Vblock HW to run ESX environment.

- Working Experience with IPTables and Satellite for networking purposes and control number of Disks in clusters.
- Performed quarterly patching of Linux, AIX, Solaris and HP-UX servers on regular schedule. Involved in up Network/SAN based ignite images for HP-UX PA RISC and integrity servers. Good knowledge of RAID groups and setting up NFS, CIFS and iSCSI protocols in SAN/NAS environment on HP-UX 11.23/11.31 and Red hat enterprise LINUX.
- Experience installing and managing different automation and monitoring tools on Red hat Linux like Nagios, Splunk and Puppet.
- Implementation of oracle RAC 10g on HP-UX blades and Itanium servers with Red hat Linux RHEL 4.0/5.0 along with SAN storage on EVAs.
- Implemented and support HP-UX Service guard on Linux servers.
- Involved and set up migration for UNIX/Linux server and SAN storage between data centers and also application migration and testing.
- This included SAN/Application migration and testing various functionalities of key applications. Installing, setup of ProLiant blade BL, DL series with fiber channel connectivity, Cisco GESM interconnect switch, configuring the connectivity, setting up JBOSS cluster, setting up oracle 10g cluster, configuring load-balancing on apache, on Redhat Linux 4.0/5.0 Setting up NIS/NFS on RedHat servers.
- Setting up JBoss cluster and configuring apache with JBoss on RedHat Linux.
- Proxy serving with Apache.
- Troubleshooting Apache with JBoss and Mod_jk troubleshooting for the clients.