**Karthik Srinivasalu**

**Cloud DevOps Consultant**

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**PROFESSIONAL SUMMARY**

Expertise in solving complex with Creative solutions in Automating, Configuration Management, Cloud Infrastructure, Amazon Web Services (AWS), Building, Deploying, and Releasing of code across multiple environments. Extensive knowledge of Software Development Lifecycle (SDLC), familiar with Agile/SCRUM, Kanban Lean Methodology and Software Testing Lifecycle (STLC). Experience in Infrastructure Development and Operations involving AWS Cloud platforms, EC2, EBS, S3, VPC, Autoscaling, Cloud Formation, Elastic Cache, Cloud Watch, SNS. Strong knowledge of AWS services like Elastic Load Balancers (ELB), Cloud Watch, RDS, SWF and its provision using AWS CLI.

**Skill Matrix**

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| --- | --- |
| **Operating System** | Windows, Unix, Linux |
| **Version Control** | Git, Git-hub, SVN |
| **CI / CD** | Team city, Jenkins, Puppet, Ansible, SonarQube |
| **Build** | Maven, ANT, Gradle |
| **Repository Manager** | Nexus, Jboss |
| **IaC** | Cloud Formation, Terraform |
| **Scripting** | Shell, Python, Ruby (Puppet) |
| **Containers** | Docker, Kubernetes |
| **Cloud Computing** | AWS, Azure |
| **Language** | XML, HTML, |
| **Application Server** | Jboss, Apache, Nginx, Tomcat |
| **Database** | Cassandra, MySQL, Oracle, DynamoDB |
| **Monitoring** | Rally, Nagios, Splunk, ELK |
| **Batch Scheduler** | Autosys Sendevent |

**Professional Experience**

**UBS, Weehawken, NJ** **April 2019 to Present
Cloud DevOps Consultant

Responsibilities:**

* Experience in closely working with the Software Engineers to help them deploy and operate different systems, & infrastructure components.
* Responsible for end to end Project Release Management.
* Manage the methods of deployment (development, testing and production).
* Manage Big Data Systems from deployment and service management viewpoint including NoSQL databases

(e.g. Cassandra, DynamoDB), Spark (e.g. Databricks), Search Engines (e.g. SOLR),Distributed File System.

* Created and maintained scalable and secure infrastructure using EC2 with Elastic load balancing and
Auto scaling groups in AWS cloud.
* End to End solution for hosting the web application on AWS cloud with integration to S3 buckets.
* Created IAM policies for the group level privileges to EC2 instances and S3 buckets.
* Configured VPCs within the subnet groups and CIDR ranges. Configured inbound and outbound
security groups for EC2 instances.
* Very good hands on experience in using GIT and subversion as a version control tool.
* Hands on experience on Jenkins files in writing Groovy, for setting up of continuous integration and
continuous deployments.
* Experience in automating the AWS resources by using Ansible/Chef/Terraform.
* Extensive experience using MAVEN, Gradle and ANT as a Build Tools for the building of deployable
artifacts (war & jar) from source code.
* Experience with container based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Build servers using AWS including importing volumes, launching EC2, creating security groups, auto-
scaling, load balancers in the defined virtual private connection.
* Experienced in setting up of AWS relational databases like MSSQL and NOSQL database DynamoDB.
* Experienced in automation using Python, Ruby and UNIX Shell/bash scripting Extensively worked on AWS Cloud platform and its services EC2, VPC, EBS, AMI, RDS, EBS, Cloud Watch, Cloud Formation, Auto scaling, Cloud Front, IAM and S3.
* Manage the continuous integration systems used to build software products (e.g. TeamCity and Maven).
* Manage the software development tools used by the development team and ensure they are scalable and failure proof.
* Champion changes to tools and processes to improve the efficiency and effectiveness of the development team.
* Manage issue tracking and Agile development tools (Atlassian JIRA),
* Setup an Monitoring dashboard for the application.
* Automate parts of the development delivery process using scripts and other appropriate tools.
* Devise and develop analytical methods and tools to measure the efficiency of products and processes.

**Technical Skills:** – Microsoft Project, Unix, AWS, Cassandra, Spark, SOLR, Oracle, Shell Scripting, Database design, Kafka, Team city, Puppet, Team City, Jenkins, , Nexus, GitHub, Puppet, UBS Deploy, Autosys-scheduler, AOSS, ServiceNow, Atlassian-JIRA, Apache and Datastax OpsCenter,.

**HCL Americas, Cary , NC October 2018 to April 2019**

**Cloud DevOps Consultant.**

**Responsibilities:**

* Involved in designing and deploying multitude applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.
* Maintained the user accounts IAM Roles, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
* Used AWS services such as IAM, route 53, EC2, EBS, AMI, Auto scaling, VPC, Load balancer, RDS, VPC, ECS, Cloud watch, Cloud formation, SNS, etc.
* Used AWS services to launch many instances at a time with the help of terraform scripts.
* Evolved new tools/methodologies to improve this existing process and show better results to all stakeholders.
* Written Maven scripts, Installed Jenkins, written shell script for end to end build and deployment automation.
* Setup various Team Projects into different Team Project Collections in TFS 2013.
* Supported the code builds by integrating with continuous integration tool (Jenkins).
* Extensively worked on Jenkins by installing, configuring and maintaining for the purpose of continuous integration (CI) and for End to End automation for all build and deployments.
* Built Continuous Integration environment, Continuous delivery environment and Integrated delivery (CI and CD process) Using Jenkins, Nexus, Yum and puppet.
* Developed Puppet modules to automate deployment, configuration, and lifecycle management of key clusters.
* Performed merging and tagging need to be done after the code went live in environment.
* Maintain a Live Like environment to test any production issues on the setup and push it into production.
* Worked on various Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Worked on high-volume crash collecting and reporting system, built with Python.
* Configuration Management using GIT and maintaining admin related files.
* Automating the regular tasks in Subversion and streamlining the process of access to GIT.
* Provided end-user training for all GitHub users to effectively use the tool.
* Developed unit and functional tests in Python and Java.
* Used GIT version control to manage the source code and integrating GIT with Jenkins to support build automation.
* Migrated Projects from SVN to GIT.
* Maintained QA environment and solved issue of QA and maintain DB version according releases. Also published code and DB on production and staging as per business requirement.
* Created extensive documentation, including straightforward how-to procedures for common administrative tasks.

**Technical Skills / Tools** : SCM, SVN/Git/GitHub, ITIL, ELK, Nagios, JIRA, Maven, CVS, Ansible (Playbooks, Inventory), RedHat, Linux, Oracle DB, Puppet, Team City, Jenkins, , Nexus, GitHub, Puppet, UBS Deploy, Autosys-scheduler, AOSS, ServiceNow, Atlassian-JIRA, Apache and Datastax OpsCenter, AWS, Terraform, CloudFormation, Ansible, Jenkins, Docker, Kubernetes, Git, ANT, Maven, Shell, PowerShell, Python, Ruby, Tomcat, Jboss.

**Unisys India Ltd, Bangalore, India May 2012 to Apr 2016**

**DevOps Consultant.**

**Responsibilities:**

* Created release pipelines using GIT, Ansible Playbooks for automated workflow.
* Develop and enhance the automated configuration management system.
* Maintain and enhance current build procedures for all software development projects.
* Branching and merging of the code base in git.
* Used Maven to perform daily and weekly Software Builds.
* Hands on experience on JIRA for creating bug tickets, storyboarding, pulling reports from dashboard.
* End to end release management.
* Schedule / Review project releases for various teams within the application.
* Automate test environments as the commits.
* Written minor cron jobs within the pipeline.

**Technical Skills / Tools :** Linux, Maven, GIT, SVN, ANT, Jenkins, Remedy, Nagios, Shell Scripts,

**Komli Ads, , Bangalore, India April 2011 to April 2012**

**DevOps Engineer**

**Responsibilities:**

* DevOps engineer for a team that involved multiple development teams with parallel releases.
* Created release branches in GIT by GIT Administration like branching reporting and assisting with project and end user support.
* Integrated GIT into Jenkins to automate the code checkout process.
* Developed Ant and Maven scripts for builds.
* Configured Jenkins jobs for Continuous integration.
* Integrated Jenkins with the version control tools to pull the latest pushed code.
* Experience in creating Jenkins Environment and configuring end to end build pipeline.
* Develop, deploy, and maintain automation for applications in the AWS environment.
* Developed recipes, Installed and configured Chef for automated infrastructure deployment of applications.
* Installed and configured Nagios to constantly monitor network bandwidth, memory usage, and hard drive status.
* Monitor builds and provide proactive support to resolve any build issues.

**Technical Skills / Tools** : Linux, Maven, GIT, SVN, ANT, Jenkins, Remedy, Nagios, Shell Scripts,

**Akamai Technologies, Bangalore, India August 2010 to March 2011**

**Linux Admin (Intern)**

**Responsibilities:**

* Responsible for installing and configuring CentOS and Solaris platforms.
* Responsible for software configuration management (SCM) using SVN, Hudson and JIRA tools.
* Worked on logical volume management (LVM) by adding external disks from SAN storage.
* Responsible for User and Group Management.
* Responsible for providing Privileged Password Management access to accounts in Solaris 10, Linux and windows servers.
* Installed and configured subversion on both Linux and windows platforms.
* Managed all the subversion repositories for branching and tagging.
* Worked closely with Project Managers, Developers and QA Analysts to ensure successful software build and deployment for test, staging and production environment.
* Developed shell scripts for automating various tasks (logs cleaning, backup applications, backup database files).
* Installed and configured Apache HTTP, Apache Tomcat and JBoss on Linux production servers
* Resolved update, merge and password authentication issues in Bamboo and JIRA.
* Troubleshooting issues riced during the build and deployment process.
* Worked on creating scripts for deleting the old deployed code and deploy the newly built code on application servers Tomcat and Web Sphere.

**Technical Skills** : CentOS, Solaris, JIRA, Subversion, Bamboo, JIRA, Web Sphere, Tomcat, SAN, Bash Shell scripting, Java, C++, Java/J2EE, SOA Software, Unix, Maven, GIT, SVN, ANT, Jenkins, Remedy, Shell Scripts, Web Sphere.

**Educational Details**

**Master of Science Project Management – Class of 2019**

Harrisburg University of Science and Technology, Harrisburg, PA, USA

**Bachelors of Business Management – Class of 2011**

PES College of Business Management, Bangalore University, Bangalore India.

**Certifications :**

**Certificate Name** : AWS SysOps Admin

**Issuing Organization** : Amazon Web Services

**Credential ID** : FQ9HLTTKJN1Q1QWR

**Certificate Name** : Scrum Master Accredited (SMAC)

**Issuing Authority** : International Scrum Institute

**Credential ID** : 86319822055287