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**VINAYAK H**

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**PROFESSIONAL SUMMARY:**

* **9** years of total experience in IT Industry which includes as a **DevOps, AWS, Azure System Engineer and GCP,** and **2** years as a Linux Engineer**.**
* Experience as Cloud/DevOps Engineer with major focus on **Microsoft Azure, AWS**, **Google Cloud Platform** **(GCP)**, OpenStack, **Continuous Integration, Continuous Deployment**, Configuration Management Build/release.
* Experience of working on **AWS** Cloud platform and its features which includes **EC2, S3, IAM**, **VPC, EBS, AMI, RDS, EBS, Cloud Watch**, **etc**.
* Managed **Linux** and **Windows virtual servers** on EC2 using Chef Server and Familiar with Cloud watch, Elastic IPs and managing security groups for **EC2 Servers**.
* Experience in full **Software Development Life Cycle (SDLC)** that includes Analyzing, Designing, Coding, testing, implementation & Production Support as per quality standards using Waterfall, Agile methodology.
* Hands on experience with **Azure** and strong understanding of Azure capabilities and limitations, primarily in the **IaaS** Space. Worked on creating whole infrastructure.
* Implemented Microsoft Azure and part of **DevOps** team for internal project automation and build configuration management. Involved in configuring virtual machines, Storage accounts and Resource groups.
* Experience in branching, tagging and maintaining the version across the environments using **SCM** tools like Subversion **(SVN), GIT** and **BIT Bucket.**
* Experience in writing **Bash/Shell Scripting, Python scripting** to automate the deployment of Java based applications
* Worked with configuration management tools like **Ansible, Chef, Puppet** for continuous integration process and doing builds as per the schedule.
* Experienced in build and deployment using **Jenkins** of Java applications on to different environments such as **QA**, **UAT** and **Production**.
* Installed, configured, managed and monitoring tools such as **Splunk, Nagios and Kibana** for Resource monitoring, network monitoring bandwidth, log trace monitoring, memory usage, & hard drive status.

**TECHNICAL SKILLS:**

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| **Operating System:** |  Windows98/XP/NT/2000/2003/2008, UNIX, LINUX, MAC, Ubuntu Server 10/12, RedHat, VMware ESX 4.0/5.1/5.5,  CentOS 5/6/7. |
| **Versioning Control tools:** | SVN, GIT, Bit Bucket, GitHub, CVS. |
| **Virtualization Tools** | VMware, Virtual Box, V-sphere, ESX/ESXi, V-center server. |
| **Cloud Computing:** | AWS (EC2, ELB, S3), Microsoft Azure, Google Cloud Platform. |
| **Test &Build tools:** | MAVEN, ANT, Jenkins, SonarQube, Nexus, Bamboo. |
| **Continuous Integration tools:** | Ansible, Chef, Puppet, Docker, Bamboo, Azure DevOps, AWS CloudBuild. |
| **Networking:** | TCP/IP, SMTP, DNS, DHCP, LDAP, HTTP/HTTPS, SSH. |
| **Database Tools:** |  Oracle 10g, 11g/12c RAC, Cassandra DB, MongoDB, DB2, MS  Access, PL/SQL, MySQL, Postgres SQL, RDS |
| **Language/Scripting:**  | C, C++, JAVA, Shell/Bash scripting, Ruby, and Python. |
| **Web/App servers:**  | Apache Tomcat, Nginx, Apache Mod-Proxy, Mod-JK, JBOSS. |
| **Bug Tracking Tools:**  | JIRA, Fisheye, Rally, Bugzilla, ServiceNow |
| **Monitoring Tools:** | Nagios, IP monitor, Splunk, IO/stat, VM/stat, New Relic. |
| **Containerization Tool:** | Docker, Kubernetes |

**PROFESSIONAL EXPERIENCE:**

**Client: Walgreen, Deerfield, IL July ’19 - till date**

**Role: DevOps Cloud Engineer**

 **Responsibilities:**

* Built **Azure** environments by deploying **Azure IaaS** Virtual machines (VMs) and Cloud services (**PaaS**).
* Cloud Migrations: Perform Service migrations like lift and push on **On-Premise** and Azure servers reducing server maintenance cost.
* Develop **PowerShell** scripts and **ARM** templates to automate the provisioning and deployment process.
* Creating Storage Pool and Stripping of Disk for **Azure Virtual Machines**. Backup, Configure and Restore Azure Virtual Machine using **Azure Backup**.
* Worked on various Azure services like Compute (Web Roles, Worker Roles), **Azure Websites**, **Caching**, **SQL**, **NoSQL**, **Storage**, **Network services**, **Azure Active Directory**, **API Management**, **Scheduling**, **Auto Scaling**, and **PowerShell Automation**.
* Worked on Continuous Integration CI/Continuous Delivery (CD) pipeline for **Azure Cloud Services** using CHEF.
* Designed **Google Cloud Platform** **(GCP)** services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Configured and deployed instances on **GCP** environments and Data centers, also familiar with Compute, Kubernetes Engine, Stack driver Monitoring, Elasticsearch and managing security groups.
* Worked Extensively on building and maintaining clusters managed by Kubernetes, Linux, Bash, GIT, Docker, on **GCP** (Google Cloud Platform).
* Implemented Microsoft Azure and part of **DevOps** team for internal project automation and build configuration management. Involved in configuring virtual machines, Storage accounts and Resource groups.
* Extensively used **Chef** Configuration management to deploy packages with the required build artifacts from Artifactory and facilitate a stable and scalable build and deploy infrastructure.
* Managing existing infrastructure and creating infrastructure using **Ansible**as a Configuration Management Tool.
* Experience with container-based deployments using **Docker**, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Used **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions.
* Design, Implement and Build Azure Monitoring for cloud systems and Remote Systems at other sites using Azure Diagnostics, Azure Monitoring agent, **SCOM** and **Splunk.**
* Worked on integrating GIT into the **continuous Integration (CI)** environment along with Jenkins and Subversion.
* Creating Azure Data factories for loading the data to Azure SQL database from the Cosmos platform.

**Environment:** Azure DevOps, GCP, PCF, GIT, Terraform, Chef, Jenkins, Ansible, Docker, Kubernetes, GIT, Maven, Splunk, JIRA, Power shell scripting, .NET, Azure SQL, Windows.

**Client: State Street Bank, Boston, MA** **Sept ‘17 – July ‘19**

**Role: DevOps Engineer**

**Responsibilities:**

* Implemented Rapid-provisioning and Lifecycle management for Ubuntu Linux using Amazon **EC2, Chef** and custom **Bash scripts**.
* Managed **Amazon Web Services** like **EC2**, **S3 bucket**, **RDS**, **EBS**, **ELB**, **Auto**-**Scaling**, **AMI**, **IAM** through **AWS Console** and **API** Integration with **Puppet Code**.
* Setup Elastic Load Balancer for distributing traffic among multiple **Web Logic servers** and involved in-Deploying the content on **Amazon Web Services**. Maintaining the user accounts (**IAM**), **RDS**, **Route53**, **SES** and **SNS** services.
* Containerized the applications on **AWS** **ECS**, created the **Docker files** andmaintained the versions**.** Used **Docker Containers** for eliminating a source of friction between developer and operations.
* Implemented in continuous delivery Pipeline using Jenkins as continuous integration tool deploying applications/apps. Integrating source code with **GitHub**.
* Experience with **Chef** Enterprise as well as **On-Premise, Installed Workstation, Bootstrapping Nodes, Wrote Recipes and Cookbooks** and uploaded them to Chef-server.
* Carried Deployments and builds on various environments using **(CI)** tool **Jenkins**. Developed and implemented the software release management for the release of web applications.
* Wrote **ANT** and **MAVEN** Scripts to automate the build process. Developed build and deployment scripts using Ant and Maven as build tools in **Jenkins** to move from one environment to other environments.
* Designed and implemented Continuous Integration process using tools like **Hudson** with approval from development and other affected teams.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Cloud Migrations: Perform Service migrations like lift and push on **On-Premise** and Azure servers reducing server maintenance cost.
* Creating Storage Pool and Stripping of Disk for **Azure Virtual Machines**. Backup, Configure and Restore Azure Virtual Machine using **Azure Backup**.
* Experienced in support with automation solutions for **Source, configuration management Deployment and pipeline.** Cloud formation scripts using **JSON**, manage the **configuration** Continuous cloud deployment.

**Environment:** Windows, SQL, Ant, Maven, Kubernetes, Docker, Nagios, Splunk, Subversion, Chef, Microsoft Azure, Amazon Web Services, Shell/Perl, Python, SCM, Remedy, GIT, CVS, Jenkins, SVN, Tomcat, Bamboo, Jira, Oracle.

**Client: TxDOT, Austin, TX June ‘16 – Sept ‘17 Role: Build and Release Engineer**

**Responsibilities:**

* Migrated on-prem applications to **Google Cloud Platform** (**GCP**) to address scalability and performance issues. Creating of **Google Kubernetes Engine** for manage and orchestrate for **Docker** container clusters of containers which run with Google public cloud.
* Configured and deployed instances on **GCP** environments and Data centers, also familiar with Compute, Kubernetes Engine, Stack driver Monitoring, Elasticsearch and managing security groups.
* Managed **Kubernetes** charts using **Helm**, created reproducible builds of the **Kubernetes** applications and also manage **Kubernetes** manifest files and managed releases of Helm packages.
* Used **Docker** container for deploying micro services, and scaling the deployment using **Kubernetes**.
* Used Terraform as infrastructure as code, execution plans, resource graph and change automation. Managed **GCP** infrastructure as code using **Terraform**
* Building/Maintaining **Docker**container clusters managed by **Kubernetes**, Linux, Bash, GIT, **Docker**, on GCP. Utilized **Kubernetes**and **Docker**for the runtime environment of the CI/CD system to build, test deploy.
* Wrote **BASH and Shell** scripts to automate **crone** jobs and system maintenance. Scheduled crone jobs for

job automation.

* Design, Implement and Build Azure Monitoring for cloud systems and Remote Systems at other sites using Azure Diagnostics, Azure Monitoring agent, **SCOM** and **Splunk.**
* Developing **Microservices**, and creating API’s using Java Spring Boot framework using Maven as a build tool and Oracle as an enterprise level database.
* Developed and automated build scripts and deployed using **ANT and MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Utilized **Puppet** to automate single-command provisioning for development and production environments for an operation tools start up.
* Deployed the Java applications into web application servers like **Apache Tomcat**.
* Installed and configured **Nagios** for monitoring the network bandwidth and the hard drives status.

**Environment:** Shell 7.x, MySQL, Eclipse, GIT 2.6.1, GCP, Microsoft Azure, Tomcat, Apache, Jenkins 0.4.0, Python 3.5.1, JIRA 7.0, Maven 2.5.3., Artifactory, GCP, Java, Puppet 2015.2., Kubernetes, Docker, RHEL 6.x, CentOS, Ubuntu, Solaris, VMware, Git, SVN, Splunk, and Open SUSE LINUX.

**Client:** **Apps Associates, Hyderabad.** **July ‘14 – April ‘16**

**Role: Linux Engineer**

**Responsibilities:**

* Installation, Configuration, Maintenance and Development of about **250+** Linux Servers (Mix of **Ubuntu**, **CentOS** and **RedHat-RHEL**).
* Remotely setup and configured new **VMWare/Linux** installations utilizing SAN and local storage from different vendors.
* Performed day-to-day jobs such as monitoring log files, writing and running the scripts to automatically watch the resources, CPU, memory, I/O, and paging space.
* Monitored System Activities like CPU, Memory, Disk and Swap space usage to avoid any performance issues.
* Installed, configured and administered Jenkins as continuous integration server on Linux machines. Added multiple nodes to Jenkins and configured **SSH** for continuous deployments
* Used **Putty** for reading, writing, executing the **PERL/SHELL** scripts for the secure between Windows.
* Experience of writing some build files like **build.xml** and **pom.xml** using different build tools like **ANT** and **Maven** for packaging and deploying on various environments.
* Involved in Installing **Jenkins** on a Linux machine and created a **Master** and **Slave** configuration to implement multiple parallel builds through a build form.
* Using **JUnit,** wrote unit test cases to test various services and their capabilities and limitations.
* Managed Users and Groups in **Subversion** and involved in troubleshooting client spec issues and user issues.
* **HTTPD**: **Apache web server** maintenance, installation, configuration, managing web hosting including name-based, secure and private site, monitoring web server performance, certificate generate, security checks and periodic upgrades, manage user accounts, back up.
* Responsibilities for all aspects of **Linux administration** including monitoring, **backup and recovery**, security, performance management and any project related activities.
* Follow Change Management process prior to making any changes to **production systems**.
* Monitor and check the status of the servers using the monitoring tools like **IP/monitor, Nagios**.
* Worked with networking team in understanding the limitations of **firewall**, domain controllers, **load balancers** and switches.

**Environment:** RedHat Enterprise Linux, UNIX, Ubuntu server, Centos, Windows, VMware, Perl Scripts, Shell Scripts, C++, SVN, ANT, Maven, Jenkins, Web Logic Scripting Tool, MySQL, DNS, Apache, Tomcat, J-boss, SSH, SFTP, DNS.

**Client:** **Covent Informatics, Hyderabad March ‘12 - May ‘14**

**Role: Software Engineer**

**Responsibilities:**

* Designed and implemented a **continuous build-test-deployment** (CI/CD) system with multiple component pipelines using Jenkins to support weekly releases and out-of-cycle releases based on business needs.
* Involved in all the phases of the **SDLC** from Requirement gathering, Design, Build, Test, Deploy and Support Exhibited high leadership qualities at all levels in academic and professional life.
* Responsible for large-scale **Puppet** implementation and maintenance. Puppet manifests creation, testing and implementation.
* Installed and Configured the **Apache Tomcat** application servers for Dev and Integration Test Environments.
* Responsible for installation & configuration of **Jenkins** to support various Java builds and Jenkins plugins to automate continuous builds.
* Work in migrating code from **SVN** to **GIT** repo (stash/bitbucket), clean the Git repo (purging files).
* Configured and maintained **Jenkins** to implement the CI process and integrated the tool with **Ant** and **Maven** to schedule the builds.
* Use of **ServiceNow** for incident management, change control and task management Redesigned and redeployed the **Nagios** implementation.
* Improve speed, efficiency and scalability of the continuous integration environment, automating wherever possible using **Python, Ruby, Shell and PowerShell Scripts**.
* Implemented Model View Controller (**MVC**) in ASP.NET web page and used **Master Pages**.
* Worked in **agile** modeled software development life cycle. Deployed Java/J2EE applications to Application servers in an Agile continuous integration environment and automated the whole process.
* Designed the **database** tables and created **SQL** Server stored procedures to interact with the database.
* Excellent experience in writing the Unix and shell scripts in order to automate the process of daily monitoring, build and deployment activities.
* Remotely setup and configured new **VMWare/Linux** installations utilizing SAN and local storage from different vendors.
* Responsible for day-to-day **Windows** and **Linux Systems** and Storage administration, monitoring, escalation, reporting and management as required by the managed storage services contract.

**Environment:** Puppet, Jenkins, GIT, VMware, Hyper-V, ANT, Nagios, Python Scripting, Ruby/Shell/PowerShell Scripting, Java, ASP.NET, Database, Linux.

**EDUCATION**:

**BACHELOR OF ENGINEERING, INFORMATION TECHNOLOGY April 2012**

**Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India**

Courses – OOPS Through JAVA, DBMS, Design and Analysis of Algorithms, Software Engineering, OS, Unix Programming, Computer Graphics, Mobile Computing, Scripting Languages, Computer Networks, Cryptography and Network Security, Data Warehousing and Mining, Web Technologies, Mobile Application Development…