**Sai Pavan**

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* 7+ years of experience in Software Configuration Management, Build/Release Management and Change/Incident Management.
* Worked on Migration Strategy and developed a POC migrating VMware/On-premise datacenter to AWS utilizing, AWS EC2, S3, RDS, VPC, and Direct Connect.
* Involved in configuring Elastic Load Balancers with Auto scaling to handle high traffic loads.
* Created and wrote shell scripts (Bash), Python for automating tasks.
* Experience in development and configuration experience, LAMP setup on RHEL with software

provisioning tools like Chef, Puppet and Ansible.

* 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.

* Experience in udeploy providing continuous deployment and to facilitate rapid feedback and continuous delivery in agile development while providing the versioning and approvals needed in production
* Wrote custom monitoring and integrated monitoring methods into deployment processes to develop self-healing solutions using Nagios, Graphite and Zabbix, cloudwatch etc.
* Performed Servers consolidation and virtualization using VMware virtual infrastructure, VMware

ESX, Virtual Center, VM tools.

* 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.
* Deployed micro services, including provisioning AWS environments using Ansible Playbooks and Provisioned load balancer, auto-scaling group and launch configuration for micro services using Ansible.
* Experience setting up and maintenance of On-premise AppDynamics Controller, EUM and Event Services for large scale environment with 2000 plus agent licenses
* 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 cause analysis findings
* Lead and contribute in the "DevOps" culture and delivery practice to build, maintain, and continuously improve the infrastructure and servers currently operating on AWS and Cloud Foundry
* We gone with agile methodology, to risk free from customers with immediate feedback while

going with green field implementation approach for entirely new environment.

* Knowledge of Routers and Switches, Subnet, VLAN, TCP/IP, VPN, OSI model and Firewall.
* Strong ability to troubleshoot any issues generated while building, deploying and in production

support.

**TECHNICAL SKILLS:**

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| *Bug Tracking Tools* | JIRA, Fisheye, Crucible, Rally, Remedy, IBM ClearQuest, Bugzilla, HP Quality Center |
| *Build Tools* | Ant, Maven, Make, Grunt, Gradle, TFS |
| *Web Servers* | JBoss, Apache Tomcat, WebLogic, WebSphere |
| *ContinuousIntegration Tools* | Jenkins, Bamboo |
| *Configuration Management* | Chef, Puppet, SaltStack, Ansible |
| *Containers* | Docker, Vagrant, Kubernetes |
| *Operating Systems* | RHEL/CentOS 5.x/6.x/7, Ubuntu/Debian/Fedora, Sun Solaris7/8/9/10, Windows Server 2003/2008/2012 |
| *Scripting Languages* | Shell, Bash, Perl, Ruby and Python scripting |
| *Database Systems* | 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, AppDynamics. |
| *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 Date**

**DevOps/AWS Engineer**

* 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 migrated from current on premise infrastructure to AWS cloud. Assumed implementation as a greenfield implementation approach and followed Agile methodology for entirely new environment.
* ForGreenfield implementation, we faced problems with legacy systems and we changed the infrastructure as a cloud from scratch.
* Setup and built AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Managed 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.
* Used udeploy for designing the workflows and deploying the articrafts to various environments of the udeploy agents, and maintained the versioning of the articrafts.
* 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.
* Implemented a Continuous Delivery framework using Jenkins, Maven in Linux environment.
* Implement Jenkins integrations with release management software/Deployment tool such as Rundeck.
* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system.
* Used Jenkins jobs to deploy customer facing applications to Pivotal Cloud Foundry for QA testing and production deployment
* 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.
* 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.

**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 – Jan 2016**

**DevOps/AWS Engineer**

* Maintained and administered GIT source code tool. Created Branches, Labels and performed Merges in GIT.
* Designed and developed new back-end services, maintaining and expanded our Amazon Web Services infrastructure, and provided mentorship to others on my team.
* Implemented and 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.
* Maintained and tracked inventory using Jenkins and set alerts when the servers were full and needed 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.
* Wrote Ansible playbooks to launch AWS instances and used Ansible to manage web applications, configuration files, used mount points and packages and Worked on playbooks for Ansible in YAML scripting
* Deploying multi-stack software builds to various environments (VMs, Cloud instances, etc.) using automation tools like Ansible and Chef, minimizing downtime.
* Deployment and implementation of Chef for infrastructure as code initiative.
* Used Configuration Management Tools like Chef for automation of infrastructure related components and applications like Tomcat/Apache/Nagios/LDAP/zookeeper, SSH, NTP and DNS configurations.
* Worked with Terraform to create AWS components like EC2, IAM, VPC, ELB, Security groups
* Modeled the structure for multi-tiered applications to deploy each tier.
* 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.
* To understand application architecture/flow map and replicate it in AppDynamics
* Setting up Custom Dashboards, health policies and alerts based on application team's requirement
* To baseline all configurations in non-prod environment before implementing AppDynamics to production
* Handle issues with AppDynamics controller, agents or configurations

**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, JIRA, Ruby, MySQL, Ansible, Mongo DB, BASH & KORN Shell, WebSphere, Splunk, Kibana.

**Client: Legacy.com, Naperville, Chicago, IL May 2013 – Aug2014**

**DevOps Engineer**

* 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 user interface components using HTML5, CSS3, JavaScript, AJAX, jQuery and 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.
* Used AWS services to make cloud as infrastructure. Utilized, AWS EC2, S3, RDS, VPC, and Direct Connect.

**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 – Apr 2013**

**Build & Release Engineer**

* Managed the Source Code to have latest version of code available from the production releases.
* Created and maintained Subversion Branching, Merging and Tagging across each Production release and performed builds using Hudson Continuous Integration using Maven Scripts.
* Assessed 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 SharePoint on time.
* Coordinated 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.
* Performedbuilds in Development and Testing environments where ANT Scripts were used to generate build packages for Development Environments and Build Management tool Continuum was used for placing Maven Snapshot builds.
* Used 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 PvtLtd., Hyderabad, India Jul 2010 – Aug 2011**

**Linux/UNIX System Administrator**

* Worked as a System Administrator for UNIX and Linux servers.
* Configured RedHat Linux 3.x & Solaris 8,9 for production, staging and test environments.
* Installed and configuredDHCP, 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 RedHat 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.
* Installed and setup Oracle9i and WebSphereon Linux for the development team.
* Implemented Virtualization using VMWare in Linux on HP-DL585.
* Linux kernel, memory upgrades and swaps area. RedHat Linux Kickstart Installation.
* System performance monitoring and troubleshooting in Solaris Environments 8 & 9.
* Provided logical design and architecture for the enterprise storage network.
* Created users, managed user permission, maintaineduser &file system quota in RedHat Linux, Solaris and Linux.
* User management, security planning and implementation, backup and restoremanagement.
* 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.

**Environment:** UNIX, Veritas, POP3, RedHatLinux 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.

**EDUCATION QUALIFICATION:**

Bachelor of Technology | Jawaharlal Nehru Technological University, Kakinada