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Kubernetes Engineer And Sr. Devops Engineer Resume

⚲ Milwaukee, WI

SUMMARY:

○ An outstanding, self - motivated professional with around 7 years of experience in IT industry with major focus on **Linux/Unix administration** and Software Configuration & **Build/Release Management.**

○ Experience in **Linux** Administration Installation, Configuration, Tuning and Upgrades of Linux (**RedHat** and Oracle).

○ Performs necessary systems maintenance in accordance with Sun and RedHat best practices and Company change management policies.

○ Implemented **AWS Cloud platform** and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation AWS Config, Autos calling, Cloud Front, IAM, S3, R53.

○ Worked on cloud-based servers like **AWS**, **AZURE** and Rackspace.

○ In-depth understanding of the principles and best practices of Software Configuration Management (**SCM**) processes, which include compiling, packaging, deploying and Application configurations.

○ Extensively worked with Version Control Systems **CVS, SVN (Subversion), GIT**.

○ Extensively worked with automation tools like Hudson, Jenkins and Build Forge to implement the End-to-End Automation.

○ Implemented cloud services **IAAS, PAAS** , and **SaaS** which include **Openstack** , **Docker** and **Openshift** .

○ **AWS** and **OpenStack** to provision new machines for clients. **S3** Storage Services on **AWS.**

○ Server provisioning, automation (Puppet/Chef/Ruby), maintenance and performance tuning

○ Hands on experience in installing and administrating CI tools like Hudson/Jenkins, Team city, Bamboo and ALM tools like Anthill Pro and TFS.

○ Performed integration of Code Quality Analysis Techniques like Find Bugs, PMD, Cobertura with CI tools.

○ Proficient with container systems like **Docker** and container orchestration like **EC2 Container Service**, **Kubernetes**, worked with **Terraform.**

○ Managed **Docker orchestration and Docker containerization** using **Kubernetes.**

○ Used **Kubernetes** to orchestrate the deployment, scaling and management of Docker Containers.

○ Good Knowledge in Shell, Python, Perl & Expect scripting

○ Provided release engineering support for Java SE and Sun middleware products. Improved buil release process through automation and productivity tools development.

○ Experience in administering and supporting the CM tools including Git, Subversion, Perforce, CVS on UNIX and Windows environments.

○ Experience customizing JIRA projects with various schemas, complex workflows, screen schemes, permission schemes, and notification schemes.

○ Experience in and demonstrated understanding of source control management concepts such as branching, merging, labeling and integration.

○ Experience in building and deploying java applications and troubleshooting the build and deploy failures.

○ Extensive experience in using Build Automation tools like, ANT, Maven.

○ Good knowledge in managing the Nexus and Artifactory repositories for the maven artifacts and dependencies.

○ Extensive experience in working with WebLogic, WebSphere and Apache web servers.

○ Experience in maintaining and executing build scripts to automate development and production builds.

○ Knowledge of databases like MySQL and Oracle.

○ Experienced in deploying Micro Services to App Servers and Database Changes to Oracle, db2, **MSSQL and**

○ Experience on developing different web applications using **Java, J2EE**, **Spring, Hibernate**.

○ Set up Build Infrastructure with Jenkins and Subversion server in AWS.

○ Experience in Amazon Cloud (EC2) Hosting and AWS Administration.

○ Good knowledge on managing and integrating code Quality tools like **SonarQube**, manage **sonar rules**, **Quality gates** .

○ Familiar with all major **PaaS** platforms such as **Google App Engine**, **OpenShift, Cloud foundry, CloudBees, etc.**

○ Expertise in VMware vSphere, VCenter, VMotion and Cloud Director.

○ Expertise in setup SolarWinds NPM, APM and Nagios Monitoring Systems Administration

○ Excellent communication, interpersonal, and analytical skills. Proven ability to learn and rapidly adapt to new challenges.

○ Good interaction with developers, managers, and team members to coordinated job tasks and strong commitment to work.

TECHNICAL SKILLS:

Cloud Services: AWS (EC2, S3, CloudWatch, RDS, Elastic Cache, IAM)

Configuration Management tools: Ansible, Chef, Puppet, ANT, Maven, Make

Programming: C, Java/J2EE, .NET, Xml, Korn Shell, Perl, Ruby, Python, Groovy, PowerShell, SQL, Boto, Fabric, JavaScript, HTML

OS Platforms: UNIX (Solaris 8,9,10), Linux 5/6, Ubuntu, AIX, Windows 2008,2012

SCM/Version Control Tools: Subversion, GIT, Tortoise SVN, Clear case, Perforce, CVS

Web Service Tools: JBoss, Apache Tomcat 5.x, IntelliJ IDEA, Oracle WebLogic 10.x/11.x, IBM WebSphe 5.x,6.x,7.0, IIS Server, JBoss

CI Tools: Jenkins/Hudson, Bamboo, U Deploy, X Deploy, Anthill Pro

SDLC: Agile, Waterfall Methodologies   ^

Database Systems: SQL Server 2008/2012, Oracle 9i/10g, PL/SQL, MS Access, DB2, Postgres, Sybase.

Hard Ware: Sun T2000, M5000, Ultra Enterprise 6000/5000, SPARC sun4c/sun4u, Dell Blade Servers, HP Blade Servers, Dell R720/R730.

Ticketing/Bug Tracking: Jira, Remedy, ServiceNow, Junit, PMD, Red Mine, and Bugzilla.

Virtualization: VMware, VCAC, VCenter.

Monitoring tools: Nagios, Hobbit, Splunk.

Container Technologies: Vagrant, Docker.

Network Protocols: SMTP, SNMP, ICMP, TCP/IP, FTP, TELNET, NIS, LDAP, UDP

<u>WORK EXPERIENCE:</u>

Confidential, Milwaukee, WI

Kubernetes Engineer and Sr. DevOps Engineer

<u>Roles & Responsibilities:</u>

○ Designed and implemented a continuous build-test-deployment (CI/CD) system with multiple component pipelines using Jenkins to support weekly releases and out-of-cycle releases based on business needs

○ Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.

○ Lead transition from manual configuration and deployment to 'infrastructure as code' using **Chef**, including design and implementation of cookbooks and tooling

○ Built and managed a large deployment of RedHat Linux instances systems with **Chef** Automation and

○ Implemented automated local user provisioning VMs created in **Openstack and AWS** cloud through Chef Recipes.

○ Experienced Cloud and DevOps engineer in Automating, Configuring and deploying instances on AWS, AZURE Cloud environments and Data centers.

○ Involved working with a **PaaS** solution such as **RedHat Openshift** .

○ Supported 300+ AWS cloud instances running Ubuntu, Redhat and windows environments.

○ Design of Cloud architectures for customers looking to migrate or develop new **PaaS, IaaS, or hybrid solutions utilizing Microsoft Azure or Amazon Web Services (AWS).**

○ Working knowledge on Azure cloud IaaS and PaaS Services, Azure SQL, Azure storage and Azure Services.

○ Provisioned **RedHat** Enterprise Linux Server using PXE Boot according to requirements.

○ Design roles and groups using Azure Identity and Access Management (IAM)

○ Migrated **SQL** Server 2008 database to Windows **Azure** SQL Database

○ Configuring and Managing in **Hadoop** Clusters for **Spark** streaming jobs using Microsoft **Azure** along with **SQL**.

○ Worked on Amazon AWS EC2 cloud services for installing, configuring and troubleshooting on various Amazon images like **Amazon Linux AMI, Redhat 4.x, 5. x.6.x,7.x, Ubuntu 12.x, 13.x, 14.x, 15.x.** Created and managed multiple Instances of Apache Tomcat and deployed several test applications in those instances in QA environment.

○ Created automated system to create VM's, storage accounts, Network Interfaces, etc. in Azure.

○ Enable your machine for Azure development by installing the Azure SDK.

○ Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes

○ Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.

○ Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.

○ Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.

○ R efactoring of monolithic applications to a **Microservices** and Component based architectures.

○ Worked on deployment automation of all the micro services to pull image from the private docker registry and deploy to docker swarm cluster using Ansible.

○ Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP

○ Worked with OpenShift platform in managing Docker containers and Kubernetes Clusters.

○ Worked on infrastructure with Docker containerization and maintained Docker Images and containers.

○ Implemented and managed Dynatrace on business social critical desktop and mobile applications.

○ Resolved 30+ customer complaints everyday related to Jenkins, Git, Clearcase, Nexus, Sonar, Java.

○ Created **Jenkins** CICD pipelines for continuous build & deployment and integrated **Junit** and **SonarQube** plugins in Jenkins for automated testing and for Code quality check.

○ Integrated **SonarQube** with Jenkins for continuous inspection of code quality and analysis with SonarQube scanner for Maven.

○ Provision virtual servers using vagrant and kitchen in Oracle VM virtual box, provisioned servers in Amazon **EC2**.

○ Streamlined installation of **OpenShift** on partner cloud infrastructure such as AWS and Azure.

○ Creating the automated build and deployment process for application, re-engineering setup for better user

○ Building/Maintaining **Docker** container clusters managed by **Kubernetes Linux, Bash, GIT** , **Docker, on GCP** .

○ Streamlined installation of **OpenShift** on partner cloud infrastructure such as AWS and Azure.

○ Utilized **Kubernetes** for the runtime environment of the **CI/CD** system to build, test deploy.

○ Designed and Implemented MVC architecture using **Spring** Framework, which involved writing Action Classes/Forms/Custom Tag Libraries &JSP pages.

○ Deployed virtual machines and another instance through OpenStack to handle different task fo.

○ Responsible for OpenStack project core infrastructure including code review, continuous integration systems and development tools.

○ Developed user access module of different internal and external applications (Presentation layer) using **Struts and Spring Framework**.

○ **Used spring** dependency on user access module and data access module.

○ Experience, and leading up to building a continuous integration system for all our products.

○ Implemented **AWS** solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups.

○ Responsible for Design of different Release Environments for new projects.

○ Implementing new projects builds framework using **Jenkins** & maven as build framework.

○ Implementing a Continuous Delivery framework using **Jenkins**, **Chef**, **Maven** & **Nexus** in Linux environment

○ Managed **Chef** Cookbooks to automate system operations.

○ Integration of Maven/Nexus, Jenkins, Urban Code Deploy with Patterns/Release, Git, Confluence, JIRA and Cloud Foundry

○ Using Jenkins **AWS** Code Deploy plugin to deploy to AWS

○ Changing the AWS infrastructure Elastic Beanstalk to Docker with **kubernetes.**

○ Configured Elastic Load Balancers (**ELB**) with EC2 Autos calling groups

○ Created monitors, alarms and notifications for EC2 hosts using Cloud Watch

○ Implemented a **Continuous Delivery** pipeline with Docker, and **GitHub** and AWS

○ Experimented with **Docker**, by using Docker-compose

○ Assisted in developing an Inventory management using Cassandra and producing various reports.

○ Scripting in multiple languages on UNIX, LINUX and Windows - Batch, Ruby, Shell script etc.

○ Responsible for product deployments into QA, STAGE and PROD environments.

○ Managing day-to-day software configuration management activities for multiple product lines, including source code control, Version control, branch management, **build** management, **release** management, etc.

○ Maintaining source code repository for all major and minor releases.

○ Writing **build (Maven) and deployment** scripts (Shell) to automate **build** and deployment of the application.

○ Procuring and configuring the server as per the needs of the **release** and the application.

○ Identify, troubleshoot and resolve issues related to **build** and deploy process.

○ Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks

○ Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using Subversion source control

○ Coordinate with Release Management regarding appropriate system releases among other development platforms

○ Designed the Release Plans while coordinating with Stake Holders including Project Management Lead, Development Lead, and QA Team Lead.

Environment: Ant, Java, Maven, Jenkins, Spring1.3.0, Linux, Solaris, SonarQube, WebLogic, Subversion, Shell scripting, WLST, Python scripting Nexus, CI/CD Chef, AWS, Docker, Openshift, Openstack, 2 Oracle, BMC Remedy, SharePoint, Kubernetes.

Confidential, Miami, Florida

DevOps Engineer

<u>Roles & Responsibilities:</u>

- Focused on automation, containerization, and integration monitoring and configuration management.
- Streamlined applications delivery to get applications out to customers faster.
- Developed and implemented software release management strategies for various applications according to agile process.
- Used **SVN and GIT** as source code repository and Involved in migrating from **SVN to GIT**.
- Created release branches in GIT by GIT Administration including branching, reporting and assisting with project and end user support.
- Managed the **GIT** using Nexus tool to automate the build process and used the same to share the snapshots and releases of internal projects.
- Used PowerShell for DevOps in Windows-based systems.
- Performed integration of Code Quality Analysis techniques - Check style, Find bugs with CI tools like **Bamboo.**
- Create and setup automated nightly build environment for java projects using **maven**.
- Build scripts using **ANT and MAVEN** build tools in Jenkins to move from one environment to other environments.
- Managed **Sonatype Nexus repositories** to download the artifacts (jar, war & ear) during the build.
- Used Puppet and Chef for Configuration Management tool.
- Experience in automation using Puppet and Chef.
- Developed automation scripting in Python (core) using Puppet to deploy and manage Java applications across Linux servers.
- Used **Shell scripts** to automate the deployment process.
- Experience in Installation of Splunk and setting up all the required attributes.
- Worked on Splunk to monitor the infrastructure implementation.
- Deployed **java applications** to application servers in agile continuous integration environment and also automated the whole process.
- Responsible for installing Jenkins master and slave nodes.
- Configured **Git with Jenkins** and schedule jobs using POLL SCM option.
- Created the build scripts using **Maven** for Java projects. Automating the build process by configuring Subversion for projects. Build tracking so that whenever defect is detected, developers will be able to track the source code. Handling Environment issue in **Linux boxes**.
- Worked on infrastructure with **Docker** containerization.
- **Kubernetes** is being used to orchestrate the deployment, scaling and management of **Docker** Containers.

○ Worked on Micro Services deployments on AWS ECS and EC2 instances

○ Actively worked on **Docker** and deploying and maintaining **Micro services** in Dev & QA environment.

○ Implemented **docker-maven-plugin** in maven pom to build docker images for all microservices and later used **Docker file** to build the docker images from the java jar files.

○ Implemented build stage- to build the micro service and push the docker container image to the **private docker registry.**

○ Used **Jenkins pipelines** to drive all microservices builds out to the **Docker registry** and then deployed to **Kubernetes**, Created **Pods** and managed using **Kubernetes**

○ Building/Maintaining **Docker** container clusters managed by **Kubernetes Linux**, **Bash**, **GIT**, **Docker**, on **GCP (Google Cloud Platform)** . Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI / CD** system to build, test deploy.

○ Developed microservice on boarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.

○ Experience on Deployment Automation & Containerization (**Docker, Kubernetes**).

○ Creating **Ansible Playbooks**, to Deploy VM and install the Components as per requirements.

○ Automation using **Puppet** and involved in developing Manifest and Modules for System and Application Configuration Management.

○ Worked on **Docker** open source project by automating the deployment of applications inside software containers.

○ To achieve Continuous Delivery goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx.**

○ Followed agile principles and used **JIRA** for maintenance and Bug development tasks.

○ Installed **Microsoft Team foundation Server** 2010 Power Tools to enhance the native features of Visual Studio and TFS. Configured software builds and automated build process and deployed to non-production and production environment.

○ Automated the build and release management process including monitoring changes between releases.

○ Configure, monitor and automated cloud-based service **Amazon Web Services**.

○ Created and managed custom Windows and Linux based AMIs

○ Setup Elastic Load Balancer for distributing traffic among multiple **WebLogic servers.**

○ Involved in deploying the content cloud platform on Amazon Web Services using **EC2, S3 and EBS.**

○ Implemented multi-tier application provisioning in AWS, **Openstack cloud** and integrating it with **Chef/Puppet.**

○ Used SonarQube to help maintain the source code quality.

○ Deploying the Openstack components on multimode with High availability environment.

○ Deploy Openstack environments through automated tools, Ansible / custom pipeline.

○ Integrating Jenkins **with AWS and Openstack to automatically launch instances.**

○ Responsible for **OpenStack** project core infrastructure including code review, continuous integration systems, and deployment tools.

○ Working with **DevOps** practices using AWS, Elastic Bean stalk and Docker with **kubernetes.**

○ Changing the AWS infrastructure Elastic Beanstalk to Docker with **kubernetes.**

○ Creating **S3 buckets** and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.

○ Worked on **PL/SQL** database objects tables, views, sequences, triggers, Procedures, Functions, Triggers, Cursors, Exceptions Partitions, analytical functions, views, Indexes and global temporary tables etc.

○ Developed, maintained and distributed release notes for each scheduled release.

○ Kept track of all releases and request of the developers through infrastructure management tool.

Environment: Subversion, GIT, Ansible, puppet, Splunk, Jenkins, Shell scripts, bash, Maven, bamboo, Apache Tomcat6.x/7.x, Jenkins1.x, JIRA, SonarQube, Openstack, Maven, Nagios4.x/5.x, Linux/Unix, PL/SQL, Windows, Java, J2EE, Docker, Kubernetes, AWS.

Confidential, Chicago, IL

Automation Engineer

<u>**Roles & Responsibilities:**</u>

○ Implementing new projects builds framework using Jenkins & maven as build framework tools

○ Implementing a **Continuous Delivery** framework using **Jenkins**, **CHEF**, Maven in Linux environment

○ Written wrapper scripts to automate deployment of cookbooks on nodes and running the chef client on them in a **Chef**-Solo environment

○ Setting up client server model of Chef in development environment of OCI

○ Worked on documentation - Chef Basics, Initial setup of Chef, **Databags** implementation, Coding standards, **Cookbook** document, testing docs.

○ Setting up continuous integration and formal builds using **Bamboo** with **Ivy** or **Bamboo** with **Maven Nexus** repository.

○ Involved in setting up **Jira** as defect tracking system and configured various workflows, customizations and plugins for the **Jira** bug/issue tracker.

○ Integrated **Maven** with Perforce to manage and deploy project related tags.

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

○ Mentor Business Areas on **Perforce Branching, Merging** strategies concepts.

○ Initially used **IBM Build Forge** to implement continuous integration process

○ Moved build scripts to **Build Forge** and identified/optimized bottleneck in flow resulting in build time reduction.

○ Migrated from IBM Build Forge to Atlassian Bamboo to implement more cost-effective solution.

○ Resolved update, merge and password authentication issues in **Bamboo** and **Jira**.

○ Involved in implementing Atlassian Tool Suite (**Jira, Bamboo, Crucible**).

○ Installed and configured **Crucible** for code reviews and web interface for browsing source code artifacts, commits, files, revisions, and individual/group code metrics.

○ Installed and configured **Confluence** as the enterprise wiki to document development and change management procedures.

- Involved partially in deploying WARs/EARs (backend) through **WAS (WebSphere Application Server)** console.   ∧
- Performed setup of clustered environment with **WebSphere** Application Server.
- Used **Python** script to configure the **WebSphere** application server in all the environments
- Support Lead developers with Configuration Management issues.
- Managed all the bugs and changes into a production environment using the **Jira** tracking tool
- Managed the entire release communication and Release co-ordination during the Project roll-out
- Involved in estimating the resources required for the project based on the requirements.

Environment: Java, Maven, Bamboo, Linux, WebSphere, Perforce, Shell scripting, Python scripting, Artifactory, Jira, Crucible.

Confidential

Unix Administrator

<u>**Roles & Responsibilities:**</u>

- Installation and configuration of Solaris 8,9 &10 and LINUX/ Cent OS/Redhat 6.X
- Created and maintained user accounts in RedHat Enterprise Linux(**RHEL**) and other operating systems
- Installed and configured Debian and Ubuntu for Testing the applications
- Configure cluster, failover cluster, troubleshoot cluster issues, add/delete resources, service groups
- Configured LUNs From VNX to Solaris and Linux servers using unispear for VNX storage
- Experience with puppet, chef and ansible
- Installed and configured the Emulux & QLogic HBA cards
- Set up CVS environment for Oracle stored procedures that increased efficiency of version control
- Strong knowledge on Cf-engine, Svn and perforce for production deployments
- Install Apache/Web logic server on Linux server
- Administrated EMC Clariion CX and AX series,
- Hands on experience in building servers and automating the provision of OS by using **Kickstart** for **RedHat** and **Jumpstart for Solaris.**
- Experienced in Server builds and automating the provision of OS by using Jumpstart for **Solaris** and **Kickstart** for **RedHat(RHEL).**
- Installed and configured servers using **RedHat Linux Kickstart** method.
- Work on secure internet transmission protocol (FTP w/SSH/SSL, HTTPS)
- Setup the QA, integration, UAT and Production environment for 200 Linux nodes
- Sarbanes-Oxley process compliance, documentation, and remediation with auditors
- VMWare ESX, Workstation, Server, and Player. Used VMWare Infrastructure 3 with VMotion on Dell platforms with hardware iSCSI on NetApp filers
- Backup and recovery using Verities Net backup. Upgraded Netback up
- Creating the Backup Tapes for Off-site
- Performed Disaster recovery steps in Test servers
- Responsible for **Database build, release and configuration.**
- Perform **Deployment** of Release to various **QA & UAT in Linux environments.**

○ Work with different team members for **automation** of Release components.

○ Configured LUNs From VNX to Solaris and Linux servers using unispear for VNX storage   ︿

○ Experience with puppet, chef and ansible.

Environment: Windows, Linux, Solaris, HP-UX, AIX, chef, Python, Shell, Ubuntu, Cent OS.

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