

**SAI**

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**DEVOPS/ AWS/ BUILD & RELEASE ENGINEER**

**PROFESSIONAL SUMMARY:**

* 6+ years of experience in Software Configuration Management, Build/Release Management and Change/Incident Management.
* Certified AWS solutions Architect -Associate.
* Worked on Migration Strategy and developed a POC migrating VMware/On-premise datacenter to AWS utilizing, AWS EC2, S3, RDS, VPC, and Direct Connect.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier. Used IAM to create new accounts, roles and groups.
* Involved in configuring Elastic Load Balancers with Auto scaling to handle high traffic loads
* Expertise in configuring and managing services like AWS EC2 using AMI’s available. Conduct systems design, feasibility & cost studies and recommend cost-effective cloud solutions like Amazon Web Services (AWS).
* Experience Setting up databases in AWS using RDS, storage using S3 bucket and configuring instance backups to S3 bucket.
* Working in Datacenter with the newest cloud and networking technologies
* Experience with Paas(Platform as a service) like AWS elastic beanstalk as computing platforms which typically includes operating system, programming language execution environment, database, web server.
* Experience with Iaas(infrastructure as a service) like AWS EC2 as computing infrastructure, physical or (quite often) virtual machines and other resources like virtual-machine disk image library, block and file-based storage, firewalls, load balancers, IP addresses, virtual local area networks.
* Extensive work experience with Cisco Routers, Cisco Switches, Load Balancers and Firewalls.
* DiskandFilesystemmanagementthroughLogicalVolumeManager(LVM)onHP-UX,LINUXandSolarisVolumeManager(SVM)onSolaris.
* Knowledgeofnetworking(TCP/IP,Ethernet),NIS,DNS,NFS,DHCP,SMTPandRAID.
* Knowledge of directory services, schema, object attributes, replication, DNS, FRS and DFS.
* KnowledgeofRoutersandSwitches,Subnet,VLAN,TCP/IP,VPN,OSImodel and Firewall(checkpoint).
* Experience in endpoint management suites such as LANDesk, OMS, SCCM, SCOM, Nexthink.
* Implemented with configuring new technologies and new infrastructure with greenfield implementation approach without integrating with legacy systems.
* Suggested process improvements and changes to reduce customer complaints based on root causeanalysis findings
* We gone with agile methodology, to risk free from customers with immediate feedback while going with green field implementation approach for entirely new environment.
* Created and wrote shell scripts (Bash), Ruby, Python and PowerShell for automating tasks
* Experience in development and configuration experience, LAMP setup on RHEL with software provisioning tools like Chef, Puppet and SaltStack
* Wrote Recipes and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/Packages using Chef as well as AWS for EC2/S3/Route53 &amp; ELB with Chef Cookbooks.
* Wrote chef cookbooks using the several of its components like attributes, files, recipes, resources and templates.
* Experience in creating and implementing Salt Stack States in deploying infrastructure as a code.
* Worked on web servers like Apache and application servers like Web logic, Tomcat, Web sphere to deploy code.
* Joined a newly formed enterprise shared technologies team to build an entire new PaaSinfrastructure.
* Expertise in using build tools like MAVEN and ANT for the building of deployable artifacts such as war & ear from source code.
* Experience in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like Subversion (SVN), GIT (GitHub, GitLab), Clearcase, Harvest and VSS.
* Automated builds using TFS team build and cruisecontrol.net build for .net applications and Salesforce.
* Thorough knowledge in developing applications using Core Java concepts like OOP, JDBC, advanced java concepts, Web Services.
* Experienced not only in deployment but also Developed RESTful API using apache axis to allow communication in between the application.
* Experience developing Web Applications using **Core Java**(Multithreading, JVM, Garbage Collection, Collections, Generics, annotations).
* Consumed Restful web services to get the JSON object (Response) and manipulated the JSON Object to display the response in the webpage.
* Worked as DevOps engineer/Build and release engineer in field of release automation for java/.Net application to achieve continuous integration (CI) and continuous delivery (CD).
* Extensively worked on Jenkins(Hudson)/Ansible/Bamboo/Docker. By installing, configuring and maintaining for continuous integration (CI) and for End to End automation for all build and deployments.
* Automated MySQL slave master replication using SaltStack.
* Installation, Configuration and Management of RDBMS and NoSQL tools such as SQL Server 2008/2012/2014, MySQL, DB2, PostgreSQL, and MongoDB.
* Wrote custom monitoring and integrated monitoring methods into deployment processes to develop self-healing solutions using Nagios, Graphite and Zabbix, cloudwatchetc.
* Experience in Atlassian products such as BitBucket, JIRA, Confluence, SourceTree, and Bamboo.
* Working experience on Automation Testing frameworks like Selenium.
* Deployed Docker Engines in Virtualized Platforms for containerization of multiple apps.
* Created the files and structure needed to run Docker images through our private Rancher Catalog
* The Docker container leverages Linux containers and has the AMI baked in. Converted our staging and Production environment from a handful AMI’s to a single bare metal host running Docker.
* Experience in monitoring System/Application Logs of server using Splunk to detect Prod issues.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI’s, whenever a new GitHub branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new Docker container from it.
* Performed Servers consolidation and virtualization using VMware virtual infrastructure, VMware ESX, Virtual Center, VM tools.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.

**EDUCATION QUALIFICATION:**

* Bachelor of technology – Jawaharlal Nehru technological university Kakinada.

**TECHNICAL SKILLS:**

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| **Bug Tracking tools** | JIRA, Fisheye, Crucible, Rally, Remedy and IBM Clear Quest, Bugzilla, and HP Quality Center. |
| **Build Tool** | Ant, Maven, Make, Grunt and Gradle, TFS |
| **Web Servers** | JBOSS, Apache Tomcat, Web logic, Web Sphere. |
| **ContinuousIntegration tools** | Jenkins, Bamboo. |
| **Configuration Management** | Chef, Puppet, SaltStack |
| **Containers** | Docker, vagrant, kubernates |
| **Operating Systems** | RHEL/CentOS 5.x/6.x/7, Ubuntu/Debian/Fedora, Sun Solaris  7/8/9/10, Windows Server 2003/2008/2012. |
| **Scripting Languages** | Shell, Bash, Perl, Ruby and Python scripting |
| **Database System** | MySQL, MongoDB, PostgreSQL, SQL Server |
| **Cloud Computing** | Amazon Web Services: EC2, IAM, Elastic BeanStalk, Elastic Load Balancer(ELB), RDS, DynamoDB, S3, Glacier, SQS, SNS, Cloud Formation, Route 53, VPC, CloudWatch. |
| **Monitoring services** | Nagios, Splunk, kibana, Elastic-search,dynatrace |
| **Source code modulation** | Git, GitHub, SVN, CVS, Bitbucket, Wily-Introscope. |
| **Networking** | TCP/IP, NIS, OSPF, NFS, DNS, DHCP, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP. |

**WORK EXPERIENCE:**

**Client: OSCA,Jefferson City, MO FEB 2016- TILL NOW**

**DEVOPS/AWS ENGINEER**

**Responsibilities:**

* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* As there is no cloud based infrastructure at first, we have migrate from current on premise infrastructure to AWS cloud ,we assumed implementation as a greenfield implementation approach and followed Agile methodology for entirely new environment.
* So greenfield implementation, we faced problems with legacy systems and we changed the infrastructure as a cloud from scratch.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Managing a production infrastructure on Amazon Web Services VPC utilizing AWS Code Deploy, S3, EC2 Container Service, Cloud Formation, including Auto Scaling.
* Worked on Migration Strategy and developed a POC migrating VMware/On-premise datacenter to AWS utilizing, AWS EC2, S3, RDS, VPC, and Direct Connect.
* Build server deployment on Cloud AWS (EC2) servers with help of DevOps tools like Chef/Puppet.
* Implemented AWS Solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups.
* Configured S3 versioning and lifecycle policies to backup and archive files in Glacier. Used IAM to create users, accounts, roles and groups.
* Worked with Ansible (automation tool) to automate the process of deploying/testing the new builds in each environment, setting up a new node and configuring machines/servers.
* Created Ansible playbooks to automatically install packages from a repository, to change the configuration of remotely configured machines and to deploy new builds.
* Configured the Ansible playbooks with Ansible Tower so that other users can run them with just a push of a button. Demonstrated how Ansible along with Ansible Tower can be used to automate different software development processes all over the organization.
* Migrated Microsoft SQL Server databases to AWS RDS and setup Multi-AZ Deployments.
* Implementing a Continuous Delivery framework using Jenkins, Maven in Linux environment
* Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system.
* Test automation for web application (SWAP module) using Cucumber.
* Familiar with Cucumber, Selenium Web Driver, Selenium commands and x-path
* Consumed Restful web services to get the JSON object (Response) and manipulated the JSON Object to display the response in the webpage
* Installation, configuration and administration of Apache, WebLogic, Tomcat and WebSphere.
* Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Responsible for design and maintenance of the Subversion/CVS Repositories, views, and the access control.
* strategies and Managed SVN repositories for branching, merging, and tagging.
* Implemented Maven builds to automate JAR and WAR.
* Resolved merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads.
* Managed end-to- end solution delivery; led scrum meetings, sprint planning, and sprint retrospection.
* Monitoring system performance, Server load and bandwidth issues.
* Building & configuring Red Hat Linux systems over the network, resolving tickets per the priority basis.
* Used Jira as ticket tracking and work flow tool.
* Created deployment request tickets in Bugzilla for the deploying the code to Production.
* Coordinated with developers, Business Analyst and Managers to make sure that code is deployed in the Production environment.
* Suggested latest upgrades and technologies for NoSQL databases. Evaluated system performance and validated NoSQL solutions.
* Executed the DB Scripts (DML and DDL) which have dependencies on the code on Oracle DB. Documented the deployment process (Migration Doc) of code to production on an Excel Sheet.
* Configuration and troubleshooting - LAN and TCP/IP issues.
* Participated in the release cycle of the product which involve environments like Development QA UAT and Production.
* Performed tasks on F5 load balancer like ordering new certs, installing and renewing SSL certificates, bouncing servers with performance issues after taking them out of the server pools, ID maintenance.
* Shared storage on DRBD, Network file system (NFS). Shared filesystems such as GFS. Knowledge on SAN, NAS, other File systems.
* Application failover using keepalive/heartbeat/custom scripts, Resource allocation for cost-performance balancing.

Environment: AWS, Jenkins, Ansible, Ruby, Python, Redhat Linux 6 / 7, SVN, XML, JBOSS, Windows XP, Python Scripts, Shell scripts, JSON, ANT, MAVEN, JIRA, Bugzilla, Microsoft sql database, NoSQL, DNS, DHCP, BASH, WebSphere, Nagios, dynatrace, saltstack.

**Client: Footlocker, Harrisburg, PA SEP 2014 – JAN2016**

**DEVOPS/AWS ENGINEER**

**Responsibilities:**

* Maintained and administered GIT source code tool.
* Created Branches, Labels and performed Merges in GIT.
* Designing and developing new back-end services, maintaining and expanding our Amazon Web Services infrastructure, and providing mentorship to others on my team.
* Implemented & maintained the branching and build/release strategies utilizing GIT and STASH.
* Developed processes, tools, automation for Jenkins based software for build system and delivering SW Builds.
* Managed build results in Jenkins and deployed using workflows.
* Delivered specific versions of various components of an application into target environments.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Actively participated in the automation effort. Wrote security & web architecture provisioning scripts for Opscode Chef, in Ruby.
* Installed and administered Docker. Wrote Docker images for Bamboo, Nexus and various.
* Responsible for writing Chef Cookbooks to configure nodes and wrote Opsworks Chef Recipes.
* Constructed/Architected a Continuous Integration CI Server and Implemented Build/Deploy automation Server utilizing CI Technologies like Jenkins/Hudson, Subversion, JIRA and Selenium.
* Deployment and implementation of Chef for infrastructure as code initiative.
* Using Configuration Management Tools like chef for automation of infrastructurerelated components and applications like Tomcat/Apache/Nagios/LDAP/zookeeper, SSH, NTP and DNS configurations.
* upgrading, collapsing, merging and consolidation of complex multi-domain and globally dispersed Active Directory Infrastructures
* Designed and Developed Bamboo Build deployments on Docker containers.
* Developed and managed delivery pipeline and prioritized functioning period and quick server response time.
* Installed Docker Registry for local upload and download of docker images and even from docker hub.
* Worked on Docker-Compose and Docker-Machine.
* Worked with Kubernetes as It usually works with the [Docker](https://en.wikipedia.org/wiki/Docker_(software)) container tool and coordinates between a wide cluster of hosts running Docker.
* Working with Terraform to create AWS components like EC2, IAM, VPC, ELB, Security groups
* Modeled the structure for multi-tiered applications to deploy each tier.
* Have used Confluence to create, share and discuss content and projects.
* Familiar and experienced with Agile SCRUM development.
* Proposed and implemented branching strategy suitable for agile development in Subversion.
* Created Branches, and performed Merges in Source Tree &Stash.
* Installed and configured Jenkins for Automating Deployments and providing automation solution.
* Integrated GIT into Jenkins to automate the code check-out process.
* Knowledge of concepts in code lines, branching, merging, integration, versioning etc.
* Worked with customers, developers, testing, product management and support staff.
* In-depth understanding of large complex software systems to isolate defects, reproduce defects, assess risk and understand varied customer deployments.
* Responsible for design and maintenance of the GIT Repositories, views, and the access control strategies.
* Worked with Atlassian tools like Bamboo & Jira.
* Experienced in Installing, Upgrading, Patching, Configuring and Administrating Red Hat Linux.
* Installed and administered Atlassian tools like Bamboo, Jira, Confluence and Stash.
* Created automation and deployment templates for relational and NoSQL databases (standalone and RDS), including MySQL, Mongo DB.
* Used PowerShell for DevOps in Windows-based systems.
* Configured networking services such as DNS, SSH, DHCP and printer services in Red Hat Linux servers.
* Performed RPM and YUM package installations, patch and other server management.
* Created work flows in Jira to manage the changes from development till Production.
* Used the continuous integration tool Bamboo to automate the daily processes.
* Hands on experience on JIRA for creating bug tickets, workflows, pulling reports from dashboard, creating and planning sprints.

**Environment:** GIT, STASH, Bamboo, Java, Python, MAVEN, JIRA, Linux 5.x/6.x/7.x, XML, JBOSS, Windows XP, Python Scripts, Shell scripts, terraform, AWS, Jenkins, Zookeeper, ANT, .NET, MAVEN, JIRA, Ruby, MySQL, Mongo DB, BASH & KORN Shell, WebSphere, Splunk, kibana.

**Client: Legacy.com, Naperville, Chicago MAY 2013 – AUG2014**

**DEVOPS ENGINEER**

**Responsibilities:**

* Configured newly featured Git with TFS 2013.
* Configured TFS 2013 Collections, Build Definitions, Build Controller, agents and Work Items, templates as per request.
* Implementation of TFS Data Model to provide reporting on different quality assurance, development and various other metrics.
* Installed Cruise Control and performed troubleshooting during installation. Used the continuous integration tool Hudson to automate the daily processes.
* Developed the user interface components using HTML5, CSS3, JavaScript, AJAX, JQuery and also created custom tags
* Developed RESTful API using apache axis to allow communication in between the application.
* Involved in analysis of existing SVN structure and its repositories and current release policy.
* Worked proactively with Principal Architects and Development Lead’s to define standard version control process suitable for the organization.
* Proposed migration strategies and completed POC’s on migration from SVN to GitHub.
* Involved in analysis and implementation of GitHub workflows and branching models based on organization system and proposed post migration strategies.
* Responsible for the GitHub environment setup.
* Migrated source code version control from SVN to GitHub.
* Implemented GitHub organization structure and created repositories and defined branching and access control polices across the organization.
* Integrated customized automated deployment manager tool with the GitHub by changing and improvising the shell scripts previously used for SVN.
* Worked as admin to the GitHub organization and repositories for different projects.
* Involved in version control activities for the UAT environment setup.
* Worked with project owners & Architects and Lead’s to define release policies across different environments.
* Worked extensively with moving on premise infrastructure to cloud which is like to be a cloud as infrastructure.
* Here I gone with AWS services to make cloud as infrastructure. Experienced in utilizing, AWS EC2, S3, RDS, VPC, and Direct Connect
* Deployed Puppet, Puppet dashboard, and PuppetDB for configuration management to existing infrastructure.
* Integrated GitHub with Jenkins for build automation.
* Deployed Puppet, puppet dashboard, and PuppetDB for configuration management to existing infrastructure.
* Created development branches from Master branch for every sprint and created release branches for testing and hotfix branches for bug fixing.
* Worked with Lead’s and developers while merging development branch with master branch and created tags for production releases.
* Performed build and release activities from end to end.
* Created ant, maven scripts for build and deploying archives to nexus repository manager server.
* Worked as Jenkins admin and involved in creating build pipelines and installing plugins.
* Trained developers & Architects and Lead’s on GitHub version control.
* Integrated Rally with GitHub for efficient project management.
* Used Box, SharePoint, and Confluence for sharing project related documents across the teams and organization.
* Used JIRA as ticketing and tracking tool.
* Involved in testing of GitHub by integrating with other deployment automation tools.
* Deployed the artifacts to Apache Tomcat web server and WebSphere Application Servers.
* Responsible for running different types of static analysis, code coverage and unit tests from the CI server.
* Involved in the enhancements for new projects on Design, Architecture.

**Environment:** Subversion, GitHub, Puppet, Ant, Maven, Jenkins, JIRA, Rally, Confluence, Shell scripting, Apache Tomcat, Nexus, JBoss, PostgreSQL, Linux, Windows, TFS, SharePoint.

**Client: S3india pvt ltd., Faridabad, India SEP 2011 – APR2013**

**BUILD & RELEASE ENGINEER**

**Responsibilities:**

* Managed the Source Code to have Latest Version of code available from the production releases.
* Create and Maintain Subversion Branching, Merging and Tagging across each Production releases and perform builds using Hudson Continuous Integration using Maven Scripts.
* Assess the release complexity for all applications in the Group Benefits Space and perform all the required release paper work which gets tracked as CRQs in Remedy Tool and Share point on time.
* Coordinated the total of 56 applications parallel releases (Scheduled/Emergency/Weekly) for deploying their code into Production Servers and training servers consisting of vendor applications.
* Support weekends during implementation of releases and extend work hours based on application builds required.
* Organized weekly release meetings with multiple development teams to identify the releases ahead and bring awareness on milestones as per master release calendar.
* Accountable for on-time delivery of all release process outputs as defined in the release policy, processes and procedures.
* Perform Builds in Development and Testing environments where ANT Scripts are used to generate build packages for Development Environments and Build Management tool called Continuum is used for placing Maven Snapshot builds.
* SCM Policies are implemented by defining Build and Release Management, Change Management, Version Management and Deploying.
* Ensuring UAT signoffs and Code review signoffs from the Development before placing the builds and release launches smoothly.
* Responsible for Plugin Management, User Management, Regular Incremental backups and Regular Maintenance for Recovery.
* Deployed and configured, Windows 2000/ 2003 Servers, with DHCP, DNS, IIS, Active Directory Domain Controllers, Group Policy, Internet, TCP/IP, and Routing concept.

**Environment:** Hudson, Remedy, Putty, SharePoint, MAVEN, Subversion, Windows XP.

**Client:Proclass technologies pvt ltd,. Hyderabad, India.July 2010 – AUG2011**

**LINUX/UNIX SYSTEM ADMINISTRATOR**

**Responsibilities:**

* Worked as a System Administrator for UNIX and Linux servers.
* Configured Redhat Linux 3.x & Solaris 8,9 for production, staging and test environments.
* Install and configure DHCP, web (Apache, IIS), mail (SMTP, IMAP, POP3), and file servers on Solaris and Linux servers.
* Created and managed user accounts, security, Access Control Limits (ACL), permissions, disk space and process monitoring in Red hat Linux and Solaris.
* Monitored Disk & Memory Utilization on Solaris 9.
* Upgraded Solaris servers to new technology levels configured LVMs using Veritas.
* Experience using LVM creating VGs, LVs, and disk mirroring.
* Installing and setting up Oracle9i and Websphereon Linux for the development team.
* Implemented Virtualization using VMWare in Linux on HP-DL585.
* Linux kernel, memory upgrades and swaps area. Red hat Linux Kickstart Installation.
* System performance monitoring and troubleshooting in Solaris Environments 8 & 9.
* Provided logical design and architecture for the enterprise storage network.
* Creating users, managing user permission, maintaining User & File system quota in Redhat Linux and Solaris and Linux.
* User management, security planning and implementation, Backup and restore Management.
* Created Micro partitioning of processor by dividing physical processor’s computing power into fractions of a processing unit and share them among multiple logical LPARs.
* Installation, Configuration & Upgrade of Solaris operating systems running oracle Database.
* Worked with Database administrators to tune kernel for Oracle installations on Linux.
* Configured cascading, mutual takeover and rotating modes of operation of the HACMP and HACMP/ES products.
* Performing Failovers in HACMP / cluster environment, monitoring servers.
* Datacenter equipment installation (servers, network appliances from all big vendors on the market)
* Configuration and Administration of DNS, NIS, NIS+, NFS, Automount, DHCP, FTP, LDAP, Samba Sendmail, Servers and clients. Security layers like SSL, SSH, HTTPS, SFTP.
* Installation and configuration and maintenance of Netscape and Apache web server.
* Writing Shell scripts for automation of job, system monitoring and error reporting.
* Configuration of Hardware and Software RAID, disk replacement and File system recovery.
* Worked on EMC disk storage to allocate disk space.
* Backup maintenance through TSM using Tape libraries, planned and setup Disaster Recovery Servers.
* Drafted shell scripts for automated installations, to extract logs.
* Documented backup policies and procedures for backup routines, schedules and restore policies.

**Environment:** UNIX, Veritas, POP3, Redhat LINUX 6/7., TCP/IP, NIS, OSPF, NFS, DNS, DHCP, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP, samba server, oracle, SSH, RAID Management, disk management.