**PUSPA LAL KHANAL Tel: 717 2835548**

**Software Engineer Email: khanalpuspa70726@gmail.com**

**Work Authorization: USC**

**PROFESSIONAL SUMMARY**

* Knowledge in AWS Resources like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Formation, Cloud Watch, Security Groups.
* Set up the scripts for creation of new snapshots and deletion of old snapshots in S3 using S3 CLI tools.
* Knowledge in terraform for building, changing and versioning infrastructure.
* Knowledge setting up and maintaining auto-scaling AWS stacks using Terraform and scripting
* Knowledge implementing Capability deployment using terraform scripts
* knowledge use of terraform as an infrastructure as code in order to automate the tools to create required services in AWS.
* Experience on Production systems troubleshooting, root cause analysis, performance monitoring, and improvements.
* Worked with Amazon IAM console to create custom users and groups.
* Knowledge in working on source control management tools like GIT (GitHub), and creating GIT repositories with specified branching strategies.
* Knowledge in using build tool MAVEN for the building of deployable artefacts such as war from source code.
* Knowledge in implementation and maintenance of Apache HTTP, SMTP, DNS, TCP/IP, Security Management & Security trouble shooting skills.
* Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins.
* Configured and administered Jenkins for automated builds Responsible for installing Jenkins master and slave nodes.
* Knowledge of using DSL Groovy Scripts which helps to create Jenkins Jobs similar to DEV environment in PROD during deployment
* Knowledge in automating builds and deployment process using Bash, Python and Shell scripts.
* Strong knowledge on source controller concepts like Branches, Merges and Tags.
* Knowledge constructing a RESTful API to manage infrastructure services using Python.
* Knowledge configuring ‘Nginx’ for proxy RESTful API calls to micro-services in Docker containers.
* Familiar with designing and deploying container-based production clusters using Docker.
* Knowledge with Docker container service. Creating Docker files, Docker Images & Containers.
* Experience with container based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Experience implementing a production ready, load balanced, highly available, fault tolerant Kubernetes infrastructure.
* Experience implementing cluster services using Docker and Kubernetes
* Experience automating Compute Engine and Docker Image Builds with Jenkins and Kubernetes.
* Experience creating Kubernetes YAML file for the deployment in Kubernetes Cluster
* Experience using DSL Groovy Scripts which helps to create Jenkins Jobs similar to DEV environment in PROD during deployment
* Experience using Jenkins and pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Experience developing RESTful API for cloud management solutions based on Kubernetes platform.
* Experience troubleshooting and deploying web application servers like WebLogic, and Apache Tomcat.
* Experience Deploying Microservices in Docker Containers using the Docker Images pushed to Docker Trusted Repository built by using Docker File
* Knowledge in back-end language like Python, Ruby on Rails, and basic knowledge in Java
* Knowledge in front-end language like HTML, CSS, JavaScript

**TECHNICAL SKILLS:**

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| --- | --- |
| **Technologies** | **Tools** |
| **Operating Systems** | Linux, Windows Server |
| **App & Web Server packages** | Apache Tomcat, nginx |
| **Programming Languages** | PHP, Python, java |
| **Scripting Languages** | Shell, Bash, Groovy, Ruby on Rails |
| **SCM Tools** | GIT |
| **Build Tools** | Maven, Ant |
| **CI-CD Tools** | Jenkins |
| **Binary Mgmt. Tool** | Jfrog Artifactory |
| **Tracking / Change Mgmt. Tools** | JIRA,Trello, Kanban |
| **Code Quality Tool** | SonarQube |
| **SOA/Web services** | REST |
| **CM / Provisioning Tools** | Terraform Template and cloudformation |
| **Containerization Tools** | Docker |
| **Container Management Tools** | CCS, EKS |
| **Cloud Computing** | AWS |
| **Logging & Monitoring Tools** | Splunk,ELK |

**WORK EXPERIENCES:**

**Client: Inseego, Eugene, OR June 2019 – June 2020**

**Role: DevOps Engineer**

**Responsibilities:**

* Create and maintain automated systems for continuous integration and continuous deployment.
* Apply the latest industry advancements to improve infrastructure reliability, scalability, performance, and repeatability of setup and deployment.
* Work on multiple tasks in support of one or more projects that require a singular area of expertise.
* Work as a project team member, or independently on small projects.
* Increase your skill in multiple technical environments and knowledge of a specific business area.
* Create and maintain monitoring and alerting solutions to ensure that any unexpected issues are promptly identified and escalated.
* Work collaboratively as a team player to develop mutually acceptable solutions among Development, Information Technology and Product Teams.
* Solve problems and provide support, taking responsibility to make decisions when appropriate.
* Understand applications from a technical architecture and business goals perspective to apply DevOps best practices.
* Excellent communications skills with the ability to share insights and expectations with clients, stakeholders and colleagues, both locally and remote.
* Networking or System Administration role.
* Experience scripting and automating deployments and management of IT solutions
* Broad understanding of tools and technologies with a preference for Amazon Web Services (AWS), Jenkins, and Git.
* Source Control (Git, Bitbucket)
* Continuous Integration (Jenkins)
* Infrastructure Automation (Ansible)
* Deployment Automation & Orchestration (Jenkins, Ansible)
* Container Concepts (Docker)
* Cloud (AWS)
* Build and deployment of cloud based and hybrid-cloud solutions with Jenkins, Git.
* Strong operational experience in Linux/Unix environment and scripting (Python, Shell)
* Experience with configuration, automation management, health checks, single point of failure, notifications in AWS environments.
* Monitoring tools (Elk)

**Environment:** GIT, GitHub, Jenkins, Maven, Tomcat, Jira, Shell-Scripts, Python, Nagios, WebLogic, Java, AWS, GitLab

**Client: Pubforge, Lancaster, PA Jan 2019 - May2019**

**Role: Software Engineer(internships)**

**Responsibilities:**

* Maintained file systems: Checking and repairing file systems and monitoring file system usage.
* Working on source control management tools like GIT (GitHub), and creating GIT repositories with specified branching strategies.
* Strong knowledge on source controller concepts like Branches, Merges and Tags.
* Designed, implemented and deployed (WordPress)
* Developed project scope and created concept
* Maintained schedules and assured on-time delivery of content
* Solve problems and provide support, taking responsibility to make decisions when appropriate.
* Monitoring tools (Splunk)
* Excellent communications skills with the ability to share insights and expectations with clients, stakeholders and colleagues, both locally and remote.
* Create and maintain monitoring and alerting solutions to ensure that any unexpected issues are promptly identified and escalated.
* Continuous Integration (Jenkins)

**Environment:** GIT, GitHub, Jira, WordPress, Slack, Splunk, Jenkins and Scrum,

**Client: IT Export Nepal, Jhapa, Nepal May 2013– June 2015**

**Role: DevOps/Cloud Engineer**

**Responsibilities:**

* Developed bash scripts for the purpose of manual deployment of the code to different environments.
* Backed up and restored configurations and data of various tools (Subversion (SVN), Jenkins, WAS), databases (oracle, db2) and servers (windows, RHEL) as required.
* Managed the GIT branching strategy for a few applications by creating Release branches, Development branches.
* Used the pom.xml file from Maven and gave Maven as a plugin to Jenkins to automate build process.
* Configured Jenkins daily periodic backups for Jenkins configuration and plugins files.
* Deployed the Java applications into web application servers like Apache Tomcat.
* Managed Source code using SVN/GIT and used the concepts of branching, merging and tagging for release management
* Configured and managed a network of Linux and Windows servers.
* Worked with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Maintained file systems: Checking and repairing file systems and monitoring file system usage.
* Developed build scripts using ANT as the build tool for the creation of (WAR files) build artefacts.
* Involved in troubleshooting the automation of Installing and configuring JAVA applications in the test and pre-production environments.
* Deployment and implementation of Chef for infrastructure as code initiative.
* Deployed the archives like war files into the Tomcat Application Server and TCP Servers.
* Involved in editing the existing ANT build files in case of project requirement changes.
* Responsible for the development and maintenance of processes and associate
* Setup Jenkins server for build and test applications
* Maintained ant build script including build.xml and pom.xml
* Experience managing Apache Tomcat Application Server

**Environment:** Jenkin, GIT, GitHub, Jenkins, Maven, Tomcat, Jira, Shell/Perl Scripts, Python, Nagios, WebLogic, Java, Python

**EDUCATIONS:**

Thaddeus Steven College of Technology

Associate Degree of Applied Science: Software Engineer

750 E King St

Lancaster, PA 17602

Graduation date: May, 2019

**REFERENCE**:

* Thaddeus Steven College of Technology

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