**SAGAR**

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**DEVOPS ENGINEER/SYSTEM ENGINEER**

**PROFESSIONAL SUMMARY:**

* **Over 5years of experience in IT industry with Linux Administration, Building and Deploying the applications by adopting the DevOps culture in Continuous Integration(CI) and Continuous Deployment(CD) with the help of tools like Chef and Puppet by integrating them with Cloud Platforms like AWS.**
* **AWS Certified Solution Architect - Associate**
* Proficiently experienced in Amazon Web Services cloud platform and its features like EC2, S3 , RDS, EBS, ELB, SNI, Auto-Scaling, AMI, IAM, VPC cloud formation through AWS Console and AWS CLI.
* Working experience designing VPC, Route Tables, Direct Connect, Internet Gateway, Security Groups, and CloudWatch Monitoring Alerts.
* Provisioning EC2 instances and have knowledge on all resource areas of EC2 like Instances, dedicatedhosts, volumes, Key pairs, Elastic IP's, Snapshots, Load Balancers and Security Groups.
* Developed AWS cloud formation templates to create custom sized VPC, Subnets, EC2 instances, ELB and Secuirty groups
* Experience on Elasticsearch, Logstash, Kibana for centralized logging and Storage logs with S3 Bucket using Lambda Function.
* Build servers using AWS: Importing volumes, launching EC2, creating security groups, auto-scaling, load balancers in the defined virtual private connection.
* Experience on current migration of data centers to Amazon Cloud and in managing using Route53 of AWS.
* Experience with Chef Enterprise as well as On-Premise, Installed Workstation, Bootstrapped Nodes, 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 & ELB with Chef Cookbooks.
* Installed and configured an automated tool Puppet that include the installation and configuration of the Puppet Master, Agent Nodes and Admin Control Workstation.
* Used AngularJS as development framework to build Single Page Application (SPA).
* ImplementedAngularJS provider injection to handle the request to WebAPI (Build a factory to return each of the RESTful services).
* Experience in Installing Jenkins/Plugins for GIT Repository, Setup SCM Polling for Immediate Build with Maven and Maven Repository (Nexus Artifactory) and Deployment of apps using custom ruby modules through Puppet as a CI/CD Process.
* Configured and deployed Middleware tools through Puppet such as WebSphere Application Server 7.x/8.x, Apache & Tomcat.
* Expertise in Installation, Configuration, integration, Tuning, Backup, Disaster recovery, Upgrades, Patching, Monitoring System Performance, System and network security and troubleshooting of windows Servers.
* Sound knowledge on Hyper-V, ESX and ESXI Architecture, guest OS installation, setting up of VM   
  priorities, Cloning and Snapshots.
* Building new servers daily in legacy VMware from 2003 to 2008, and Hyper-V for applications those are ready to move to new Dynamic Data Center.
* Maintained SWM as Virtual Desktop and as Sessions Management.
* Involved with Virtualization technologies like Installing, Configuring and administering VMware ESX/ESXi and created and managed VMs (virtual server) and also involved in the maintenance of the virtual server. Performed Servers consolidation and virtualization using VMware virtual infrastructure, VMware ESX, Virtual Center, VM tools.
* Administer Active Directory, DHCP, DNS, DFS, WSUS, IIS, Print Server, GPO, SCCM, File Server; Configured RAID, update patch, create image and package software etc.
* Expertise in implementation and maintenance of Apache Httpd, SMTP, DHCP, LDAP, DNS for Security Management & Security trouble shooting skills.
* Involved in the functional usage and Deployment of Applications in Web Logic, Web Sphere and Apache Tomcat Server.
* Experienced in Administration and Managing the source code control of multiple development efforts using Clear Case, Subversion, TFS, Git and SVN version control tools.
* Experience in continuous integration technologies Bamboo and Jenkins. Designed and created multiple deployment strategies using Continuous Integration and Continuous Development Pipelines and configuration management tools with remote execution to ensure zero downtime and shortened deployment cycles via automated deployments.
* Expertise in using builds tools like MAVEN and ANT for the building of deployable artifacts such as jar, war and from source code. Application Deployments & Environment configuration using Puppet and Chef.
* Expertise in writing Bash Scripts, Pearl Scripts, Python programing for deployment of Java applications on bare servers or Middleware tools.
* **Experience in monitoring and management tools such as Nagios and Splunk for Resource Monitoring, Network Monitoring, Network Bandwidth, Hard drive status and Log Trace Monitoring.**
* Experienced in Querying RDBMS such as Oracle, MY SQL and SQL Server by using SQL for data integrity.
* Participated in entire Software Development Life Cycle (SDLC) including Requirement Analysis, Design, Development, Testing, Implementation, Documentation and Support of software applications.

**TECHNICAL SKILLS:**

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| Operating System | RED HAT LINUX 5.X/6.X/7.X, WINDOWS SERVER 7/XP/2008  /2012, UBUNTU 10.X, Solaris9,10 |
| Source Code Management | Svn , Git , GitHub |
| Build and Automation | Chef, Puppet, Salt Stack, Jenkins, Ant, Maven |
| Web/App Servers | Apache(httpd), Apache-Tomcat, Apache Http Server |
| Scripting Languages | Bash, Ruby, Python, Perl |
| Monitoring and Alerting | Nagios, Kibana, AWS Cloud watch,Splunk |
| Networking | DNS, DHCP, TCP/IP, SMTP, LDAP |
| Databases | Oracle, My SQl , Mongo DB, No SQl |
| Cloud Platforms | Amazon Web Services |
| Virtualization Tools | VMWare Vsphere , ESX 5.X/6.0 , Hyper-V |
| Web Technologies | HTML, JQuery, JavaScript, Angular |
| Cloud Infra Structure | AWS : EC2, IAM, Elastic BeanStalk, Elastic Load Balancer(ELB), RDS(My SQL), Dynamo DB, S3 , Glacier, SQS, SNS, Cloud Formation, Route 53,VPC, CLI, Auto Scaling, Cloud Watch, Open Stalk, Lambda |

**PROFESSIONAL EXPERIENCE:**

**Citizens Bank, Cranston, RI Jan 2015 to Till date**

**Position: Devops/AWS Engineer**

**Responsibilities:**

* Configured and maintained Linux virtualization in test and production environment using VMware vSphere Client and HPSA for Red hat Linux OS installation.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/Packages using Chef.
* Installing, configuring and administering Jenkins Continuous Integration tool on Linux machines along with adding/updating plugins such as GIT, ANT, and Chef.
* Created Chef driven configuration of user accounts and Installed packages on Chef only when necessary by managing the attributes and also involved in setting up builds using Chef as a configuration management tool.
* Used Chef and other configuration management tools to deploy consistent infrastructure code across multiple environments.
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our environments.
* Provisioned and maintained Amazon AWS server provisioning via chef. This included the provisioning of the instances, ELBs, DNS. Also, contributed code to the Jenkins-aws module on github as part of this.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Experience and NUnit to test each part of application and managed application with Batarang while coding in Angular JS.
* Worked on the migration from VMware to AWS, and used Chef to automate the infrastructure in AWS by creating EC2, S3, RDS, VPC and Route 53.
* Experienced in Unit Testing, applied Microsoft Unit Test Framework and Nunit for the MVC, Web API controllers and Jasmine to test AngularJS functionality.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Developed build scripts using ANT and MAVEN as the build tools for the creation of build artifacts like war or ear files.
* Installed and configured Jenkins, Installed plug-in, configured security, created a master and slaves for implementation of multiple parallel builds.
* Creating repositories, branches, tags in GIT and assist the developers to fix merging issues and Creating Local, Virtual Repositories in Artifactory for the project and release builds, repository management in Maven to share snapshots and releases of internal projects using JFrogArtifactory tool.
* Deployed Enterprise Application Archive (EAR), Web Application Archive (WAR), JSP's, and Servlets in Staging and Production.
* Developed python scripts to automate applications migration and monitor application health during migration.
* Virtualized the servers using the Docker for the test environments and dev-environment needs. Used Docker containers for eliminating a source of friction between development and operations.
* Rebase/Merged Projects Streams with Release Streams after the frozen/production release and resolved the conflicts during the rebasing.
* Installed, Configured, Managed Monitoring Tools such as Splunk, Nagios for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Coordinate Releases from Dev to Production. Communicating with Developers, Testers, Managers, UNIX, Network teams and DBA teams for successful Release.
* Attended daily stand up meetings, bug-scrub meetings, Sprint planning meetings and Weekly release health check-up meetings as best practices of agile environment.

**Environment:** GIT, SVN, Ant, Maven, Gradle, WebSphere, Artifactory, Jenkins, UrbanCode Deploy, AWS, RAD, Shell, Quality Center, Unix, Linux, Windows, Java/J2EE

**Berkeley Technology Services, Urban dale,lowaJun 2014 to Dec 2015**

**Position:Devops/Cloud Engineer**

**Responsibilities:**

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* Installed and configured an automated tool Puppet that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation.
* Deployed Puppet, Puppet Dashboard, and Puppet DB for configuration management to existing infrastructure.
* Created custom modules and manifests in Puppet using Facts, Resource Types and Provider to configure, install and run various applications and customized puppet scripts to perform further provisioning for entire stack.
* Managed Amazon Web Services like EC2, S3 bucket, RDS, EBS, ELB, Auto-Scaling, AMI, IAM through AWS Console and API Integration with Puppet Code.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using puppet.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web Applications and database template.
* Implemented roles and groups for users and resources using AWS Identity Access Management (IAM) and also managed network security using Security Groups and IAM.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Used various built-in Angular directives such as filter, ng-show and ng-repeat to implement components such as filter and grid view.
* Implemented Client side validation using AngularJS Custom Form Validation with ng-show and ng-message.
* Implemented Jenkins Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts and services to Docker, and Red Hat.
* Python scripts to automate AWS services which include web servers, ELB, Cloud front distribution, database, EC2 and database security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Built and deployed Java/J2EE to a web application server in an Agile continuous integration environment and also automated the whole process.
* Deployed LDAP for centralized authentication and developed Shell/Batch/Python Scripts for automation purpose.
* Developed Python and Shell Scripts for automation of the build and release process.
* Involved in writing and editing the existing ANT (Build.XML) files in case of errors or changes in the project requirements.
* Created branching & tagging strategy to maintain the source code in the GIT repository and Coordinated with developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control.
* Managed SVN repositories for branching, merging, and tagging and Managed Users and Groups in SVN and involved in troubleshooting client spec issues and user issues.
* Implemented Maven builds for creating JAR'S, WAR'S and EAR'S. Managed the artifacts generated by Maven in the Nexus repository.
* Designed and deployed best SCM processes and procedures and supported off-shore team by advising on best practices.
* Created Deployment notes along with the Local SCM team and released the Deployment Instruction to application support.
* Used tracking tool JIRA to detect, organize and giving priorities to the issues and used it for assigning permissions to users and groups for the projects.
* Supported and developed tools for integration, automated testing and release management. Verified if the methods used to create and recreate software builds are consistent and repeatable.
* Followed up with the Test Team and Development Team and Posted the build on time and followed it up the testing team on posted builds.

**Environment:** UNIX native tools (tar/dd). sar, prof, vmstat, iostat, netstat, LVM, Vsphere 4.x. & 5.x. Solaris, CentOS 5.x/6.x and Redhat Linux. RPM and YUM. EMC Powerpath, VMAX migration

**Coupon Trade, Chicago, ILJan 2013 to May 2014**

**Position: Build & Release Engineer/Windows Administrator**

**Responsibilities:**

* Installation, Configuration and Administration of VMware ESXi 5.0/5.1/ Virtual Centre 5.0/5.1, vCenter Servers as well as upgrading to ESXi 5.5/Virtual Centre 5.5.
* Installation, Configuration and Administration of VMware vSphere4.x, 5.x/vCenter Servers and Deploying HA & DRS Cluster, Managing cluster resources.
* Managing ESXi 5.5 clustering hosts (8 cluster group, 200+ hosts and 3500+ VMs) in multiple data centres.
* Migrating virtual machine configuration files and virtual disks from one Data store to another Data store Customizing VM's (Memory, hard disk, NIC). Analyzing log files, Resources utilizing monitoring.
* Configured and deployed VMware SRM for Disaster Recovery/ Business Continuity.   
   Involved in VMware Update Manager to install & troubleshoot patches on ESX hosts and virtual machines.
* Provision, build, install and configure and support of Windows 2008/2008R2/2012 Servers, upgrading Windows Server 2003 to Windows 2008 and 2012 on both physical and virtual machines to ensure server compliancy as part of the build process.
* Managed SQL Servers databases and participated in discussions with Oracle administrators.   
   Used MS Server Exchange 2008/2010/2013 Mailbox cmdlet to search users mailboxes for messages to either copy or delete emails. Used Discovery mailbox to stop deleting important mails with the help of PowerShell.
* Implemented AngularJS  Validation to validate user inputs and to create user-friendly web application
* Run all Exchange server roles, including the mailbox server on vSphere.
* Creating standard process for advanced group policy deployment management as well as Active Directory users and group's management.  Administration of user and group accounts and providing appropriate rights to user accounts according to their requirements.
* Troubleshoot network issues between Distributed vSwitch, Layer 2 switches and resolved slow performance between SAN network and VM networks.
* Hands on experience with working on Service now ticketing system.

**Environment:**VMware ESX 6/5.5/5.1 VSphere 4.0, 5.0, 5.5 & Windows Server ProLiant Servers & Dell Hardware (Rack and blade servers), NetApp FAS , brocade DS 5300, Flex pod, SCOM, Oracle linux5.4, Symantec NetBackup, Active Directory and vRealize automation.

**Sonata Software, Hyderabad, India Feb2011 to Dec 2012**

**Position: Build and Release Engineer**

**Responsibilities:**

* Worked as a system administrator on Red Hat-Linux and Windows Environment.
* Worked with installation, configuration, tuning, security, backup, recovery and upgrades of Linux (Red Hat, Ubuntu).
* Worked on patching Linux servers to latest versions, and installing RPM packages using Satellite server, Yum Server and up2date Command line.
* Performed upgrade deployments to services in production using procedures designed to minimize downtime.
* Installing & Configuring LDAP (Server & Client), creating admin, migrating users to LDAP server and configuring database to LDAP server.
* Created and configured RAID in Red hat-Linux while Implementing Disk Quotas and Managing ACLs per user and groups as per company requirement.
* Expert in user management via creating and managing users and groups in Red Hat.
* Specialized in Configuring Physical Volumes, Volume groups, logical volumes and file systems on Red hat, Ubuntu.
* Installed and configured network based services such as NFS, DHCP, DNS, FTP, SFTP, SSH.
* Worked with product deployment in servers, mail servers, monitoring tools & shell scripts, networking, SQL/MySQL.
* Expertise in implementation and designing of Disaster Backup and Recovery Plan.
* Experienced in working with different teams such as Network Engineering, Database team & Application teams to resolve the issues and provide customer satisfaction.
* Experience in automating jobs using Shell scripts.
* Installing and configuring for Oracle, Sybase, SQL Server, and Informix Databases.
* Expert in configuring and troubleshooting TCP/IP network services.
* Implementation of Mail Servers for Organizations.
* Ensure that back-ups are taken periodically.
* Creating the release responsible as instructed by the PM.
* Responsible for the build and release management process.
* Responsible for automated build scripts and build issues.
* Coordinating with development teams to perform builds and resolve build issues.
* Expertise in System administration, System planning, co-ordination, commissioning, setting up security hierarchy and capacity planning.
* Ability to work as a team member or as an individual and confident in serving the best results.
* Installation/Maintenance of Hardware/Software in Production, Development & Test Environment as an integral part of the Unix/Linux (RHEL/CentOS) Support team.
* Performed upgrade deployments to services in production using procedures designed to minimize downtime.
* Developed and improved upon Puppet recipes and rules for efficient and reliable deployment and maintenance.

**Environment:** Ubuntu, ANT, Maven, Puppet, Apache, Tomcat, RAIDS, CentOS, RPM, YUM, Shell Scripts.