**AKHIL PATTIPATI**

**Devops Engineer**

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**PROFESSIONAL SUMMARY:**

**8 plus years of experience in IT industry, with strong experience in the fields of DevOps Engineer, Build and Release Engineer, AWS Cloud Engineerand System Adminusing various automation tools to oversee the end-to-end Design, Develop and Deployment process.**

* Skillful in setting up and maintaining application servers and web servers.
* Experienced in downloading code from **Git** and **SVN** created branches, tags and maintaining versions across the environments in some special cases with permission.
* Integrating and Automation of Version Control Systems for source code management. Worked on **GIT, SVN** for Maintaining branching model and security.
* Experience in setting up the continuous integration and continuous deployment (CI and CD).
* Configured and maintained **Jenkins** to implement the CI process and integrated the tool with **Maven** and **Ant** to schedule the builds.
* Installing and configuring Continuous Integration and Continuous Delivery application JENKINS. Proficient in defining build pipelines in addition to creating and maintaining multiple jobs.
* Installed new software releases, system upgrades and resolve software-related problems.
* Hands-On experience in using **Nexus** and **Artifactory** repository managers for Maven/ANT builds.
* Proficient in using Configuration Management tools such as **Puppet**, **Ansible**and **chef**on windows and Linux machines. Created puppet manifest file for puppet and cookbooks for chef to configuring applications on the client nodes.
* Involved in**integration** had versed with Application program interface (**API)** is made to manage software applications.
* Worked on User administration setup, maintaining account’s, and monitor system performance using **Nagios**.
* Skillful in setting up and maintaining application servers and web servers.
* **Terraform** used to setup the physical infrastructure running the schedulers as well as provisioning onto the scheduled grid.
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations and plug-ins for the JIRA bug/issue track.
* Worked with the**Azure**for building, testing, deploying, and managing applications and services through the network.
* Implemented AWS solutions using **EC2, S3, RDS, Elastic Load Balancer**, and **Auto Scaling** groups, Optimized volumes and EC2 instances.
* Perform system monitoring and maintain Logs using **Cloud Watch.**
* Reduced management complexity without restricting control by using **Elastic Beanstalk.**
* Configured AWS **IAM** and Security Group in Public and Private Subnets in **VPC.**
* Good Knowledge in **Shellscripting,Python,** and **Ruby scripting**.
* Knowledge on Dev Environment and Experience in working across **QA,UAT**, **PROD** systems in addition to managing requests and tickets for IT process management through Remedy ticketing tool.
* Ability in managing all aspects of the software configuration management process including code compilation, packaging deployment, release methodology and application configurations.
* Strong ability to troubleshoot any issues generated while building, deploying and in production Environment.

**TECHNICAL SKILLS:**

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| --- | --- |
| Configuration management tools | Chef, puppet, Ansible |
| Continuous integration tools | Jenkins, pipeline |
| Operating systems | Centos, Ubuntu, Redhat enterprise Linux and windows. |
| Databases | MaraiaDB, and MySQL |
| Build tools | Ant, Maven, Nexus, |
| Cloud services | Aws |
| Version control | GitHub, Svn, andBit-Bucket |
| Application servers | Tomcat, Jboss, Web sphere |
| Web servers | Apache |
| Deployment | Rundeck, code deploy |
| Virtualization | VMware, Docker |
| Monitoring tools | Nagios, Cloud Watch (AWS) |
| Scripting languages | Shell, Ruby, python, XML |
| Bug Tracking Tools | Jira, Remedy. |

**PROFESSIONAL EXPERIENCE:**

**Ulta Beauty – Bolingbrook, IL Dec’ 2016 –Till date**

**Build and Release Engineer**

The company was formerly known as Ulta Salon, Cosmetics & Fragrance, Inc. and changed its name to Ulta Beauty, Inc. in January 2017. Ulta beauty has been constantly delighting our guests with all things beauty all in one place, while offering rewarding careers for our passionate, beauty-loving associates.

**Responsibilities:**

* Developed the automation necessary to improve efficiency across the software development lifecycle.
* Monitoring**Azure** Data Stream – Maintain system uptime across entire Azure platform, while optimizing Azure data consumption.
* Worked with cloning code from **GIT** repositories and had experienced in checkout to the branches

and downloading code into**MAVEN.**

* Builds are developed by using **MAVEN** tool and Jenkins is used in the Continuous integration server.
* Worked with the configured and maintained **Jenkins** to implement the CI process and integrated the tool with maven to schedule the builds.
* Expertise in installing and managing **Apache** web servers and **tomcat** application servers.
* Utilized Configuration Management Tool **chef**& created puppet modules to automate system operations.**Cookbooks** and **recipes** are created to reduces management complexity for installation and file management.
* Involved in**integration** had versed with Application program interface (**API)** is made to manage software applications.
* **Terraform** is a tool for building, changing, and versioning infrastructure safely and efficiently.

Terraform can manage existing and popular service providers as well as custom in-house solutions.

* Worked on **Cloud watch** to monitor all the system performance in the infrastructure.
* Used AWS **Elastic Beanstalk** for continuous deployment to reduce development timelines and increase productivity.
* Hands on experience on the **codedeploy** to deploy the code continuously throw prod environment.
* **Cloud formation** is used in maintaining the instances in the infrastructure.
* Experience in writing **Shell** scripting,**python**scripting, and **Ruby**scripting.
* Used**Agile**, **Scrum** and **UAT** Methodologies for testing software development time basely.
* Strong ability to **Troubleshoot** any issues generated while building, deploying and in production Environment.

**Environmen**t: Jenkins, Maven, Nexus, GitHub, chef, AWS, Shell scripting, shell, python, Ruby scripting, EBS, Cloud Watch, EBS, Cloud watch, Terraform, Agile, Scrum and UAT.

**Cray Inc. – Seattle, WA May’2016 – Nov’2016**

**DevOps Engineer**

Cray Inc. is an American supercomputer manufacturer headquartered in Seattle, Washington. It also manufactures systems for data storage and analytics.

**Responsibilities:**

* Assisted in building DevOps delivery pipeline with infrastructure and environment provisioning,deploying and monitoring tools that supported, enhanced and grew the DevOps model.
* Designed, developed and re-usable components in cloud infrastructure to support scalability, high-availability and resiliency, monitoring, back-up and restore.
* Worked on **GitHub** with best practiced strategies.
* Used **Jenkins** to automate the whole pipeline, with email notifications enabled for each success andfailure of build or the process.
* Wrote shell, python and couple of ruby scripts to automate many routine and regular timed tasks.
* Automated configuration management using **Chef.**Wrote **cookbooks, recipes** to manage nodes and **Chef server**. Used knife to enhance thefunctionality and usability of the cookbooks.
* Configured and worked upon monitoring and logging tool **Splunk**. Used the data to trouble shootmany issues and identify the problem bottlenecks as per the data generated.
* Implemented the whole infrastructure on Cloud using Amazon Web Services.
* Used **EC2** instances to run the servers, leveraging **EBS** volumes, taking periodic snapshots byautomating the backup process using a python script and cronjob.
* Leveraged S3 to store the backups and provisioned life cycle policies to move older files to Amazon

Glacier. Also, used**VPC**.

* Used **ELB** to balance the load across multiple servers which had Apache web server running.
* Leveraged CloudWatch alarms and auto-scaling to implement high-availability and to make thesystem more resilient to outages and breakdowns.
* Used **IAM** effectively to manage users and protecting systems from unwarranted actions initiated by users.

**Environment:**Jenkins, Maven, AWS, SVN, Puppet, python, EC2, S3, RDS, EBS, Elastic Load Balancer, auto-scaling, VPC, shell, ruby, python, IAM.

**Iland –Houston, TX Feb’2015– Apr’2016**

**AWS Cloud Engineer**

In 1994, Iland began developing websites in Boston and Houston. By early 1995, Iland had reorganized itself exclusively in Houston and was busy with its website development efforts.

**Responsibilities:**

* Launching Amazon **EC2** Cloud Instances using Amazon Web Services (Linux) and Configuring launched instances with respect to specific applications.
* Worked with **EC2API** tool and it allows to launch multiple instances of the same **AMI** by using **Cloud formation template**.
* Installed the application on AWS EC2 instances and configured the storage on S3 buckets.
* Deployed EC2 Instance, it allows to create new **EBS** volumes and can attach it to instances for extra storage to increase the availability of the website.
* Used AWS **Elastic Beanstalk** for continuous deployment to reduce development timelines and increase productivity.
* Used **S3** for snapshot and Configured S3 is used in Database logs, including deleting old logs, archiving logs based on maintenance of Apps and Databases.
* Used the **Elastic load balancer** to direct traffic to all instance in the availability zone.
* Designed a security group for maintaining the inbound and outbound traffic.
* Used Amazon **Route 53** to manage the traffic and configure DNS health checks to route traffic to healthy endpoints.
* Setup of Virtual Private Networks across Departments with strong Network **ACL**s at both the Subnet and the Instance level.
* Autoscaling of Web Application instances based on the **CloudWatch** alarms during sudden increase in network traffic.
* Created groups and roles for users to use the AWS Identity Authentication Management(**IAM**).
* Used **Tomcat** as standard application server to deploy web applications.
* Using Amazon**CloudWatch** to monitor infrastructure and applications such as **EBS,EC2, ELB, S3.**
* Configure notifications for the alarms generated based on events defined.
* CodeCommit uses AWS Identity and Access Management (IAM) users, groups and their policies to allow access to the repositories.

**Environment:** AWS EC2, Identity Access Management (IAM), EBS, Elastic Load Balancers, Route 53, S3, AWS CloudWatch, CodeCommit, Tomcat, Apache HTTPD, JSON, Shell Scripting.

**Clarabridge – Reston, VA Aug’2014– Jan’2015**

**Build and Release Engineer**

Clarabridge helps hundreds of the world’s leading brands understand and improve their customer experience. Using advanced text analytics, Clarabridge transforms survey, social, voice and all other forms of customer feedback into intelligence used to empower confident, decisive action across the business.

**Responsibilities:**

* Worked with client’s teams to understand client deployment requests.
* Coordinated with the Development, Database Administration, **QA and IT** Operations teams to ensure there are no resource conflicts.
* Worked closely with Project Managers to understand a code release scope and how to confirm a release was successful.
* Integrated **GIT** into **Jenkins** to automate the code check-out process used Jenkins to automating Builds and automating Deployments.
* Organized and facilitated **sprint** planning, daily stand-up meetings, reviews, retrospectives, release planning, demos, and other **scrum** related meetings.
* Installed, configured and upgraded **Jboss** application server to deploy the code.
* Configured plugins for the integration tools to the version control tool’s.
* Utilize Jira for issue reporting, status, and activity planning.
* Used ANT tool to do builds, integrated **ANT** to Eclipseand performed local builds.
* Automate entire manual troubleshooting activities using **Ansible** and Jenkins.
* Worked on patches in the time of **release process**.
* Coordinating and tracking and updating all projects for finding defects and tasks releases using Project Management System **JIRA.**
* Managed and documented all post deployment issues using the Post Deployments Issue Log.

**Environment:**Subversion, Ant,Jenkins, Jboss Application Server, SDLC Web services, Web Logic, Jira, Eclipse, Ansible, shell, python scripting.

**Vencore Labs – College Park, MD. Oct’2013 – July’2014**

**Linux Admin**

Vencore Labs, previously branded as "Applied Communication Sciences," is a communications and information research and engineering company based in the United States

**Responsibilities:**

* Responsible for Installing and configuring **RHEL 4.x, 5.x** using CD media **Kickstart.**
* Worked with administered and troubleshoot **RHEL** installed on **IBM blade.**
* Implemented system upgrades including hardware, operating system and patch upgrades.
* Created, modified and deleted users, groups and group memberships as per requirements.
* Installed and upgraded software packages for Linux and Solaris Servers using **RHN**.
* Analyzed and monitored resource utilization and system performance using various system tools such as**vmstat, Sar** etc.
* Creating new file system,managing & checking dataconsistency of the system.
* Made backups of the directories and files using the **tar, gzip**, and **gunzip** tools.
* Configuring **DNS**, **NFS** and Disk Space management & Auto Mount on Linux services.
* Worked with Server Migration and Consolidation of Applications on Java Applicationsand Oracle Enterprise**.**
* Increased team productivity and automated repetitive tasks by using batch files, and bash scripting.
* Installed **Apache Webserver**, **WebLogi**c Application Server and **Oracle database** in the servers.
* Configured domains, admin and managed servers in **WebLogic** application server to deployweb/enterprise applications.
* Involved in documentation of RHEL environment and configuration details.

**Environment:** Redhat 4.x, 5.x, IBM Blade, Kickstart, RHEL, cron, Vmstat, Apache, WebLogic 8.1, Oracle database, Apache webserver, cron, RHN, Vmstat, Sar.

**Rising Medical Solutions – Chicago, IL Mar’2012 – Sep’2013**

**System Admin**

Rising provides comprehensive healthcare management solutions to a diverse client base including top insurance carriers, self-insured employers, government entities, TPAs and attorneys.

**Responsibilities:**

* Worked in Mission Critical Production environment that deals with OS level issues through the Enterprise.
* Regular Admin Tasks include building Linux servers for Production, Development and Test Environments and supported the ones under production.
* Involved in building Linux VM's using **VM templates** and **kickstart** servers to build multiple servers over the network.
* Experience in managing **EMC** arrays and provisioned **SAN disks** to Linux and Solaris arrays.
* Performed OS upgrades for critical servers under production.
* Performed various file system changes to accommodate upgrades in applications, services and databases.
* Experience configuring Open **LDAP** and setting up clients for Open LDAP.
* Implemented scripting new by writing shell scripts and Perl scripts and scheduled those by using cron.
* Manage software on system using **YUM,** and **RPM.**
* Worked on the Java based applications and supported JVM's and worked on issues related to Java and patching regularly with **WebLogic** and **Jboss applications**.
* Managed Disks and File systems using LVM on Linux.
* Performed configuration and troubleshooting of services like **NFS, NIS, DHCP, FTP, LDAP, Web servers (Apache), Samba servers.**
* Increased team productivity and automated repetitive tasks by using batch files, and bash scripting.
* Extensive experience in installing, integrating, tuning and troubleshooting Apache, Tomcat and Web Sphere application server and Web sphere IHS including troubleshooting.

**Environments:** VM templates**,**kickstart, WebLogic, Jboss, Nagios, Iostat, MPstat, NFS, NIS, DHCP, FTP, LDAP, Web servers (Apache), Samba servers.

**ValueLabs --Hyderabad, INDIA June’2009 – Feb’2012**

**System Admin**

ValueLabs provides global issues business technology solutions and services provider. In an age when technology plays a critical role in business strategy, ValueLabs are pioneering industry-specific solutions and new age digital practices that enable rapid growth, rich value and specific business outcomes.

**Responsibilities:**

* System Administrator responsibilities for providing 24x7 support for Production, UAT andDevelopment Environments.
* Installed and configured **Redhat Linux Satellite Server 4.1.0** for the deployment of packages andimages of OS for deployment of multiple servers. Package management with **yum** and **rpm**.
* Installed and configured VMware **ESX Server 5.5** on **Dell and HP ProLiant servers**, configured VMsand administered them usingVirtual Center 5.5.
* Administering Network File System using Automounter and administering user and OS data filesin **NIS**, and **NFS** environment on both Redhat Linux and Solaris environments.
* Performed backup administration using **Veritas NetBackup 6.5** / created maintain backup policies.
* Configuration of virtual hosts, plugins and SSL certificates on web servers and domains anddeployments on application servers.
* Proactive maintenance on systems by timely upgrading Patches to the systems and applications.
* Central log management / monitoring with **Splunk**.
* Assigned IP address using **Inflobox.**
* Applying software maintenance, program fixes and keeping the system software releases current.
* Involved in post-production support for solving complex tickets.

**Environment:** Solaris 8, Redhat Linux EL 3.0, SLES 9, 10, VMwareESX Server 5.5, Dell R805, Inflobo**x**, Veritas net backup 6.5,Autosys, Native cron, Apache 2.2.x, JBoss 4.2, Oracle 10g.

**EDUCATION:**Bachelor of Engineering.