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SAINATH DEVULAPALLY

Sr. AWS DEVOPS ENGINEER

E-MAIL: [sainathdevops87@gmail.com](mailto:sainathdevops87@gmail.com)

262-696-9369

**PROFESSIONAL SUMMARY:**

* Professional experience of 8+ years in IT industry, comprising of Delivery management, Design, Developmentand Cloud implementation. specialized in DevOps Engineer working on **Redhat Linux, Solaris, Oracle Linux, AIX, Cent OS** and **AWS** environments.
* Installed and Deployed **Red Hat Enterprise Linux 6.x/7.x, CentOS** and installation of packages and patches for Red Hat Linux Servers.
* Created and wrote **shell scripts (Bash), Ruby, Python and PowerShell** for automating tasks.
* Experience in working with DevOps configuration management tools such as **Chef, Puppet, Ansible.**
* Experience in working with Chef Automation for creating cookbooks comprising all resources, Databags, templates, attributes.Created and Maintained Chef Recipes and cookbooks to simplify and expedite deployment of applications.
* Worked on setting up Puppet master and puppet agents for managing enterprise policies and configurations.
* Experience withAWS instances spanning across Dev, Test and Pre-production and Cloud Automation through Open Source DevOps tools like **Chef, Jenkins & Docker.**
* Extensively worked on **Jenkins**by installing, configuring and maintaining for continuous integration **(CI)** and for End to End automation for all build and deployments.
* Experience in working with EC2 Container Service plugin in **JENKINS**which automates the Jenkins master-slave configuration by creating temporary slaves.
* Leveraged Amazon Web Services through AWS console and **API** Integration.
* Experience in Infrastructure Development and Operations, involved in designing and deploying utilizing almost all the AWS stack like **EC2, EBS, S3, VPC, RDS, SES, ELB, Autoscaling, CloudFront, CloudFormation, ElacticCache, CloudWatch, SNS, Route 53**.
* Experienced in Cloud automation using **AWS Cloud Formation templates, Python, Ruby, Chef (DevOps), Puppet (DevOps).**
* Automate provisioning and Maintaining large number of servers on **AWS instances**.Designed highly accessible, fault tolerant and cost effective systems using multiple **EC2 instances**, **Auto scaling**, **Elastic Load Balance** and **AMIs**.
* Configuring and Networking of **Virtual Private Cloud (VPC)** Written Cloud formation templates and deployed AWS resources using it.
* Creating S3 buckets also managing policies for **S3 buckets** and Utilized S3 bucket and **Glacier** for storage and backup on AWS by creating Snapshots.
* Experience to manage **IAM** users by creating new users, giving them a limited access as per needs, assign roles and policies to specific user.
* Worked on creating **CloudFormation** templates for dev, test, staging and production.
* Worked on infrastructure with **Docker containerization**. Collaborated with development support teams to setup a continuous delivery environment with the use of **Docker**.
* Involved in building own **Paas**with **Docker**; deployed various applications through Dockers containers.
* Installed, Configured, Managed Monitoring Tools such as Splunk, **NAGIOS** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Successfully installed and configured **NAGIOS** monitoring system to monitor the production server environment.
* Experience with built tools like **ANT, Maven**.
* Experience in **Branching, Tagging and Maintaining** the version control and source code management tools like **GIT(Github/Gitlab), SVN (subversion)** on Linux and windows platforms.
* Extensive working experience in working on with agile environment and have a Full understanding of **SDLC**and process.
* Excellent communication skills and extensive documentation experience.

**TECHNICAL SKILLS:**

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| --- | --- |
| LINUX DISTRIBUTIONS | CENTOS 6.5,7, UBUNTU, RED HAT, SOLARIS. |
| Version control tools | SUBVERSION (SVN), GIT. |
| CONFIGURATIONMANAGEMENT | CHEF, PUPPET, ANSIBLE. |
| AUTOMATION/BUILD TOOLS | ANT, MAVEN, DOCKER, JENKINS. |
| AWS SERVICES | EC2, ELB, VPC, RDS, IAM, CLOUDFORMATION, S3, CLOUDWATCH, CLOUD TRIAL, SNS, SQS, SWF, EBS. |
| PROGRAMMING LANGUAGES | RUBY, PERL, PYTHON, BASH SHELL, POWERSHELL,C++,JAVA SCRIPT |
| SERVERS | APACHE TOMCAT, WEBLOGIC, WEBSPHERE, TFS, IIS, JBOSS, NGINIX. |
| LOGGING & MONITORING | NAGIOS, SYSLOG. |
| DATABASE SYSTEM | MySQL,SQL SERVER 2000/2005, MONGO DB.  ORACLE 9I/10G-PL |
| PLATFORMS | UNIX, Linux, HP-UX, Solaris, Microsoft Windows Vista/ XP |
| |  | | --- | | Web Technologies | | Google Web Toolkit, HTML, JavaScript, CSS, XML, XSLT. |

**WORK EXPIRIENCE:**

**PRIME HEALTH CARE SERVICES - Ontario, CA. FEB 2016 – TILL DATE**

**Sr. AWS/DEVOPS ENGINEER**

**RESPONSIBILITIES:**

* Involved in designing and deploying multiple applications using the almost all the **AWS cloud infrastructure** focusing on high availability, fault tolerance and auto-scaling of the instances
* Setup and build AWS infrastructure various resources, **VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.**
* Maintained the user accounts **IAM Roles,** setting up **Route 53(CNAME), VPC, RDB, Dynamo DB, SES, SQS and SNS** services in AWS cloud.
* Installed and configured the configuration management tool**Chef** for Cloud Automation. Created chef servers / work station and nodes via CLI.
* Automated the cloud deployments using **chef, python** and**AWS CloudFormation** Templates.
* Experience in Performance Tuning and Query Optimization in**AWS Redshift**.
* Responsible for continuous integration and continuous delivery using **Jenkins, Maven and Chef.**
* Installed Chef Server and clients to pick up the Build from Jenkins repository and deploy in target environments (Integration, QA, and Production).
* Worked on Cloud automation using **AWS Cloud Formation templates**.
* Used **AWSBeanstalk**for deploying and scaling web applications and services developed with PHP,python, ruby and java.
* Provided high durability of the available data using data storage in the AWS S3 bucket, versioning **S3**, **lifecyclepolicies**.Also, webhosting the data from the **S3 bucket** by creating **URL’s**.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* ManagedAWS EC2 instances utilizing **Auto Scaling, Elastic Load Balancing** and **Glacier** for our **QA** and **UAT** environments as well as infrastructure servers for GIT and Chef.
* Developed installer scripts using **Maven, Python** for various products to be hosted on Application Servers.
* Monitoring of **EC2** instances using **Nagios.** Involved in Monitoring/Network Monitoring/Log Trace Monitoring.
* Implemented **Chef** Cookbooks for OS component configuration to keep**AWS** server's template minimal.
* Written **Chef** Cookbook, recipes to automate installation of Middleware Infrastructure like **Apache tomcat, jdk,** and configuration tasks for new environments etc.
* Experience in administering and maintaining Atlassian products like **JIRA, bamboo, Confluence.**
* Implemented **ChefRecipes** for Deployment on build on internal Data Centre Servers.
* Evaluating testing of Chef Recipes - Concept of Test Driven Development for Infrastructure as a Code.
* Also, re-used and modified same **Chef Recipes** to create a Deployment directly into Amazon **EC2** instances.
* Experience with container based deployments using **Docker**, working with Docker images, Docker HUB and Docker registries.
* Worked on creating **Dockercontainers** and Docker consoles for managing the application life cycle.
* Worked on setting up the automated build on **DockerHUB**.
* Implemented Power Shell scripts that automated creation of contacts from Active Directory users and updating of address books -increasing productivity and efficiency.
* Automate Continuous Build and Deploy Scripts for **Jenkins** Continuous Integration tools.
* Worked extensively with different Bug tracking tools like **JIRA, Remedy**.
* Implemented rapid-provisioning and life-cycle management for **Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.**
* Defined branching, labeling, and merge strategies for all applications in **Git**.
* Manual Installation and configuration of **Weblogin, Tomcat and Apache servers.**
* Maintenance of source code in **GIT**.Extensive experience in using Version control systems includes **Subversion (SVN), GIT** and **GITHUB.**

**ENVIRONMENT: DEVOPS, AWS, TOMCAT, APACHE, NAGIOS, JENKINS, PYTHON, RUBY CHEF, JIRA, CONFLUENCE, MAVEN, ARTIFACTORY, GITHUB, UBUNTU, CENTOS, LINUX,CLI, ELB, SQS, S3, CLOUDFORMATION TEMPLATES, RDS, CLOUD WATCH, RUBY, POWERSHELL, CHEF.**

**BANK OF THE WEST - San Francisco, CA. MARCH 2015 – JAN 2016**

**Sr. AWS/DEVOPS ENGINEER**

**RESPONSIBILITIES:**

* Deploying, planning, monitoring, and maintenance of amazon AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) and virtual machines as required in the environment.
* Developed automation framework for Application Deployments to the cloud environments.
* Worked on Managing the Private **Cloud Environment** using **puppet.**
* Implemented AWS solutions using **EC2**, **S3**, **RDS**, **EBS**, Elastic Load Balancer, **Auto scaling groups**, Optimized volumes and EC2 instances.
* Working on Multiple AWS instances, set the security groups, **Elastic Load Balancer** and AMIs, **Autoscaling** to design cost effective, fault tolerant and highly available systems.
* Creating S3 buckets and managing policies for S3 buckets and Utilized **S3 bucket** and Glacier for Archival storage and backup on **AWS**.
* Lead, many critical on- premises data migration to AWS cloud, assisting the performance tuning and providing successful path towards RedShift Cluster and RDS DB engines
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Managing AWS Infra and automation with CLI, **API**.
* Assign Roles, manage Users and groups and assign policies using AWS Identity and Access Management (IAM).
* Configured **Elastic Load Balancers (ELB) with EC2 Autoscaling groups.**Created monitors, alarms and notifications for EC2 hosts using **CloudWatch**.
* **Setup AWS VPC’s** for **dev**, **staging** and **Prod** environments.
* Configure and ensure connection to RDS database running on **MySQL** engines.
* Worked on **puppet** as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
* Assigned security groups, network ACLs, Internet Gateways, NAT instances and Route tables to ensure a secure zone for organizations in AWS public cloud.
* Installed/Configured and Managed **Puppet** Master/Agent. Wrote custom **Modules** and **Manifests**, downloaded pre-written modules from **puppet**-**forge**. Upgradation or Migration of Puppet community and Puppet Enterprise.
* Designed & implemented **automatedserverbuild** management, **monitoring**&**deployment** using **Puppet, Nagios**.
* Installed, Configured and Administered **Jenkins** Continuous Integration Tool.
* Responsible for **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation using**Jenkins** along with Shell scripts to automate routine jobs.
* Developed a continuous deployment **pipeline** using **Jenkins**, **shellscripts**.
* Worked on building & deploying Java code through **Jenkins**, used Jenkins Amazon Web Services (AWS) **CodeDeployplugin** to deploy AWS and worked on **AWSCloudmanagement.**
* Automate build and deployments of version control tools with **SVN, GitHub/Gitlab.**
* Experience in**docker** container Virtualized the servers using the **Docker** for the test environments and dev-environments needs. And, configuration automation using Docker containers.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using **Amazon EC2**, **Chef**, and custom **Ruby**/**Bashscripts**.
* Vulnerability **Assessment**&**Penetration** Testing on the infrastructure on AWS for **security**.
* Designed, wrote and implemented **Pythonscript** for taking automatic **EBSsnapshots** of **EC2** instances.
* Managed **GIT(Github/Gitlab)** and **SVN** as Source Control Systems.
* Managed central repositories. Implemented **Atlassian** Stashalong with **GIT** to host GIT central repositories for source code across products, facilitate code reviews and login audits for Security Compliance.

**ENVIRONMENT: SHELL SCRIPTING, PUPPET, CHEF, GITHUB, JIRA,CLI, PYTHON, TOMCAT, APACHE, ORACLE, JENKINS, RUBY, JIRA, MAVEN, UBUNTU, CENTOS, AWS, ELASTIC LOAD BALANCER, S3, CLOUD WATCH, IAM, RDS, STORAGE GATEWAY.**

**FOSCAM DIGITAL TECHNOLOGIES - Houston, TX. SEP 2013 – FEB 2015**

**AWS/DEVOPS ENGINEER**

**RESPONSIBILITIES:**

* Experienced in working with amazon web services environment and possessed a good knowledge of AWS services like **EC2, cloud watch, elastic load balancers, route 53.**
* Managed multiple instances, assigned security groups.Auto scaled instances to design cost effective, fault tolerant and highly reliable systems.
* Managed AWS infrastructure and automation with CLI, **API**.
* Responsible for using AWS Console and AWS CLI for deploying and operating AWS services
* Built **S3 buckets** and managed policies for S3 buckets and used S3 bucket and glacier for storage and backup on AWS.
* Extracted the data from **MySQL, Oracle, SQL Server** and loaded data intoCassandra.
* Provide highly durable and available data by using **S3 data store**, **versioning, lifecycle policies,** and create AMIs for mission critical production servers for backup.
* Maintained the user accounts **(IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS** services in AWS cloud.
* Worked on Managing the Private **Cloud Environment** using **Chef**.
* Well versed with many different concepts of Chef like Roles, Environments, DataBags, Knife, Chef Server Admin/Organizations.
* Used **Chef** to manage configuration on connected server. Developed**CloudFormation** script to automate the EC2 instances with JSON templates.
* Used ANT and MAVEN as a build tools on java projects for the development of build artifacts on the source code.
* Setting alerts on instances using cloudWatch and using auto launch configurations for better performances
* Implemented and designed AWS virtual servers by **Ansible** roles to ensure deployment.
* Configuring of **Virtual Private Cloud(VPC)**and setting up networking of subnets containing servers.
* Troubleshooting errors and fixing them.
* Created detailed AWS **Security groups** which behaves as virtual firewalls that controlled the traffic allowed to reach one or more **AWS EC2** instances.
* Used **MySQL**, **DynamoDB** and **ElastiCache** to perform basic database administration.
* Designed, wrote and implemented **Pythonscript** for taking automatic **EBSsnapshots** of **EC2**instances. Installed/Configured/Managed **chef** Master/Agent.
* Wrote custom **Modules** and **Manifests**, downloaded pre-written modules from **puppet**-**forge**.
* Upgradation or Migration of Puppet community and Puppet Enterprise.
* Developed and **implemented Software Release Management** strategies for various applications in the **agile** process.
* Experience migrating **SVN** repositories to **GIT**
* Worked in **GIT(Github/Gitlab)** implementation containing various Remote repositories for a single application.
* Administered and Engineered Jenkins to **manageweeklyBuild**.

**ENVIRONMENT:SHELL SCRIPTING, PUPPET, CHEF, BIT BUCKET, JIRA, PYTHON, TOMCAT, APACHE, ORACLE, JENKINS, RUBY, CHEF, JIRA, MAVEN, GIT, UBUNTU, CENTOS, AWS, ELASTIC LOAD BALANCER, S3, CLOUD WATCH, IAM, RDS, STORAGE GATEWAY.**

**ACTIVE LOGIC LABS- OVERLAND PARK, KS OCT 2012 – AUG 2013**

**DEVOPS ENGINEER**

**RESPONSIBILITIES**:

* Designing and implementing for fully automated server build management, monitoring and deployment by Using DevOps Technologies like **Puppet**.
* Responsible for design and maintenance of the **Subversion/GIT**, Stash Repositories, views and the access control strategies.
* Performed 24/7 assistance and on call deployments of application codes to production environments.
* Wrote recipes and manifest to configure **chef** nodes and **Puppet** agents.
* Also, experience writing **chef** cookbook and recipes to automate the deployment process and to integrating chef cookbooks into **Jenkins** jobs for a continuous delivery framework.
* Configured and monitored distributed and multi-platform servers using chef.
* Defined Chef Server and workstation to manage and configure nodes.
* Experience writing chef **cookbook** and **recipes** to automate the deployment process and to integrating chef cookbooks into Jenkins jobs for a continuous delivery framework.
* Created **Puppet manifests**, profiles and roles module to automate system operations.
* Imported and managed multiple corporate applications into **TortoiseSVN**.
* Implemented the setup for Master slave architecture to improve the Performance.
* Automated **SQL Scripts, Batch Scripts** Deployment to staging and production Databases with TFS.
* Deployment and management of web services with **Tomcat** and **JBOSS** provided end-user straining for all **Tortoise SVN, JIRA** users to effectively use the tool.
* Assist with maintaining current build systems, developed **buildscripts**, and maintained the source control system.
* Build scripts using **ANT** and **MAVEN** and have also build tools in **Jenkins**in moving from one environment to another.
* Involved in writing **pom files** to establish the code quality tools integration.
* Experienced in authoring **pom.xml** files, performing releases with the **Maven release plugin**, **Mavenization**of Java projects and managing **Maven repositories**. Used **Jenkins** as a continuous integration tool for automation of daily process.
* Build scripts using **ANT and MAVEN** build tools in Jenkins, Sonar to move from one environment to other environments.
* Involved in editing the existing **ANT** (Build.XML) files in case of errors or changes in the project requirements.
* Involved in editing the existing **ANT/MAVEN** files in case of errors or changes in the project requirements.
* Managed Maven project dependencies by creating parent-child relationships between Projects.

**ENVIRONMENT: J2EE, LINUX, MAVEN/ANT, NEXUS, PUPPET, JENKINS, TOMCAT, JIRA, GIT, SHELL SCRIPTS, UNIX/LINUX.**

**PROTAC SOLUTIONS- Hyderabad, Andhra Pradesh. OCT 2010 – SEP 2012**

**DEVOPS ENGINEER**

**RESPONSIBILITIES:**

* Installed and configured Jenkins for Automating Deployments and providing a complete automation solution.
* Created continuous integration system using **Ant**, **Jetbrains**, Team City, full automation, Continuous Integration, faster and flawless deployments.
* Created and maintained users on Active Directory.
* Implemented **Puppet**, **Nagios**and**DevOps** tools.
* Worked on User admin groups, maintained account, monitored system performance using Nagios.
* Made proposals for architecture definition of external application integration on top of BT Stack. **Design**, **Implementation**, **Debugging** and Bug Fixing.
* Worked with Bluetooth Application Integration.
* Involved in development and integration of BT Applications for profiles such as **HSP/HFP**, **OPP** and **HID**.
* Implemented Alertsite for testing, development, automation, and performance management.
* Familiar with most popular scripting, and languages **Python, Perl.**
* Performed setup of clustered environment setups with **Web Sphere Application Server.**
* **W**rote scripts to perform deploys to **tomcat** Webserver and WebSphere App Servers.
* Proposed and implemented branching strategy suitable for **agile** development in **Subversion**.
* Provided end-user training for all Subversion (**SVN**) users to effectively use the tool.
* Deployed the static content into the web servers like **Tomcat**, **iPlanet**, **IBMHTTPServer**. Deployed
* Dynamic content to Application servers like **WebSphere** and **WebLogic**.
* Involved in maintaining and editing **pythonscripts** for application deployment automation.  Involved in editing the existing **ANT/MAVEN** files in case of errors or changes in the project requirements.

**ENVIRONMENT: SUN SOLARIS, UNIX, WINDOWS, CVS, PERFORCE, JAVA, ECLIPSE, ANT, JENKINS, MAVEN, INSTALL ANYWHERE, TOMCAT APACHE APPLICATION SERVER.**

**P V TECHNOSOFT INDIA PVT LTD - Hyderabad, Andhra Pradesh. DEC 2009 – Sep 2010**

**DEVOPS ENGINEER**

**RESPONSIBILITIES:**

* Performed all necessary day-to-day **Subversion/GIT** support for different projects.
* Developed and supported the Software Release Management and procedures.
* Deployed **Puppet**, Puppet Dashboard, and **Puppet DB** for configuration management to existing infrastructure.
* Implemented &maintained strategies utilizing **SubversionGIT.**
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Used **ANT and MAVEN** as a build tools on java projects for the development of build artifacts on the source code.
* Deployed Javaapplications into web application servers like **WebLogic**.
* Connected continuous integration system with **GIT** version control repository and Continually build the check-ins from the developer.
* Used **MAVEN** to automate the build process.Configured and automated **the Jenkins Build jobs for Continuous Integration**.
* Used **Apache Tomcat as application server for deploying the artifacts.**
* Involved in creation and **configuration of Domains, JVM instances in production, QA and UAT environments**.
* Integrated **ANTwithJenkins** to automate the build process as part of continuous delivery.
* Modified ANT scripts to build the **JAR's**, Class files, **WAR** files and **EAR** files.
* Configured Jenkins to implement nightly builds on daily basis and generated change log that includes changes happened over the previous day.
* Created **ANT**, **Shellscripts** for build automation and deployment.
* Provided periodic feedback of status and scheduling issues to the management.
* Experienced in branching, tagging and maintaining the version across the environments using SCM tools like **GIT, Subversion (SVN)** on Linux and windows platforms.

**ENVIRONMENT**:**SUBVERSION, GIT, ANT, MAVEN, JIRA, LINUX, XML, WINDOWS XP, WINDOWS SERVER 2003, WEB LOGIC, MY SQL, PERL SCRIPTS, SHELL SCRIPTS.**

**FIN INFOCOM PRIVATE LTD - Hyderabad, Andhra Pradesh. Jul 2008 – Nov 2009**

**LINUX ADMINISTRATOR**

**RESPONSIBILITIES:**

* Creating virtual host in **apache** web server
* Managing Permission for files and Directories with Chmod, ACL.Managing different kinds of services like **Samba, DHCP, DNS, FTP, NFS, Apache Web Server, Postfix Mail Server.**
* Interfaced with the server team to investigate and troubleshoot verifiers, wireshark, etc.) issues involving Active Directory user and policy configuration,
* Installation and configuration of **samba** server for windows client. NFS Installation and configuration of **NFS** forLinux client
* LVM Installation and configuration of **LVM**. Extending and partition with LVM depending upon the memory need.Configuration of **HTTPS, NTP.**
* Monitoring CPU, memory, physical disk, Hardware and Software RAID, multipath, file systems, network using the tools **NAGIOS 4.0** monitoring.
* Performing failover and integrity test on new servers before rolling out to production. Deployment and Configuration of application on server**Tomcat.**
* Used ANT and MAVEN as build tools on Java projects for the development of build artifacts on the source code.
* Scheduling jobs for user.**RAID** Installation and configuration of RAID
* Creating, increasing and reducing volumes by using **VERITAS** as per the requests.
* Patch and package Management, server health Monitoring and Alerting.
* Installing and Configuring VMware **ESX/ESXi** Host and Guest Servers.
* FTP Installation and configuration of **VSFTPD** 2.6 to download and upload the files for client
* Remote login with **Open SSH**.
* Package management through RPM, YUM configuration
* Managing **DHCP,CUPS,Firewalls and ACL**  and also Managing **Users and Group**

**ENVIRONMENTS: APACHE, NAGIOS 4.0, TOMCAT, SSH, RAID, SAMBA, VERITAS, HTTPS, LVM, DHCP, WEB SERVER, NTP.**