**Surekha P**

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**EMPLOYER DETAILS: - LINDA DAVIS |** **linda@teamitserve.com** **| 972-594-9409**

**Professional Summary:**

* Around 7 years of experience in IT industry and shaped my learning skills on high level, proactive, driven individual who is motivated by the challenge to help a Development Operations team.
* Design, develop and operationalize Continuous integration CI, Continuous deployment CD and Continues delivery solutions.
* Hands on Experience in creating highly available and scalable infrastructure in AWS cloud by using various **AWS** services like **EC2**, **ECS**, **VPC**, **ELB**, **RDS**, **Route53**, Cloud Watch, **Cloud** Formation, **Autoscaling** and **Lambda**.
* Designed AWS Cloud Formation and Terraform templates to create custom sized **VPC**, **S3**, **IAM**, **EBS**, **Auto** Scaling, **RDS**, **subnets** and **NAT** to ensure successful deployment of Web applications.
* Experience in setting up **Jenkins** Continuous Integration builds for all releases on windows and **Linux**. Implemented **Continuous Integration** and deployment using various **CI** Tools like **Hudson**, **Bamboo**, **Chef**, and **Puppet**.
* Developed **Chef** recipes to **configure**, **deploy** and maintain software components of the existing infrastructure.
* Experience in installation and **configuration** management tools like **Puppet** and **Ansible** on various servers.
* Created and maintained Ant build.XML and **Maven** Pom.XML for performing the builds.
* Experience in manage cloud software deployments with a focus on continuous integration and deployment using **GitHub**, **Git**, **Jenkins**.
* Performed Branching, Tagging, Release Activities on **Version** Control Tools: SVN, GIT.
* Worked on creation of custom **Docker** container images, tagging and pushing the images.
* Hands on experience working for **MicroServices** Architecture using **Kubernetes** to orchestrate the deployment, scaling and management of **Docker** Containers and Created private cloud using Kubernetes that supports **DEV**, **TEST** environments.
* Developed writing **Python**, **Perl** and **shell** scripts for compilation and deployment process.
* Experience in working with **Java**, **HTML**, **JavaScript**, **jQuery**, **Bootstrap**, **JSON**, **Angular**.**JS** and **Node**.**JS**. • Good experience with querying common databases **MySQL**, **PostgreSQL**, **MSSQL**, RedShift and writing schemas to support automation initiatives.
* Working knowledge of network administration, deploying and troubleshooting of **DNS, LDAP, NIS, NFS, DHCP, and TCP/IP**.
* Hands on Experience in Creating local, virtual repositories in **Jfrog**, **Artifactory** and integrated with **Jenkins**.
* Experience with **IAAS**, **PAAS**, and **SAAS** architectures and solution.
* Installed, Configured, Managed Monitoring Tools such as **Splunk**, **Nagios**, **iCinga** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in **Agile**, **Scrum**, and **Waterfall** methodologies.

**TECHNICAL SKILLS:**

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| * **Version Control Tools:** GitHub, SVN.
* **Continuous Integration:** Jenkins, Bamboo and TeamCity
* **Container Management:** Docker, **ECS**, Kubernetes, Open Shift
* **Configuration Management:** Chef, Puppet, Terraform and Ansible
* **Build Tools:** MAVEN**,** ANT, Gradle
* **Monitoring tools:** Nagios, Splunk, AWS CloudWatch
* **Scripting:** Python, Ruby, Shell, YAML, Bash
* **Virtualization:** VMware Workstation, VirtualBox, vSphere
* **Operating Systems:** Windows, Mac OS X, CentOS, Linux, Ubuntu and Solaris
* **Languages:** C, C++, HTML, Ruby, Core Java, Python, C#, Groovy, Shell scripting, XML, Java/J2EE
* **Database:** Oracle, MongoDB, SQL, MySQL, NoSQL, RDBMS
* **Cloud Services:** AWS **EC2**, VPC, EBS, AMI, SNS, SQS, RDS, Cloud Watch, Cloud Formation, Lambda, AWS Config, S3, Cloud Trail, IAM etc.
* **Tracking Tools:** JIRA, ServiceNow
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**PROFESSIONAL EXPERIENCE:**

**ALTERYX, COLORADO, USA Feb 2018 – Till date**

**DevOps Engineer**

* Connected continuous integration system with GIT version control repository and continually build as the check-inn's come from the developer.
* Installing, configuring and maintaining Continuous Integration, Automation and Configuration Management tools to make the Azure cloud setup.
* Implemented and evangelized CICD utilizing Jenkins, Puppet, and other automation tools as part of the DevOps team.
* Used Ant as build tool on Java projects for the development of build artifacts on the source code.
* Expertise in deploying artifacts like WAR, JAR using Puppet on QA, PROD Environments.
* Worked on Continuous Integration System i.e. Jenkins. Used Jenkins for official nightly build, test and managing change list. Installed Multiple Plugins for smooth build and release build pipelines.
* Experience to build CICD Pipeline to automate the code release process using Integration tools like GIT, GitHub, Jenkins and artifact repo.
* Installing and configuring Jenkins, installing plug-in, configuring security, creating a master and slaves for implementation of multiple parallel builds.
* Installed and configured monitoring tools Nagios for monitoring the network bandwidth and the hard drives status.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform. Managed AWS infrastructure as code using Terraform.
* Expertise in writing new plugins to support new functionality in Terraform.
* Experience in installation, set-up, and management of build servers and management tools likeJenkins, GIT, Jira, Selenium, ANT, **Maven** , Python, Tomcat, etc.
* Experience in working with **Selenium** IDE and **Selenium**Web Driver using TestNG.
* Developed scripts for build, deployment, maintenance and related tasks using Jenkins, **Docker**, Ant and **Python**.
* Developed Networking policies for **Dockercontainers**. Worked on open source development tools like Docker Containers.
* Used **Kubernetes** to deploy scale, load balance, scale and manage Docker containers with multiple name spaced versions.
* Deployed the **Java** applications into web **application** servers.
* Performed and deployed Builds for various Environments like QA Integration, **UAT** and **Productions** Environments.
* Monitored system performances using **Nagios** and managing network issues.
* Involved in migration from on-premises to **AzureCloud** and created customer images for **VM's**. Deployed clusters using **JSON** template and power shell in AZURE.
* Experienced in **AzureSQL** Services - Created **AzureSQL** database, performed monitoring and restoring of Azure SQL database. Performed migration of Microsoft SQL server to **Azure** SQL database.
* Created **Puppet** Automation tools and builds and do an overall process improvement to any manual processes.
* Manage deployment automation using **Puppet**, MCollective, Custom **Puppet** modules, **Ruby**.

**Environment:** Azure, Java, Shell, PowerShell, Ruby, GIT, GitHub, Mongo DB, Puppet, Jira, Jenkins, Docker, Kubernetes, Ant, WebSphere, Web Logic, J Boss, Python.

**Client: ADP, HYDERABAD, INDIA Apr 2016 – Oct 2017**

**DevOps Engineer**

* 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 for all our products.
* Implemented AWS solutions using **EC2**, **S3**, **RDS**, **EBS**, Elastic Load Balancer, and Autoscaling groups, Optimized volumes and **EC2** instances.
* Created multi Availability Zone **VPC** instances and Used IAM to create new accounts, roles and groups and polices.
* Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier. Configured Elastic Load Balancers (ELB) with **EC2** Autoscaling groups.
* Created monitors, alarms and notifications for **EC2** hosts using CloudWatch.
* Experience in working with **AWS** Code Pipeline and Creating **CloudFormationJSON** templates which is converted to Terraform for infrastructure as code.
* Installed, Configured and Administered **Jenkins** Continuous Integration Tool. Using **Jenkins** AWS Code Deploy plugin to deploy to AWS.
* Designed an **ArchitecturalDiagram** for different applications before migrating into Amazon cloud for flexible, cost-effective, reliable, scalable, high-performance and secured.
* Developed strategy to migrate Dev/Test/Production from an enterprise **VMware** infrastructure to the IaaS **AmazonWebServices** (AWS) Cloud environment including runbook processes and procedures.
* Worked on Managing the Private Cloud Environment using Ansible and Enhanced the automation to assist, repeat and consist configuration management using Ansible based **YAML** scripts.
* Implemented modules using Core **Java** APIs, Java collection, Java8(Streams), multi-threading, and object-oriented designs and Developed Java API to interact with the Amazon SQS used for sending bulk emails.
* Managed Ansible Playbooks to automate system operations and AWS Cloud management using Ansible Automation.
* Deployed **microservices**, including provisioning AWS environments using Ansible Playbooks.
* Used Ansible run it on **Red Hat Enterprise Linux (TM), CentOS, Fedora, Debian, or Ubuntu**.
* Automated the cloud deployments using **Ansible**, **Python** and **AWS** Cloud Formation Templates.
* Developed an autonomous continuous integration system by using **Git**, **Gerrit**, **Jenkins**, **MySQL** and custom tools developed in Python and Bash.
* Worked on Design, support and maintain the Splunk infrastructure on Windows and Linux environments. Installation of **Splunk** Enterprise, Apps in multiple servers with automation.
* Hands on experience in creation of custom Docker container images, tagging and pushing the images and Dockers consoles for managing the application of life cycle.
* Used **Docker** as a new level of simplicity to defining and creating applications or services by encapsulating them in containers.
* Used **Kubernetes** to deploy scale, load balance, scale and manage **Docker** containers with multiple name spaced versions.
* Installed and managed the enterprise **Nexus** as a storage repository for artifacts.
* Organized and Coordinated Product Releases work closely with product development, **QA**, Support across global locations to ensure successful releases.

**Environment:** Git, Jenkins, Python, Java, Ansible, Maven**,** AWS, EC2, WebSphere, Ant, Kubernetes, Putty, Shell Script, Nexus, Splunk, Ngnix, Docker, Ubuntu, VMware, Jira, Xml and SQL.

**Client: HSBC, HYDERABAD, INDIA Jan 2015 – Feb 2017**

**LINUX ADMIN**

* Support concurrent development process with standard Branching and Merge of application source code.
* Administer and Maintain Source Code Repositories including **GIT**, Subversion
* Created and maintained several build definitions and publish profiles to handle automated builds in an **Agile** / **SCRUM** environment.
* Automated the cloud deployments using Chef and AWS cloud formation templates.
* Implemented rapid-provisioning and lifecycle management for **UbuntuLinux** using Amazon **EC2**, **Chef**, and custom **Bash** scripts.
* Deployed Puppet, Puppet Dashboard, and Puppet DB for configuration management to existing infrastructure.
* Documented the **SCM** process and policies of the company and recommended some process changes.
* Managed build and release processes and configurations to support software development, installation, testing builds and deployment operations.
* Responsible for developing and maintaining build, deployment scripts for test, Staging and Production environments using **ANT**, **MAVEN** .
* Built CI/CD pipeline with Jenkins on Kubernetes container environment, utilizing Kubernetes and docker for the runtime environment for the **CI**/**CD** system to build test and deploy on DEV and PROD environments.
* Implemented Infrastructure automation through Ansible for auto provisioning, code deployments, software installation and configuration updates.
* Experience in working with GIT to store the code and integrated it to Ansible Tower to deploy the playbooks.
* Build Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to **Kubernetes**, Created Pods and managed using Kubernetes.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI's, whenever a new **GitHub** branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new Docker container from it, The Docker container leverages Linux containers and has the **AMI** baked in.
* Implemented multi-tier application provisioning in OpenStack cloud, integrating it with Chef/Puppet.
* Implemented automatic machine failure recovery on cloud (**AWS**).
* Maintained and managed Ansible playbooks responsible for deploying Framework and other cloud tools.
* Responsible for **CICD** using Jenkins and Chef.
* Implemented multi-tier application provisioning in **OpenStack** cloud, integrating it with **Chef**/**Puppet**.
* Established **Chef** Best practices approaches to system deployment with tools with **vagrant** and managing Chef Cookbook as a unit of software deployment and independently version controlled.
* Managed large-scale deployments in stage and production environments.
* Written/Developed **Chef** Cookbooks to automate the entire deployment process as well as infrastructure admin tasks
* Worked on **Docker** containerization technologies to build and deploy services as images to cloud environment, also integrated the process as part of build pipeline. In **Jenkins,** every time it builds a new image, test the image and push to the repository.
* Worked on creation of **Puppet** manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Evaluated **Kubernetes** for **Docker** container orchestration.
* Automated the cloud deployments using **Chef**, **Python** and **AWS** Cloud Formation Templates.
* Install, configure, upgrade, monitor, maintain and manage multiple **MySQL** databases
* Written and developed **ChefCookbooks** from scratch for custom installation of application Updated
* Work closely with Application Development, Infrastructure Engineering, QA and Project Management Teams.
* Used OpenStack and **AWS** cloud services to launch Linux and windows machines, created security groups and written basic **PowerShell** scripts to take backups and mount network shared drives.
* Automated **MySQL** container deployment in **Docker** and monitoring of these containers using **Nagios**.
* Automated the **WebLogic** deployments using **Shell** scripts.
* Monitored the servers & applications using **Nagios**, **Splunk**.
* Responsible for deployment and support of **VMwarev Sphere** ESXi 6.0
* Responded to server down alerts in a timely manner and brought them up via HPiLO.
* Used **Jenkins**, Build forge for Continuous Integration and deployment into **Tomcat** Application Server.
* Worked as a member of both the projects as well as the steady state operations teams.
* Participated in regular 24x7 on-call rotations and coordinated with the offshore team for night-time scheduled activities.
* Using Build Forge and Cruise Control - Build project .ear files and deploy to appropriate environments in accordance with daily/weekly/monthly schedule.

**Environment:** Chef, Puppet, Jenkins, Ansible, GIT, AWS, Shell Scripting, PowerShell, Python, Kubernetes, Docker, Windows Server 2008 and 2012 , Tomcat 7.x/8.x, SQL, Ant, **Maven** , Nagios, Splunk, Agile/Scrum environment, WebLogic.

**Client: GENPACT, HYDERABAD, INDIA Feb 2012 – Dec 2014**

**Software Engineer**

* User account management, worked with **Perl**, **shell** scripting (ksh, bash) to automate administration tasks.
* Maintained user accounts file system and limit user account privileges.
* Maintained and Administered **GIT** Source Code Tool.
* Created Branches, Labels and performed Merges in **Stash** and **GIT**.
* Used Jenkins for Continuous Integration and deployment into **Tomcat** Application Server.
* Setting up build server for **continuous integration** with **Jenkins** for daily/nightly and weekly based builds.
* Communicating with Development teams in advance for all PRODUCTION releases planned.
* Expertise in Build and Release Management using **ANT**.
* Experience in installation, configuration administer Monitoring tools such as **Nagios**.
* Worked on **Jenkins** by scheduling jobs for Builds and release.
* Setup Jumpstart servers for automated installation of **Solaris** and Kick start for **Linux** servers and workstations
* Worked with different **Ansible playbooks** and maintain different Ansible roles.
* Create new **EC2** instance to meet high availability application architecture and security parameters
* Used **Ansible** server and workstation to manage and configure nodes.
* Implementation of code for several modules.
* Debugging the issues reported from various stakeholders.
* Experienced working with Ansible tower. Integrating **Ansible** tower with Jenkins to deploy code to different servers.