**ASHOK**

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**Professional Summary:**

* Over **8 years** of experience in Network Admin, IT Architect, Continuous Deliveryand Continuous Integration, strong background in Build and Release Management and Cloud Implementation all within that suites the needs of an environment under **DevOps** Culture.
* Lead agile project teams using both **Kanban** and **Scrum/Agilemethodologies** to achieve a high level of performance.
* Thorough knowledge of Infrastructure & Configuration Management tools like**Ansible**.
* Experience with **CI (Continuous Integration)** and **CD (Continuous Deployment)** methodologies using **Jenkins.**
* Excellent **Quality Assurance**&**Smoke testing** skills in discovering edge case bugs using exploratory testing.
* Experience in using Version Control Tools **Sub-Version, Git**.
* Implemented and building tools such as **Ant** in order to automate and enhance the overall operational environment
* In-depth understanding of the principles and best practices of Software Configuration Management **(SCM)** processes, which include compiling, packaging, deploying and Application configurations.
* Monitoring and managing performance of **ESXi servers** and **Virtual Machines.**
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* Experience in **Performance tuning, garbage management** and **memory leaks, networking** and **information security, IO monitoring** and **analysis.**
* Resolving escalated tickets, performance problems and creating **Root Cause Analysis (RCA)** document on Severity 1 issues.
* Ability in execution of **XML** and scripts like **Shell, Perl, batch and Python**.
* Worked on Multiple **AWS** instances, **setting up the security groups**, **Elastic Load Balancer** and **AMI**s, **Auto scaling** to design cost effective, fault tolerant and highly available systems.
* Experience in configuration of **NIS, DNS, DHCP, NFS, Apache, send mail, FTP, remote access, security management** and **Security troubleshooting skills.**
* AWS Cloud platform and its features which includes **EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, Cloud Trail, CloudFormation AWS Config, Autoscalling, IAM, S3**.
* Implementation of Auto Scaling for instances under **ELB** using **ELB Health Checks.**
* Work experience on **S3 bucket, scheduling automated backup jobs**
* IAM and its policy management to restrict users to particular **AWS Resources**.
* **Storage administrator**, Mid-range Storage around 3 years of experience in **infrastructure implementations, solution offerings** and **professional services**.
* Achieved disaster recovery implementations and participated in **24/7 on-call rotation policy** with other team members.
* **Excellent interpersonal skills**, proven team player with an analytical bent to problem solving and delivering under high stress environment.
* Good **analytical and communication skills** and ability to work independently with minimal supervision and also perform as part of a team.

**Technical Skills:**

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| --- | --- |
| **Source Control/Versioning** | Git, SVN |
| **Infrastructure/Virtualization Environments** | VMware ESXi, Oracle Virtual Box, KVM, Asset Management, Ansible |
| **Project Management / Monitoring Tools** | Jenkins, Ant, Nagios,Crontab, JIRA, Confluence, MS Project |
| **Security / Analysis Tools** | Wireshark, TCP Wrappers, TCP dump, openssh, nmap, dig, traceroute, netstat |
| **Protocols/Services** | LDAP, DNS, BIND, HTTP, HTTPS, POP3, NFS, TLS/SSL, DHCP |
| **Cloud Technologies** | AWS (EC2, ELB, S3, ElasticBeanstack, RDS, Auto scaling, Cloudwatch, VPC, Route 53, Cloudfront, NATGW ) |
| **Operating Systems** | Ubuntu, Red Hat 6.x, Windows 8/7/Vista/XP/server20xx, Android |
| **Networking** | Cisco IOS, Routers, Switches, LAN/WAN, Firewalls, VPN |
| **Visual Analytics** | Tableau, Google Analytics, Bar/Pie Charts in Excel Sheets |
| **Scripting Languages** | Shell, Python |
| **Methodologies** | Waterfall, Agile, Kanban |

**Professional Experience:**

**Client: E la Carte, Inc., Palo Alto, CA Jan, 2015 – Present**

**Role: DevOps Engineer**

**Description:**E la Carte deploys Android based tablets on restaurant tables so that guests can order, play games and pay from their seats without having to wait. With features such as table ordering, credit card payment, split bills, etc., it is integrated with existing POS systems.

**Responsibilities:**

* Established **version control**led software deployment for **+90000** remote Android clients and **+1800** Servers using Git, **S3 and Jenkins**.
* Implemented **Kanban** (build a little, test a little) environment to support daily releases as part of Product usability testing.
* Test and troubleshoots live so that customers have instant and enjoyable user experiences.
* Using **Tableau** provided intuitive product updates for potential winners and entailed losers with new changes and enhancements in the product.
* Manage installer releases for Client-Server based tablet supported on all **Unix and Windows** environment.
* Planning, scheduling and documenting releases at different stages of **agile development**.
* Implemented lightweight process for communication of software releases to production & maintain Sprint release notes to client & server.
* Streamlined the process to support sprint based releases to production and improved current state of release management using **Git & Jenkins**.
* Collaborated with different teams by providing internal training on technical knowledge for operations and post-release support.
* Retrofitted the production deployment process to **QA, Dev**&**Product teams.**
* Managed merging, branch creation and tagging for Git based code repository.
* Debugged & discovered edge-case bugs from grey-box testing with software internals and log files analysis for pattern identification.
* Performed exploratory testing to expose defects/issues not discovered with unit tests or automated testing.
* Designed, Developed &migrated all Point of Sale Systems to **VMware ESXi Servers**, thus facilitated cost-effective in-house infrastructure for development & testing of Presto tablets.
* Assist Customer Support team to analyze and resolve tier 2 issues by using remote management software such as **logmein, teamviewer**.
* Created unit and functional test cases through use of testing tools such as **Python** and **Bash**
* Installed and configured Infrastructure Automation tool **Ansible.**
* Configured **Chef-Server, Chef-Analytics** and **Chef Workstation**, used existing recipes from **Chef.**
* Used **Ansible cookbooks** to automate in **AWS** features like **EC2, IAM, VPC**, **EBS, CloudWatch, Cloud Trail, CloudFormation, Autoscalling, IAM, S3.**
* Deployed and monitored scalable infrastructure on **Amazon web services** specifically on **AWS EC2.**
* Actively involved in architecture of **DevOps platform** and **cloud solutions**.
* Integration of Automated Build with Deployment Pipeline. Implemented scheduled downtime for non-prod servers for optimizing **AWS pricing.**
* Responsible for Continuous Integration (CI) and Continuous Delivery(CD) process implementation using **Jenkins**
* Trouble-shooter issues along the CI/CD pipelines.
* Worked on the installation and configuration of the monitoring tool **Nagios in AWS.**
* Worked on **Apache** and **Firewalls** in both development and production.
* Monitoring **system performance, Server load** and **bandwidth** issues
* **Create, extend, reduce** and **administration** of Logical Volume Manager (LVM) in **RHEL** environment.
* Closely worked with development, QA and other teams to ensure automated test efforts are tightly integrated with the build system and in fixing the error while doing the deployment and building.
* Branching, Tagging, Release Activities on Version Control Tools: **GIT**
* Managed and optimize the Continuous Delivery tools like **Jenkins.**
* Install, Configure, Administer **Jenkins** Continuous Integration Tool
* Provide stable build environments for product development.

**Environment:**Ansible, Git, AWS, Jenkins, Shell scripting, Python, Scheduling, Logmein, ESXi, Nagios, Nginx, VMware ESXi, JIRA, Confluence, Tableau, Internal Wiki, Test link.

**Green Dot Corporation, Los Angeles, California Jan 2014 – Dec 2014**

**DevOps Engineer**

* Scripting in Bash to facilitate the automation process and provisioning of a variety of Virtual Machines and Virtual Appliances, such as RHEL, CentOS and Debian.
* Built server automation tools used: Maven/Jenkins (Build/integration), Puppet (configure) and Git (version control)
* Assisted business and financial analysts in conducting an assessment of the cloud and analyzing all licensed products.
* Responsible for mapping components from the on-premise architecture to the cloud-based architecture.
* Migrated the production infrastructure to Amazon Web Services utilizing Amazon VPC, RDS, S3, EC2 etc.
* Designed, built, and deployed a multitude applications utilizing almost all of the AWS stack (Including EC2, R53, S3, RDS, DynamoDB, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
* Performed Backup and Recovery in AWS (S3, EBS, and Oracle/RDS primarily).
* Used Cloud Watch for monitoring the AWS cloud resources and the applications deployed on AWS (used SNS for notifications).

**NBC Universal, Los Angeles, CA Jan2013-Nov2014  
DevOps Engineer**

**Responsibilities:**

* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Installed, Configured and Administered Hudson/Jenkins Continuous Integration Tool.
* Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Developed automation framework for Application Deployments to the cloud environments.
* Worked on Managing the Private Cloud Environment using Chef.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Performed Branching, Tagging, Release Activities on Version Control Tools: SVN, GIT.
* Developed Perl and shell scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
* Automated the cloud deployments using chef, python (boto& fabric) and AWS Cloud Formation Templates.
* Implement Openstack Log Analytics Solution as a service using Flume, Fluentd, Logstash with Elasticsearch and Kibana for searching and indexing the logs.
* Implement HSP Log analytics solution Using Logstash, Elasticsearch, Kibana.
* Created deployment tickets using Jira for build deployment in Production.
* Used Maven as build tool on Java projects for the development of build artifacts on the source code.
* Implemented Micro-services using Pivotal Cloud Foundry platform build upon Amazon Web Services
* Implementing and designing new projects based on messaging (SMS), these projects were developed in Java (J2EE) and Python for scripting.
* Developed some Python Scripts for Diagnosis module.
* Python scripting implementation for processing database records.
* Creating Linux Virtual Machines using VMware Virtual Center and AIX LPARs on P550 and P570.
* Configured TFS builds with continuous integration and build notifications.
* Configured users and permissions for TFS, SharePoint portals and Source Control Explorer folders
* Manage Enterprise Database Environments in Physical and Virtual Environments, Which Consist of a Mixture of SQL SERVER Databases, AMAZON REDSHIFT.
* Experience with Docker and Vagrant for different infrastructure setup and testing of code.
* Experienced in building and maintaining Docker infrastructure for SOA applications in agile environment.
* Deployed Docker Engines in Virtualized Platforms for containerization of multiple apps.
* Implemented a Nagios monitoring system to notify of system issues
* Worked in design and deployment of national data center using the Openstack
* Proficiency in multiple databases like MongoDB, Cassandra, MySQL, ORACLE and MS SQL Server.
* Installed Pivotal Cloud Foundry on EC2 to manage the containers created by PCF. Used Docker to virtualize deployment containers and push the code to EC2 cloud using PCF.
* Provide SME in all areas of Cloud (IaaS, PaaS, SaaS) to existing and perspective clients on multiple cloud platforms; vSphere/vCloud/CloudStack/Azure/AWS and various PaaS   
  platforms (Cloud Foundry/OpenShift).
* Participated in installing and configuring of UNIX/Linux based Oracle 10g products

**Environment:** DevOps, Java, Ant, Maven, Jenkins, Hudson, Chef, Puppet, Python, Perl, AWS, GIT, SVN, Apache Webserver, JBoss, Apache JMETER, MetaCase, GIT, SVN, Windows.

**SpurtiTechnologies (P)LTD, India Jul 2011 to Sep 2012**

**Java Build Engineer**

**Responsibilities:**

* Worked closely with the Development Team in the design phase and developed use case diagrams using Rational Rose.
* Worked with the Architects on SDLC process being the owner of post development environments.
* Coordinating the resources by working closely with Project Manager’s for the release and Project Manager for all the Operational Projects.
* Carried Deployments and builds on various environments using continuous integration tool.
* Source code configuration tools Subversion and GIT used for different projects.
* Developed and implemented the software release management for the release of web applications.
* Wrote ANT and MAVEN Scripts to automate the build process. Configured Bamboo for doing the build in all the non-production and production environments.
* Used Shell to automate the deployment process.
* Performed Load/Functional testing using Mercury Load runner and HP QTP.
* Designed a customized Status Reporting tool used currently, based on the specific requirements using
* J2EE/Struts and Websphere Application Server with DB2 as Database.
* Coordinated all the IT projects successfully by resolving release interdependencies

## Client:Gemini Software Solutions, India Sep 2009 to Jun 2011

**Role: Release Engineer**

**Responsibilities:**

* Created Builds and deployed builds to different environments based on requests
* Performed Software Configuration, Build and Release Management activities for JAVA Applications using Clear Case and Hudson.
* Defined and configured build plans to automate build processes using continuous integration build tools such as Jenkins.
* Setup version control tools (SVN) to version code changes to help developers/programmers branch/merge/revert code.
* Wrote build scripts & made recommendations to enhance customization in build scripts written in Ant & Maven.
* Managed builds and wrote Ant build scripts for Java/ WebLogic based applications
* Managed the defects and changes using Remedy.
* Implemented Hudson with Subversion for Continuous integration environment
* Adopted Install Shield scripts, written scripts and used them to package builds and releases for different environments as defined in SDLC
* Written Perl scripts for the automation of daily support tasks
* Responsible for writing cross platform scripts for building and testing applications.
* Worked closely with the System Administrator in issues related to Network connectivity, scalability and managing user groups.

**Sify Technologies Pvt ltd. Hyderabad, India Jan 2008 to Aug 2009**

**Systems Engineer**

**Responsibilities:**

* Installation, configuration and administration of Redhat Linux servers and support for Servers.
* Installation, maintenance and regular upgrades of Redhat Linux Servers using kickstart based network installation
* Provided 24x7 System Administration support for Redhat Linux 3.x, 4.x servers and resolved trouble tickets on shift rotation basis.
* Provide the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting and KVM.
* Installation of patches and other software packages
* Monitoring system performance, tune-up kernel parameter, adding /removing /administering hosts, users, disks on DNS / NIS domain,
* Installation of Oracle Patches and Troubleshooting, Creating and modifying application related objects, Creating Profiles, Users, Roles and maintaining system security.
* Administrative tasks such as System Startup/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management, dumb terminals and devices carried out.
* Installation and configuration of Oracle 7.x/8.x.
* Implemented NFS, DNS and NIS under SUN.
* Performed the administration of the Domain Name Server and configuration of the Database Files.
* Wrote bash shell scripts for getting information about various Linux servers
* Performed OS upgrades and Patch loading as and when required.
* Backing up and restoring files across the network

**Environment:** Redhat Linux 4.1,4.2,4.3,4.4, , SunFire 4500/ V880 / V480/ E420R/ E450/ E250, Sun StorEdge A1000, A5000, JBODs Compaq servers, Solstice Disk Suite, Oracle 7.x/8.x.