

Srikanth Perne

DevOps Engineer - Capital One

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Sponsorship required to work in the US

WORK EXPERIENCE

DevOps Engineer

Capital One - Plano, TX - April 2016 to Present

- DevOps Engineer responsible for Continuous Integration and Continuous delivery in DEV, QA and Production environments.
- Designed and deployed AWS solutions using EC2, S3, EBS, VPC, IAM, Elastic Load Balancer, Auto Scaling groups, Route 53, AMI, Cloud Front, Cloud Trail, Cloud Watch.
- Managed Virtual servers (Redhat Linux) on AWS EC2
- Led OpenDJ infrastructure update from shell scripts to ANSIBLE
- Converted shell scripts to ANSIBLE Playbooks
- Created Shell scripts for automation of build and release process.
- Automated Continuous Build and Deploy Scripts for Jenkins Continuous Integration tool.
- Created monitors, alarms and notifications for EC2 hosts using Cloudwatch.
- Used Chef as a Configuration Management tool managing Private Cloud Environment
- Used Jira as ticket tracking and work flow tool

Responsibilities:

Environment: Jenkins, Redhat Linux, Shell scripting, Nexus, ANSIBLE, Chef, Amazon EC2, Amazon S3, Elastic Block Storage(EBS), Elastic Load Balancer(ELB), Snapshots, Amazon RDS, Auto Scaling, Cloud Front, Cloud Trail, Cloud Watch, Amazon VPC, Route 53, IAM, Amazon Machine Image(AMI), NAT Instance, Security Groups, NACLs, Glacier, RRS, SWF, AWS CLI, UNIX, JIRA, OpenDJ, OpenAM, Agile, Scrum.

AWS DevOps Engineer

Airbnb, Inc - San Francisco, CA - March 2014 to March 2016

Responsibilities:

- Technical lead to align processes and tools such as branching, source control structure, dependency management, Linux/Windows hybrid build infrastructure, code review, and check-in policies developed and instrumented by DevOps teams globally.
- Managed Virtual servers (Ubuntu Linux and Windows) on AWS EC2 using Open-Source Chef Server.
- Designed and deployed AWS solutions using S3, EC2, RDS, EBS, Elastic Load Balancer, Auto Scaling groups, OpsWorks.
- Optimized volumes and EC2 instances, and created multiple AZ VPC instances.
- Used IAM to create new accounts, roles and groups.
- Configured S3 versioning and lifecycle policies to backup and archive files in Glacier.
- Configured S3 to host static web content.
- Deployed cloud stack using AWS OpsWorks.
- Created Data Warehouse Data Model to store atomic level data and summarized data.
- Performed Dimensional Data modeling and created Star Schema and Snow Flakes Schema data model to meet OLAP needs.
- Configured Elastic Load Balancers with EC2 Auto-scaling groups.

- Configured and monitored distributed and multi-platform servers using Chef.
- Defined Chef Server and workstation to manage and configure nodes.
- Developed Chef Cookbooks to manage systems configuration.
- Supported 2000+ AWS Cloud instances. Also familiar with Amazon Cloud Command line Interface (CLI) management.
- Worked on User administration setup, maintaining account, Monitor system performance using Nagios and Tivoli.
- Configured and maintained Lamp stack on production and staging servers. Wrote Perl scripts at server side for web support of Lamp.
- Encrypted EBS volumes via KMS service.
- Created monitors, alarms and notifications for EC2 hosts using Cloudwatch.
- Set up ElastiCache using memcached.
- Migrated applications to the AWS cloud.
- Implement and maintain the monitoring and alerting of production and corporate servers/costs using cloud watch.
- Used Cloud Trail to monitor API calls within VPC environment.
- Work with Developers in using Chef as a Configuration Management tool, managing users, resources and deploying servers.
- Adhere to Amazon Web Services' best cloud practices.
- Provide on-call support outside of normal scheduled business hours.

Environment: Ant, Maven, SVN, Jenkins, Linux, Solaris, Java, Websphere, Shell scripting, WLST, Nexus, Amazon EC2, Amazon S3, Elastic Block Storage(EBS), Elastic Load Balancer(ELB), Snapshots, Amazon RDS, Auto Scaling, Cloud Front, Cloud Trail, Cloud Watch, Amazon VPC, Route 53, Elastic Beanstalk, Elastic IP, IAM, Amazon Machine Image(AMI), NAT Instance, Security Groups, NACLs, Glacier, RRS, SWF, AWS CLI.

DevOps Engineer

Kongsberg Oil & Gas Technologies, Inc - Houston, TX - August 2012 to February 2014

Responsibilities:

- Worked for DevOps Platform team responsible for specialization areas related to Chef for Cloud Automation.
- Developed installer scripts using Ant, Python and UNIX for various products to be hosted on Application Servers.
- Troubleshoot, Build and Deploy issues with little downtime.
- Organized and coordinated Product Releases; worked closely with Product Development, QA, Support across global locations to ensure successful releases.
- Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.
- Worked on Managing Private Cloud Environment using Chef.
- Implemented Chef Cookbooks for OS component configuration to keep AWS server's template minimal.
- Developed automation framework for application deployments to cloud environments.
- Managed and optimized Continuous Delivery tools like Jenkins.
- Installed, Configured and Administered Hudson/Jenkins Continuous Integration Tool.
- Automated Continuous Build and Deploy Scripts for Hudson/Jenkins Continuous Integration tool.
- Wrote ANT and MAVEN Scripts to automate build processes.
- Provided ANT build script for building and deploying applications.
- Integration of automated build with deployment pipeline. Currently installed Chef Server and clients to pick up the build from Jenkins repository and deploy in target environments (Integration, QA, and Production).
- Provided stable build environments for product development.
- Worked on NoSQL database Cassandra.

- Branching, Tagging, Release Activities on Version Control Tools: SVN, GIT.
- Developed custom scripts to monitor repositories, server storage.
- Member of the Technical Design team, Build and Release Module for Development of new products.
- Automated local dev environment using Vagrant/chef-solo.
- Automated cloud deployments using Chef, Python (boto & fabric) and AWS Cloud Formation Templates.
- Provided UNIX scripts for deploying and building the system.
- Document release metrics, software configuration process.

Environment: Java, Eclipse, Tomcat, Apache, Toad, Git, Oracle 12c, Jenkins, Maven, Python, Ruby, Chef, JIRA, Art factory, Linux, Ubuntu, CentOS, AWS, AWS Cloud Formation Templates, Cassandra, AWS RDS, AWS Cloud Watch, Ruby, Chef-solo/server.

Sr. Build and Release Engineer

T-Mobile - Seattle, WA - July 2010 to August 2012

Responsibilities:

- Developed and implemented Software Release Management strategies for various applications according to agile process.
- Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with releases.
- Imported and managed multiple corporate applications into Subversion (SVN).
- Involved in all projects that move to production and work closely with the Data Center, Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes.
- Provided end-user training for all Subversion (SVN) users to effectively use the tool.
- Built and Deployed Java/J2EE to a web application server in an Agile Continuous Integration environment and also automated the whole process.
- Created and maintained Shell/python deployment scripts for TC Server/Tomcat web application servers.
- Shell scripts for automation of build and release process.
- Modified existing MAVEN files in case of errors or changes in project requirements.
- Design applications on AWS taking advantage of disaster recovery design guidelines.
- Responsible for Application deployment and Data migration on AWS.
- Experience deploying and operating AWS, specifically VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation and Cloud Watch using the AWS console and AWS CLI.
- Developed Cloud Formation Scripts for AWS Orchestration.
- Performed periodic system audits on all environments to ensure that only controlled versions of software reside across all environments.
- Responsible for development and maintenance of processes and associated scripts/tools for automated build, testing and deployment of products to various developments.
- Managed Maven project dependencies by creating parent-child relationships between projects.
- Installed, Configured and Managed Jenkins CI Automation.
- Responsible for User Management, Plugin Management, Build/Deploy Pipeline Setup and end-end Job setup of all projects.
- Used Jenkins as a continuous integration tool for automation of daily process.
- Installed/Configured and Managed Nexus Repository Manager and all repositories.
- Created release process of artifacts.
- Coordinated with development and third party teams to perform PCI penetration testing and Vera code scanning every year on source code.
- Used Puppet to make sure all Jenkins slaves are in sync.
- Performed upgrades to applications using Puppet manifests.

Environment: Subversion (SVN), Jenkins, Java/J2EE, Ant, MAVEN, Puppet, TC Server, Tomcat, Python Scripts, Shell Scripts, Run-deck, XML, UNIX, Linux, Putty, Windows 7, Oracle.

Build and Release Engineer

Southwest Airlines - Dallas, TX - December 2009 to June 2010

Responsibilities:

- Developed Build and Deployment processes for Pre-production environments.
- Used Subversion as Source code repositories.
- Managed SVN repositories for branching, merging, and tagging.
- Developed Shell/Perl Scripts for automation purpose.
- Resolved merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads.
- Responsible for designing and deploying best SCM processes and procedures.
- Worked closely with Software developers and DevOps to debug software and system problems.
- Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
- Used AGILE method to develop a build and also ANT as a build tool.
- Involved in writing parent pom files to establish code quality tools integration.
- Installed, configured and administered Jenkins CI tool on Linux machines.
- Implemented setup for Master slave architecture to improve Jenkins performance.
- Used Jenkins, Build forge for Continuous Integration and Deployment into Tomcat Application Server.
- Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
- Supported and developed tools for integration, automated testing and release management.
- Verified methods used to create and recreate software builds for consistency and redundancy.
- Involved in research of the project application architecture to support/resolve build, compile, and test issues/problems.
- Releasing code to testing regions or staging areas according to the schedule published.
- Used Jira as ticket tracking and work flow tool.

Environment: SVN, Shell/Perl Scripts, SCM, Jenkins, Build Forge, Maven and ANT Tomcat, Jira

Linux Systems Administrator

AT&T - Middletown, NJ - December 2008 to November 2009

Responsibilities:

- Designed EC2 instances architecture to meet high availability application architecture.
- Developed Cloud Formation scripts to build on demand EC2 instance formation.
- Created Amazon Cloud Architecture. Supported current migration of Data Center to Amazon Cloud.
- Configured and managed day-to day systems administration and maintenance of AWS cloud servers EC2 and RDS.
- Utilized AWS CLI to automate backups of ephemeral data-stores to S3 buckets and created nightly AMIs for mission critical production servers as backups.
- Designed roles and groups using AWS Identity and Access Management (IAM).
- Configured Amazon VPC environment.
- Implemented and maintained Monitoring and alerting of production and corporate servers/storage with CloudWatch.
- Good understanding of ELB, general networking principles, firewalls, routing technologies and DNS (Route 53).
- Built and configured virtual machines, ESXi; use VMware/VSphere 5.1/5.5 to monitor servers, web applications.

- Used Puppet for automations and scheduling automated jobs.
- Partnered with platform data and app teams to ensure architecture and infrastructure meet business requirements.
- Managed network security using load balance, security groups and NACLs.
- Experienced with leading team in Agile/Scrum environment.
- Managed Swap Space, Disk utilization and CPU utilization.
- Provided administrative and technical support to critical application servers: Troubleshooting, performance tuning and monitoring production servers with tools like Nagios, New Relic and Linux commands.
- Configured and customized new and existing software products, created and maintained software file security, developed automatic routines to enhance production tasks eliminating manual intervention tasks.
- Experienced in using essential tools for handling files, directories, command-line environment and documentation.
- Experienced in configuring local storage file systems within partitions and logical volumes.
- Deployed, configured and maintained systems, including software installation, updates and core services, patch management support and application verification.
- RPM and YUM package installations, patch and other server management
- Created physical volumes, volume groups and logical volumes.
- Experienced with user management and creation, group management and account creation, security, privileges, disk space and process monitoring in Red Hat Linux and CentOS

Environment: Nagios, Red hat Linux, Ubuntu, CentOS, Solaris, VMware, VSphere, Virtual center, WebSphere, Amazon EC2, Puppet, Amazon RDS, Cloud Watch, Amazon VPC, IAM, New Relic, Security Groups, Network, Route 53, NACLs, ELB, Agile, Scrum, AWS CLI.

Weblogic Administrator/ Application support

Merck & Co - May 2008 to November 2008

Responsibilities:

- Installed WebLogic 7.x/8.X/9.2 application server on Sun OS 5.8 and development, staging and production environments.
- Upgraded WebLogic servers with necessary patches and Service Packs.
- Created startup and shutdown scripts for servers.
- Developed JDBC code for accessing DATA from database.
- Created Connection Pools, Data Sources, JMS servers, JMS Destinations.
- Developed framework classes for the above mentioned advisor.
- Performed Business validations using JavaScript.
- Designed and developed two types of Session EJBs.
- Configured multiple Weblogic domains.
- Configured and managed server instances on different machines and clustered all managed servers.
- Configured WebLogic server with iPlanet Web server through WebLogic's proxy plug-in.
- Deployed different application War files, EJB jar files and Enterprise Application Archives (ear) on Weblogic 6.1
- Designed HTML, JSPs for front-end templates.
- Developed Servlets for main business logic implementation.
- Designed and developed Persistent Entity EJBs.

Environment: Red Hat Linux 8,9.0, Sun Solaris 8/9, Samba, Sun fire (210, V240, V440, V490, V880, 1280) Servers, HP DL-320/360/380/560/580L servers, Web sphere, Apache 2.x/3.x, Oracle 8/9i/RAC, EMC storage devices, Tivoli Storage Manager 5.x.

EDUCATION

Bachelor of Engineering in Engineering

Andhra University College of Engineering - Visakhapatnam, Andhra Pradesh

ADDITIONAL INFORMATION

Operating Systems

Linux (Red Hat 4/5/6, SUSE), Solaris [...] HP-UX 11.0, 11.11, [...] Ubuntu, Fedora, CentOS, Windows NT, [...] Macintosh, Xen Server, Xen Apps.

Programming Language & Configuration Tools C, Bash, Python, Perl Scripting, Java, HTML, VBA, Ruby, Visio, JMP, Puppet, Chef & Salt Stack, Jenkins, Bamboo, Ant, Maven.

Cloud Open Stack, AWS (EC2, S3, CloudWatch, RDS, Elasti Cache, IAM), Microsoft Azure.

Hard Ware

Cisco UCS C200, C250, Sun Fire [...] Sun-Enterprise 100, Sun Fire F15K, Sun Fire 25K, T2000, M5000, Ultra Enterprise [...] SPARC sun4c/sun4u, Dell Blade Servers, HP Blade Servers, Sonic & Cisco pix firewall

Data Base Oracle 10.x, MySQL 5.0.2, SQL Server 2005, Mongo DB.

Networking TCP/IP, NIS, NFS, DNS, DHCP, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP.

Cloud AWS (EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, CloudFormation AWS Config, S3, Cloud Trail, IAM) Open Stack, Microsoft Azure.

Web Technologies

Tomcat, APACHE 2.x, 3.x, F5 Load Balancers, Web Logic (8/9/10) & Web Sphere 4.0/5.0, Net Scape/iPlanet Server, MQ Series, Cluster Server 3.5 & 4.1, Sun Cluster 2.x & 3.x, Nagios.

Protocols TCP/IP, UDP, RIP, OSPF, EIGRP, IGRP, SNMP, SMTP, TELNET.

Middleware File Systems & Virtualization WebLogic, WebSphere and Tomcat, UFS, VxFS, ZFS, ext, ext2, ReFS, Xen Virtualization, VMware, VSphere.

Web Server Sun One and Apache.

Methodologies Agile, Scrum, Waterfall.