**Ghouse**

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**ABOUT ME:**

A very passionate individual with 8+ years of experience in IT industry with extensive experience in **Continuous Integration**, **Deployment**, Release Management and **Cloud Implementations, Linux Administration**, **Configuration Management** across multiple/distributed environments**.** Currently looking for an Organization to contribute my services.

**PROFESSIONAL SUMMARY:**

* Involve in Development, Systems Administration and Software Configuration Management (SCM). Extensive experience includes SCM, DevOps Build/Release Management.
* Skilled at Software Development Life Cycles and Agile Programming & Agile Ops Methodologies.
* Knowledge in working with AWS services, with focus on scalable cloud-native architectural patterns, VPC, **EC2, S3, ELB, RDS**, IAM, Cloud Formation, ACM, **Cloud Watch,** SNS, **Kinesis, Redshift** and **Auto scaling.**
* Experienced in working with **AWS** services from building EC2 instances to **Security** services such as AWS inspector, AWS Config and Guard duty.
* Worked with different cloud infrastructure automation services such as **Terraform** and cloud formation.
* Responsible for operational support activities to ensure high availability and fault tolerance of customer facing web applications hosted on AWS cloud infrastructure.
* Worked on Microsoft Azure (Public) Cloud to provide **IaaS** support to client. Create Virtual Machines through **Power Shell Script** and **Azure** Portal.
* Wrote AWSLambda functions using python **boto3** (AWS SDK) for automation.
* Strong knowledge on **Ansible** Roles, inventory, Ansible Tower, Ansible Galaxy concepts.
* Build additional Docker Slave nodes for Jenkins using custom built Docker images and instances.
* Manage **Kubernetes** charts using Helm. Created reproducible builds of the Kubernetes applications, and provide set of configuration parameters to customize deployment and Managed releases of Helm packages.
* Experience in installing, configuring, updating, supporting and troubleshooting different services like **LAMP** (Linux, Apache, MySQL, PHP), OS level concerns, Web Servers (Apache Web Server, Nginx).
* Container management using **Docker** bywritingDocker files and set up the automated build on Docker HUBandinstalled and configured Kubernetes.
* Worked on **Microservices** for Continuous Delivery environment using **Docker** and **Jenkins.**
* Installed, configured and managed the **ELK** for Log management on EC2**.**
* Building and configuring Red Hat Linux Servers using Kick Start server as required for the project. Maintain maximum uptime and maximum performance capacity for enterprise production, QA and UAT/staging.
* Developed scripts using **Perl** and BATCH files for Automation of Activities and builds, multiple Scripting languages like **Bash, Python,** ShellandPowerShell.
* Involved in writing the **Maven** and **Gradle scripts** for the configuration of J2EE applications.
* Experience in Bug Tracking, Project Management tools like JIRA, ClearQuest and HP Quality Center.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating systems** | Linux (Red Hat 4.x, 5.x, 6.x,7.x), WINDOWS NT/2000/2003/XP/ VISTA/7, UNIX - Sun Solaris v 9, 10, Ubuntu 12.x,13.x,14.x,15.x |
| **Programming/Scripting languages** | XML, Shell, Ruby, Perl, PowerShell, Bash. |
| **Web** and **Application Servers** | Apache, Apache Tomcat, Web Logic, Web Sphere, Nginix, JBOSS. |
| **CI/CD Tools** | Jenkins, Teamcity. |
| **Virtualization** | VMware ESX, ESXi, vSphere 4 and vSphere 5Citrix. |
| **Databases** | MySQL, NOSQL, Oracle 9i/10g, 11g, DB2, SQL Server, Mongo DB |
| **Cloud computing** | AWS, Azure |
| **Version Control Tools** | Git, Bitbucket, SVN, Perforce |
| **Build Tools** | ANT, Maven, Gradle |
| **Repository Management** | Nexus, Artifactory |
| **Containerization** | Docker, Kubernetes, EC2 Container Service |

**PROFESSIONAL EXPERIENCE:**

**Client: US Bank, OH Aug 2019 – till date**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Experienced in Writing Cloud Formation scripts to create VPC’s.
* Worked on AWS service like **EC2, IAM, S3, Lambda, Cloud Watch, Redshift, Dynamo DB, SNS, SQS , SES , EMR ,Elastic Bean Stalk, VPC , ELB , RDS , EBS ,Route 53.**
* Create **CI/CD** pipeline using **Jenkins** and **Ansible** and deployed this infrastructure using terraform on **AWS**.
* Worked on **IAM** servicescreating new IAM users& groups, defining roles and policies and Identity providers.
* Define AWS **security groups** which acts as virtual firewall that controls the traffic allowed to reach one or more AWS EC2 instances.
* Provision **load balancer, auto-scaling group** and launch configuration for Micro-service using Ansible.
* Worked with various components of chef including **Chef** Server, work stations, nodes, and configuration of chef clients and writing recipes for chef and assigning roles to nodes.
* Deployed 3-Tier customer facing application using   **terraform** and Ansible on **AWS**.
* Write **Ansible** playbooks to Manage Configurations of AWS nodes and test playbook on AWS instance using python. Work on Ansible for Configuration Management and Infrastructure automation.
* Setup and Install dedicated **Jenkins** servers for each project.
* Creating Builds for **Continues Integration** (CI) in each server.
* Creating build flow between Jenkins and **Ansible** deploy.
* Deployed **Docker** Containers to several environments as needed. Used Kubernetes for automated deployments, scaling and management of containerized applications across clusters of hosts.
* Utilized **Kubernetes** and Docker for the runtime environment for the CI/CD system to build, test, and deploy.
* Worked on **WebSphere MQ**, Creating Queues, Monitor the server patching activity, Server validations.
* Configured and deployed **GIT** repositories with branching, tagging, merge requests and notifications.
* Implemented **Maven** builds for creating **JAR, WAR** and **EAR** artifacts.
* Used **Atlassian** products like **JIRA** for issue tracking and code integration to plan and collaboration, used Dev tools to host, review, test, and deploy team's **Git** and Mercurial code.

**Environment:** Jenkins, GIT, AWS, Maven, JIRA, MySQL, Ansible, Terraform, Docker, Kubernetes, Linux, Nexus

**Client: Cummins, Indianapolis Apr 2018 – Jun 2019 Role: AWS DevOps Engineer**

**Responsibilities:**

* Replaced existing manual deployment and management processes with **Chef**, **Ansible** and AWS Ops Works stacks across 4 product platforms.
* Utilize **AWS CLI** to automate backups of ephemeral data stores to **S3** buckets, EBS and create nightly AMI for mission critical production servers as backups.
* Created continuous deliveryworkflow using **docker** and **ansible** to accelerate application delivery and build scalable architecture platforms.
* Continuously test, build and release and continuously deploy application to **AWS** by leveraging **EC2** containerservice for running docker containersin production using **Terraform.**
* Built a **CI/CD Pipeline** using Amazon **Code Pipeline** and Elastic Bean Stalkin automated fashion**.**
* Configured local Maven repositories and multi-component **Ant** projects with Nexus repositories and scheduled projects in **Jenkins** for continuous integration.
* Configured deployed and managed application software in a containerized environment using **Docker** Docker-Compose and Docker Swarm.
* Wrote **Python** unit test cases and wrote **Python boto3** scripts to delete default **VPC’s.**
* Wrote shell scripts using languages like **Bash**, Python to automate day to day administration jobs.
* Installing and configuring **Jenkins** master and slave nodes. Built CI/CD pipeline and managing the infrastructure as code using **chef.**
* Knowledge in **performance tuning** using indexing (Cluster Index, Non-Cluster index) tables.
* Created and implemented **chef** cookbooks for deployment. And also used Chef Recipes to create a Deployment directly into EC2 instances. Setup **Chef** Server, workstation, client and wrote scripts to deploy applications.
* Built AWS VPC’s from scratch using **terraform.** For AWS **cost optimization** configured S3 bucket life cycle policies to move data from standard storage to glacier and infrequent access.
* Managed an **Elastic search Logstash** and **Kibana (ELK**) cluster.  Wrote software in **python** and **ruby** to automate various system administrator tasks.
* Worked with **Ansible** **playbooks** for virtual and physical instance provisioning, configuration management,patching and deployment on AWS environments through automated tools, Ansible / custom pipeline.
* Using **Jenkins** **AWS** Code Deploy plugin to deploy and Chef for unattended bootstrapping in AWS
* **Leveraged Route53** health checks to perform automatic failovers during outage.
* Wrote cloud formation scripts to deploy **S3** SNS Lambda to trigger Step Functions state machine when an object is created in S3 bucket.
* Configured commercial **SSL certificates** for Applications Servers such as WebSphere, WebLogic, Tomcat using NGINX and Apache web servers to terminate SSL endpoint.
* Used **Kubernetes** for automated deployments, scaling and management of containerized applications across Cluster of hosts.
* Wrote **Cookbooks** and **Playbooks** for configuring server side through **chef** and **Ansible**, used bash to automate for deployment process.
* Worked on installation, configuration and maintenance Red hat and Suse Servers at multiple Data Centers.
* Deployed **Puppet**, Puppet dashboard for configuration management to existing infrastructure.

**Environment:** AWS, Chef, Terraform Python, ELK, New Relic, Maven, Jenkins, WebSphere, GIT, VMware, Nexus, Docker, Ansible, Kubernetes.

**Client: Neoteric Hovercraft, Indiana Jul 2017 - Apr 2018**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Implemented Jenkins pipeline for continuous deployments. Installed and configured **Jenkins** CI/CD Digital River pipelines, installed plug-ins, **configured security,** created a master and slaves for implementation of multiple parallel builds**.**
* Managed multiple **cookbooks** in **Chef** and Implemented environments, roles, and templates in **Chef** for better environment management. Written multiple cookbooks in **Chef** using **Ruby scripting** language.
* Assessing AWS infrastructure feasibility for a web application based entirely on Cloud. Testing End- End implementation compatibility on **AWS** using **Ansible**.
* Created Web Application servers on **AWS EC2** instances behind a Regional Load Balancer.
* Stored data for the Web Application in **S3** **buckets** with a Cloud Distribution Network (**CDN**) to reduce load times for frequently accesses objects. Provisioned Amazon **RDS** instances in auto scaling configuration**.**
* Responsible for creating central **repositories**, **branches**, **tagging** and **merging** in Subversion.
* Merged Projects Streams with **Release** Streams after the frozen/production release and resolved the conflicts during the merging on **GIT**.
* Authored Ant/Maven scripts to automate entire build process. Migrated ANT projects into Maven for better build performance. Developed build scripts using Maven for creation of build artifacts like war or ear files.
* Configured Jenkins to pull and **build** **changes** in code on a timed cycle and **integrated** the build deployment with Selenium for Testing.
* SQL **Server** Providers for **logging** to capture information about a package at **run time**, making it easier to **troubleshoot** package **performance** and **failure**. Performed **package**, **container**, and task **level logging**.
* Automated the sonar code coverage reports using **Jenkins DSL Scripts**.
* Developed Bash, Python scripts to automate application migration and monitor health during migration.
* Custom built **Docker** containers. Deployed **Docker** containers to several environments as needed.
* Configuration of **Ansible** modules for **AWS** cloud deployment.
* Migrated **Sonar** to 6.1 using Terraform on AWS with zero downtime following blue/green deployments.
* Deployed artifacts into WebLogic/WebSphere servers. Automated Web server provisioning using Puppet. Wrote Puppet manifests to preserve system state for maintenance.
* Experienced in Certificate Management for deploying the **SSL/TLS Certificates** with secure communications and for identity for website.
* Experience with the network security configuration and OS management in the organization by administrating the tools **Netstat, Tcpdump, Curl, keytool.**
* Configured with AWS resources such as **EC2, VPC, Route53, ELB, S3, EMR**, supporting networking and management/monitoring services.
* Utilized **S3 Data pipeline** to move data to AWS **Redshift** and application data migration.

**Environment:** Jenkins, Ansible, AWS, GIT, SonarQube, Maven, Docker, Terraform, Apache Tomcat, Node.JS, Chef, Selenium, Shell, Linux, Mongo DB, MYSQL.

**Client: Indiana State University Jul 2016 - May 2017**

**Role: Jr DevOps Engineer**

**Responsibilities:**

* Performance tuning of WebSphere application server including JVM, Garbage collection, with **server logs**.
* Used Amazon Workspace in AWS console. Created, monitored and deployed applications
* Developed and built a generic REST API layer to support multiple cloud providers like **OpenStack**.
* Wrote Ansible Playbooks with Python **SSH** as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python.
* Implemented **python** bindings to OpenStack API to automate by making calls on OpenStack objects.
* Analyze and resolve compilation and deployment errors related to code development, branching, merging and building of source code and performed all necessary day-to-day **GIT** support for different projects.
* **Troubleshoot** automation of installing and configuring applications in testing & production environments.
* Maintained build scripts developed in ANT & Shell. Modified build configuration files including Ant build.xml.
* Deployed code on **WebSphere** application servers for Production, QA, and Development environments.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with **Java, Php, Python, Ruby**, and Docker on familiar servers such as Apache, and IIS.
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, SVN/GIT with Dev/Test/Prod Branching Model for weekly releases.
* Used Cloud-Native approach to build & run applications that exploits advantages of cloud computing model.
* Responsible for the **Plugin Management**, User Management, Build/Deploy **Pipeline Setup** and End-End Job Setup of all the projects.
* Extracted the data from **MySQL**, Oracle, **SQL Server** using Sqoop and loaded data into Cassandra.
* Worked with **PowerShell** to automate **SQL** tasks, environment management related tasks and procedures.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create

**Environment:** AWS, REST, Chef, Ansible, Vagrant, Scrum, ANT, UDeploy, DB2, Shell Scripts, WebSphere, Oracle.

**Client: Genpact, India Jun 2013 - Dec 2015**

**Role: Build & Release Engineer**

**Responsibilities:**

* + As member of Release Engineering group, redefined processes and implemented tools for software builds, **patch creation**, source control, and release tracking and reporting, on Linux platform.
  + Installed and configured Jenkins for Automating Deployments and providing an automation solution.
  + Integrated GIT into **Jenkins** to automate the code check-out process. Migrated Projects from **SVN** to **GIT**.
  + Worked with Ansible to write playbooks to deploy applications to **tomcat** application server.
  + Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
  + Automating the regular tasks in Subversion and streamlining the process of access to SVN.
  + Developed build and deployment scripts using ANT and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
  + Responsible to perform Build operations with **ANT** Scripts, while implementing the required modifications in the ANT Script to perform build operations, in accordance with requirements.
  + Configured Host, Proxy and Virtual repositories based on the requirements to share artifacts within company.
  + Prepared, arranged and tested **Splunk** search strings and operational strings. Created and configured management reports and dashboards. Dealt with **Jira** as ticket tracking and work flow tool.
  + Releasing code to testing regions or staging areas according to the schedule published.
  + Experience working with **Puppet** Enterprise and Puppet Open Source. Installed, configured, upgraded and managed Puppet master, agents & Databases.
  + Implemented Puppet Master to automate configuration of various services and wrote modules for **deploying, configuring, managing** and **monitoring** and worked on Puppet Servers extensively for deployment for servers, creating custom services and managing changes through Puppet master server on its clients.
  + Used **Puppet server** and workstation to manage multiple platform servers and Automated Linux production server's setup and replicate production build environments on a local dev boxes using Puppet Scripts.
  + Deployed web applications using **puppet** and production experience in supporting with 500+ servers and involved in developing manifests.

**Environment:** Linux, Jenkins, AWS, Puppet, Ansible, Windows, Bitbucket, Subversion, GIT, ANT, MAVEN, Jira.

**TBS IMPEX, Hyderabad, IN Mar 12 – May 13**

**Role: Jr UI Developer**

**Responsibilities:**

* Assisted colleague in various phases of Software Development Life Cycle (SDLC) such as requirement gathering, modeling, analysis, architecture design & development
* Development of user interface using and dynamic web pages using **PHP JSP**, HTML, CSS and JavaScript
* Hands-on experience in working with XML related technologies such as XML Schema, **XSL**, and **XSLT**
* Tested frontend code in multiple browsers to ensure the **cross-browser** compatibility.
* Wrote unit test cases for the JavaScript code using **Karma** & the automated the application using the protractor e2e test as a part of test driven development.
* Wrote and deployed Servlets on Application servers such as Websphere, Tomcat and Weblogic
* Responsible for user validations, Authentication on client side and server side
* Development of the Java classes to be used in **JSP** and **Servlets**
* Used Hibernate for persistence to Oracle. Wrote with PL/SQL procedures, create & updated databases.
* Used **JDBC** to retrieve data from Oracle, and created API’s to utilize data and send across multiple services
* Developed build scripts using **Ant**, used GIT and **Subversion** for version control

**Environment:** J2EE, JSP, Servlets, JDBC, CSS, Java, JavaScript, WebSphere, JQuery, Tomcat,, Oracle, Bower, Maven