**AVINASH VANGARI**

**Sr. DevOps Automation Engineer/ Build & Release Engineer**

**● Release Engineer ● Software Configuration Management ● CI/CD**

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**Professional Summary:**

* **8 years** of extensive IT industry experience with primary expertise in Build and Deployment, SCM and Java Development.
* Strong knowledge of Software Development Life Cycle, SCM practices along with software Build and Release Management methodologies.
* Extensive experience in the design and implementation of Continuous Integration, Continuous Delivery, Continuous Deployment and **DevOps** processes for **agile** projects.
* Experience in branching, tagging and maintaining the version across the environments using SCM tools like **Subversion** (SVN), **CVS** and **GIT**on UNIX and windows environment.
* Knowledge of **Chef** as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
* Worked on**Puppet** manifests files for all applications to manage the configuration files and to manage them as services
* Installed, configured and administered Continuous Integration tools such as **Docker** and **Puppet** for automated builds.
* Created **Chef** Automation tools and builds, and do an overall process improvement to any manual processes.
* Assisted in planning and development of single-click application stacks in **AWS** Cloud Formation and **AWS** EC2.
* Experience of working with the release and deployment in **Java/J2EE** Web applications environment
* Experience with build tools **Ant** and **Maven** for writing build**.**xmls and pom**.**xmls respectively.
* Worked on using **Docker** in Environment variables, Configuration files, Option types and Strings & integers.
* Experience in using **Nexus** and **Artifactory** Repository Managers for Maven builds.
* Migrated corporate Linux servers from physical servers to Amazon **AWS** virtual servers.
* Installed **Puppet** Master, agents, created and automated platform environment setup.
* Integrated **SVN** into **Ansible** / **Jenkins** to automate the code check-out process.
* Worked able to create scripts for system administration and **AWS** using languages such as BASH and Python.
* Designed, configured and managed public/private cloud infrastructures utilizing **Amazon Web Services (AWS**)including **EC2, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, Elastic Beanstalk, S3, Glacier, Cloud Front, RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Formation, IAM, SNS.**
* Strong ability to troubleshoot any issues generated while Building, Deploying and in production support and documenting the build and release process.
* Worked on resolving network issues related to TCP/IP, SMTP, VPN, DNS, firewalls, routing, load balancing.
* Very good understanding of Microsoft Azure cloud platform. Experience with managing cloud delivery platforms, Azure/AWS.
* Experience deploying, maintaining and monitoring Microsoft **Azure** infrastructure assets.
* Experienced in deploying the code to web application servers like **WebSphere**, **WebLogic, Apache Tomcat, and JBOSS**.
* Knowledge in building and monitoring software projects continuously with a continuous integration tools such as**Ansible, Bamboo** and **Cruise Control**.
* Provide SME in all areas of Cloud (**IaaS**, **PaaS**, **SaaS**) to existing and perspective clients on multiple cloud platforms Azure/AWS and various **PaaS**platforms (Cloud Foundry/OpenShift).
* Ability to build deployment, build scripts and automated solutions using various scripting languages such as **Shell**, **Perl**, **PowerShell**, **Python**.
* Experience in using bug tracking systems like **JIRA**, **Remedy**, **HP**, **and QualityCenter.**
* Experience in integrating **Unit Tests** and **Code Quality Analysis** tools like **MSTest**, **JUnit**, and **Cobertura**.
* Developed standalone applications and web applications using languages and frameworks like JAVA, JSP, Servlets, SPRINGS, JDBC, Struts.
* Knowledge in using different RDBMS likeMicrosoft SQL Server, Oracle 8i, 9i, 10g, 11g, MySQL.
* Having work experience in support of multi, platforms like UNIX, Ubuntu, RedHat and Windows of production, test and development server.
* Managed environments **DEV**, **QA**, **UAT** and **PROD** for various releases and designed instance strategies.
* Provide **TFS** Security, Access administration and maintained workflows and managed deployments automated through **TFS** Using Perl object language.
* Monitoring tools like Nagios, Sensu, Zabbix and Splunk.
* Team player with excellent interpersonal skills, self-motivated, dedicated and understanding the demands of24/7 system maintenance and has good customer support experience.

**Educational Qualification**

Bachelor of Education in ECE from JNTU, Hyderabad, India. – 2008

**Technical skills**

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| --- | --- |
| Platforms | Ubuntu, Red Hat LINUX, Windows XP/ 7/ 8/10, RHEL, CENT OS |
| Version control tools | GIT, SVN, Clear Case, CVS, Perforace |
| Cloud | AWS, Open stack, VMware,Azure. |
| CI tools | Jenkins/Hudson, Anthill Pro, Bamboo, Team city. |
| Build tools | ANT, Maven, MS Build. |
| Configuration Management Tools | Chef, Puppet, Salt Stack, Nexus |
| Databases | MySQL PRO, MS SQL Server, SqlPlus, Oracle 8i, 10g, 11g,12c, MongoDB |
| Languages/ Scripting Languages | Bash Script, Ruby, Perl, Python, Shell Script, ANT Script, C, C++, Java, J2EE |
| SDLC | Agile, Scrum and Waterfall. |
| Continuous monitoring tools | Stack Driver, AWS cloud watch, Data Dog, New Relic |
| Bug tracking and ticketing | JIRA, Bugzilla, Remedy, HP Quality Center |
| Web/Application Servers | WebLogic, Web Sphere, Apache Tomcat, IBM JBoss |
| Web technologies | Servlets, JDBC, JSP, XML, HTML, Java Script. |

**Professional Experience**

**Client:** JP Morgan Chase & Co, Wilmington, DE**. Oct 2015 - Present**

**Role: Sr. AWS DevOps Engineer**

**Responsibilities:**

* Build and release software baselines, code merges, branch and label creation and interfaced between development and infrastructure.
* Managed Version Control **Subversion** (SVN) and **GIT** Hub Enterprise and Automated current build process with **Jenkins** with proposed Branching strategies to accommodate code in various testing cycles.
* Working closely with the setting up of the Configuration Management tool **Jenkins.**
* Used **PowerShell** for DevOps in Windows-based systems.
* Used and Administered Continuous Integration tools**Chef** and **Docker**.
* Using **Docker** in Environment variables, Configuration files, Option types and Strings & integers.
* Experience with Linux systems, virtualization in a large-scale environment, experience with Linux Containers (LXC) and **Docker**.
* Deployment and management of many servers via script and **chef**, utilizing cloud providers as a direct Jira.
* Configured local **Maven** repositories and multi-component Ant projects with **Nexus** repositories and scheduled projects in **Jenkins** for continuous integration.
* Installed **Chef** Master, agents, created and automated platform environment setup.
* Maintained **Chef** Servers and management application that can use to build and deployment of existing Java/.Net applications environment.
* Worked on Installation/Configuration/Administrated and migrated existing servers into **AWS** Infrastructure.
* Created build and deployment jobs in **Jenkins** for various components.
* Managed and controlled the source code repository, currently housed in **TFS**
* Evaluated and lead the conversion to using **Team Foundation Server** for integrated source control, builds, testing, and deployment and lead upgrades of TFS.
* Excellent working knowledge of Team Foundation Server (TFS) Architecture, design, development, administration and maintenance. Installing, configuring and administering **Jenkins CI tool** on Linux machines.
* Evaluated, Installed, and configured various **JIRA plugins** systems based on the requirement.
* Experience in network administration, deploying and troubleshooting of DNS, VPN, LDAP, Load Balancing, SMTP, Firewall etc.
* Used AWS **cloud** services to launch Linux and windows machines, created security groups and written basic **PowerShell** scripts to take backups and mount network shared drives.
* Configure, monitor and automated cloud based service **Amazon Web Services**.
* Setup Elastic Load Balancer for distributing traffic among multiple **WebLogic servers.**
* Was a part of a team that is creating an internal **oauth2\_proxy** with **Docker**, **Kubernetes**, **Nginx** and **AWS EC2** which helped the team access internal tools. This already helped us in
* Involved in deploying the content cloud platform on Amazon Web Services using **EC2, S3 and EBS.**
* Creating **S3 buckets** and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Worked with UDA team to deploy scalable **mesos** cluster in **AWS** with **docker**.
* Deployed the artifacts to **ApacheTomcat** web server and **Websphere** Application Servers.
* Planned and executed **Linux** system changes and upgrades, Customer Support
* Used **JIRA** as ticketing tool.
* Hands on development experience in customizing **Splunk** dashboards, visualizations, configurations, reports and search capabilities using customized **Splunk** queries.

**Environment:** SVN, GIT, Jenkins, Nexus, Power Shell, Splunk ANT, Maven,

Kubernetes, bamboo, Chef, JIRA, MS TFS, Nagios4.x/5.x, Linux/Unix, MS SQL, Windows, Java J2ee, Docker, AWS.

**Client:** DISH Network Corporation, Englewood, CO **April 2014 – Sept 2015**

**Role: AWS Engineer**

**Responsibilities:**

* Designed and implemented Software configuration management (SCM) and change management (CM) solution using **SVN**, **Jira**, **Clear Quest**.
* Did research on implementing a new tool, **Kubernetes** with **Docker** to assist with auto-scaling, continuous integration and rolling updates with less or no downtime.
* Worked on Managing the Private **Cloud Environment using Chef.**
* Setup **Chef**Server, workstation, client and wrote scripts to deploy applications.
* Rolled out **Chef** to all servers in testing environment, and used the **Chef** node database to drive host configuration, DNS zones, monitoring, backups, and VM allocation and configuration
* Used **Shell scripts** to automate the deployment process and deploy the java application to target environments.
* Used **GIT**, **SVN** in creating the packages, snapshots, branches and tags for developers in version control.
* **Utilize Cloud Formation** and **Puppet** by creating DevOps processes for consistent and reliable deployment methodology.
* Worked with Amazon Web Services (AWS) services like EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, Cloud Front, RDS, Redshift.
* Created scripts for system administration, AWS using language such as Python.
* Designed roles and groups for users and resources using AWS Identity Access Management (IAM).
* End to end Automation using **PowerShell** for User Account/ Mailboxes/ Distribution Group/ Security Group provisioning and management.
* Design and develop **Python** and **shell** scripts to yield higher efficiency in scripts and automation.
* Created **Chef** Automation tools and builds, and do an overall process improvement to any manual processes
* Administrated all aspects in **GIT** and troubleshoot with merge conflicts.
* Automating Operations task with **Python** and **Bash.**
* Installed, configured and administered Continuous Integration tools such as **Chef** and **Puppet** for automated builds.
* Installation, Configuration and administration of VMware.
* Responsible for build and deployment automation using **Puppet**, **Chef** containers and **Jenkins**.
* Used **SPLUNK** for operational intelligence, Field Extraction in configuration files
* Implemented **NANT**, **MS Build** builds to automate **JAR** and **WAR**.
* Used **Clear Quest** as ticketing tool.
* Used **Jenkins** for Continuous Integration and deployment into **Websphere** Application Servers and **JBoss** for **agile** projects.
* Used **JIRA** for bug tracking.
* Involved in administrating **Windows** Servers by installing/Configuring new patches and upgrades.

**Environment :**Java/J2EE, ANT, AWS, Maven, Chef, ORM, Linux, Splunk, Ngnix, OpenStack, Docker, Kubernetes, Shell/Perl Scripts, Python, SCM, GIT, Jenkins, Tomcat, Jira.

**Client:** EuraQA, Cherry Hill, NJ **Nov 2012 – Mar 2014**

**Role: DevOps Engineer**

**Responsibilities**

* Worked on Version control setups like GIT and integration tools Jenkins
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control.
* Analyze and resolve conflicts related to merging of source code for GIT.
* Installed, Configured and Administered Hudson/Jenkins Continuous Integration Tool.
* Developed automation framework for Application Deployments to the cloud environments.
* Developed shell scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
* Deployed the Java applications into web application servers like **JBoss**.
* Reviewed **OpenShift** PaaS product architecture and suggested improvement features after conducting research on Competitors products. Streamlined installation of OpenShift on partner cloud infrastructure such as Azure.
* Managed **Sonatype Nexus repositories** to download the artifacts (jar, war & ear) during the build.
* Implemented and set up Route53 record set AWS service for DNS assignment to Alias (ELB) and Cname(RDS) types resources.
* Created numerous IAM Roles to delegate access to various AWS resources for users and groups.
* Created IAM Users, Groups and restricted permissions to their respective task assigned.
* Set up Consolidated Billing for various AWS Accounts in the organizations for cost optimization and enhanced performances.
* Performed and deployed Builds for various Environments like **QA**, **Integration**, **UAT** and **Productions Environments.**
* Automation using **Puppet** and involved in developing Manifest and Modules for System and Application Configuration Management.
* Designing and implemented fully automated server build management, monitoring and deployment by Using **Puppet**.
* Worked on the installation and configuration of the monitoring tool **Nagios**.
* Implemented Nagios core/XI for monitoring Infrastructure resources.
* Set up customized monitoring with **Nagios**, &**PNP4Nagios** Graphs for the legacy and new environments.
* Automated Nagios services for **database server, web-server, application-server, networks, file sizes, RAM utilization, Disk performances** using **Shell** script.
* Bootstrapping automation scripting for virtual servers, using Microsoft **Azure**.
* Used **Azure** for building, deploying, and managing applications and services through a global network of Microsoft-managed data centers. It provides software as a service, platform as a service and infrastructure as a service and supports many different programming languages, tools and frameworks.
* Worked on **Apache and Firewalls i**n both development and production.

**Environment:** Ubuntu, Maven, Sonarqube, Nagios, Puppet, Shell, AWS, OpenShift, Java, Jenkins, Hudson, GIT, Apache Webserver, JBoss, Apache JMETER, Windows, Azure.

**Client:** Creehan & company, Canonsburg, PA **Oct 2011 – Oct 2012**

**Role: Build and release engineer**

**Responsibilities:**

* Developed and facilitate release and deployment management plans by working closely with the release and operations teams across the environments in support of releases.
* Manage the configurations of multiple servers using **Jenkins,** wrote multiple recipes and also customized facts for efficient management of the **Jenkins**clients.
* Reduce release time for staging and production releases through automation using **Ansible** and integrated with **Selenium** test.
* Implemented and maintained server virtualization using VMware, ESXi and Oracle Virtual Manager
* Managed **ClearCase** repositories for branching, merging, and tagging.
* Responsible for installing and configuring Continuous Integration tools such as **Puppet**and**Jenkins** to automate build, deployment processes.
* Developed **Shell/Batch/Perl** Scripts for automation purpose.
* Integrated Maven with SVN to manage and deploy project related tags.
* Designed, wrote and built deployment using Ant/ **Shell scripting** and automate overall process using Subversion and **Ansible**.
* Server configure management via **Ansible.**
* Installed **Ansible** Master, agents, created and automated platform environment setup.
* Design and develop **Perl** and **shell** scripts to yield higher efficiency in scripts and automation.
* Using **Puppet** in Environment variables, Configuration files, Option types and Strings & integers.

Installed and administered Artifactory repository to deploy the artifacts generated by Apache Maven and to store the dependent jars which are used during the build.

* Implemented **ANT** builds to automate **JAR** and **WAR**.
* Bootstrapping automation scripting for virtual servers, using VM Ware clusters.
* Installed/Configured/Maintained/Administrated the network servers DNS, NIS, NFS, SENDMAIL and application servers **Apache**, **JBoss** on Linux.
* Planned and executed **Linux** system changes and upgrades, Customer Support.
* Involved in administrating **Linux** Servers by installing/Configuring new patches and upgrades.
* Used **Clear Quest** as issue tracking toolfor**agile** projects.

**Environment:** Subversion (SVN), Jenkins, Confluence, Java/J2EE, ANT, MAVEN,VM Ware, Web Logic, Python Scripting, Shell Scripts, Junit, XML, UNIX, Windows XP, Oracle.

**Client: Suntron Systems, Pune, India Aug 2008 – Sep 2011**

**Role: Build Engineer**

**Responsibilities:**

* Developed standalone applications and web applications using languages and frameworks like JAVA, JSP, Servlets, SPRINGS, JDBC, Struts.
* Deployed **WARS** and **EARS** using Weblogic Admin Console as well as running scripts.
* Configured **JDBC** connection pools and data sources for the applications.
* Assist with maintaining current build systems, developed build scripts and maintained the source control system.
* Deployed build artifacts to Web sphere application server using **Maven**,**Perl, Shell**scripts.
* Deployed build and deployment scripts using **ANT** and **MAVEN** as build tools in **Puppet**to move from one environment to other environments.
* Troubleshoots system hardware, software, networks and operating system.
* Responsible for building and releasing packages to DEV and QA Environments.
* Responsible for design and maintenance of the **Subversion** Repositories.
* Secures system by developing system access, monitoring, and controls.
* Installed, configured and upgraded **Weblogic** application server.
* Performing clean builds according to the schedule published for a given release.
* Worked on resolving network issues related to TCP/IP protocol.
* Managed the source codes repository of multiple development applications using **Tortoise SVN**.
* Enforced automation in build and deployment procedures, executed code builds and deployment activities.
* Created and managed of all source code repositories, management security model, backup / restore of the source code repositories, and upgrading the version control system.
* Involved in administrating **Linux** Servers by installing/Configuring new patches and upgrades.

**Environment:** Java/J2ee, Eclipse, Ant, Maven, Hudson, Subversion, WebSphere Application Server (WAS), BASH, Unix, Python