**Akhil VADLAKONDA**

**DevOps Engineer**

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**519-871-7857**

**Professional Summary:**

* With over 5 years of experience in the IT industry, I am a seasoned System Administrator and DevOps Engineer skilled in automated environments and Linux System Administration. I have extensive expertise in working with RHEL, CentOS, Ubuntu, and Windows environments, as well as VMware vSphere.
* Worked on AWS and Azure cloud platforms, utilizing key services like EC2, S3, Lambda, and AKS to enhance system performance and scalability.
* Excellent work experience in Software Development Life Cycle (SDLC), Project Management, Project Release, and Configuration Management Plans.
* Experience in development and configuration experience with software provisioning tools like Chef, Puppet, and Ansible, scripting with Bash and Python
* Worked with various services of Amazon Web Services (EC2, S3, CloudFormation, OpsWorks, etc.)
* Experience with Linux technologies such as Tomcat, JBOSS, Apache, and ActiveMQ
* Knowledge base on WebSphere, .NET, Tomcat Application Servers.
* Experienced in Cloud Automation using AWS CloudFormation templates, Python, Ruby, Ansible, and Puppet.
* Experience with Ansible Tower to manage Multiple Nodes and Manage Inventory for different Environments
* Expertise in configuring and managing services like AWS EC2 using AMIs available.
* Configured multiple servers depending on application needs, using continuous integration tools like Jenkins
* Designed and implemented automation deployment using Urban Code to promote major releases, monthly releases, and patches from Development, Test, Staging, and Production.
* Hands-on experience in installing and configuring Puppet server-clients and writing Puppet Manifests to automate infrastructure.
* Experience in setting up the build and deployment automation for Terraform scripts using Jenkins.
* Experience in managing Chef as a Configuration management tool by developing Chef Cookbooks and Recipes.
* Experience in automating the release process of products using shell scripts with tools like Apache Ant and Maven.
* Expertise in using various repository management tools like Sona type Nexus and Artifactory to deploy and manage artifacts. Configure bug tracking tools like JIRA.
* Expertise in configuring Log monitoring tools like ELK (Elasticsearch, Logstash & Kibana), Nagios, Splunk, Filebeat, and Grafana to monitor logs of applications in prod and non-prod.
* Worked with code quality tools like SonarQube to find issues in the code by setting Quality Gates, Quality Profiles, and Quality Rules.
* Experience in setting up and maintaining entire Jenkins, Bitbucket, and Bamboo for continuous integration and continuous deployment (CI/CD) for end-to-end automation for all builds and deployments.
* Integrated Jenkins with tools like Git (Repository), Maven (Build tool), SonarQube (code verification), Nexus (Artifactory), and implemented CI/CD automation for creating Jenkins pipelines programmatically.
* Expertise in troubleshooting the problems generated while building and deploying in a multi-component environment, and as part of production release support.
* Used the ECS Blox framework and used its Daemon Scheduler to launch the Log monitoring agent on every node.
* Worked with Vagrant to automatically provision multiple virtual machines.

**Skills Summary:**

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| Operating Systems | RHEL 5.x/6.x/7.x/8.x, Ubuntu, Centos, Windows Server |
| Cloud Platform | OpenShift, AWS, Azure |
| Build/Automation Tools | Puppet, Chef, Ant, Maven, Ansible, Jenkins, Terraform, Bamboo, Docker |
| Languages | Shell, Bash and Python scripting |
| Database | MySQL, MongoDB, SQL Server |
| Web/Application Servers | Apache Tomcat, WebSphere Application Server, JBoss |
| Monitoring Tools | Splunk, Nagios |
| Version Control Tools | SVN, Git Hub, Subversion, Bitbucket |
| Web Programming | Servlets, JDBC, XML, HTML, Python, Shell scripting, C, C++, Ruby, Perl scripting |
| Bug Tracking Tool | JIRA, HP Quality Center, JUNIT, IBM ClearQuest |

**Education:**

* Bachelor's in Computer/Information Technology Management from JNTU, India.
* Information Technology from Fanshawe College, Canada

**Professional Experience:**

**Amazon Jun 2020 – Jun 2023**

**DevOps Engineer / Cloud Engineer**

**Responsibilities:**

* Designed secure, cost-optimized, highly available and resilient infrastructure, improving uptime by 25% and ensuring full data integrity and security by implementing AWS best practices.
* Built a set of security policies which help in identifying, categorizing and protecting the assets on AWS, managing access to AWS resources.
* Installed, configured, and maintained Kubernetes clusters and containerized applications, reducing manual deployment time by 40%.
* Working on the code in configuring and integrating the servers in different environments to automatically provision and create machines using Configuration/provisioning tools like Ansible.
* Worked on installation and configuration of Apache Kafka in a cluster mode as well as with multiple brokers.
* Worked on Ansible playbooks for Kafka, Grafana, Prometheus, and its exporters.
* Managed infrastructure resources, including physical machines, VMs, and Docker containers using Terraform, improving deployment consistency by 50%.
* Worked extensively in the .NET Core environment to write PowerShell scripts.
* Implemented AWS IAM key rotation in the application, using AWS Secrets Manager. And used IAM services to create new IAM users, groups, roles, policies and identity providers.
* Deploying the Java applications into web application servers like Apache Tomcat.
* Create and maintain users' access policies using AWS IAM, LDAP and OKTA.
* Enabled Cloud Trail across the geographic regions and AWS services to prevent activity monitoring apps.
* In-depth DevOps experience designing and implementing ALM Continuous Delivery and solutions using tools such as MSBuild, NuGet, TFS, Octopus Deploy, Puppet, Chef, VMWare, etc
* Reported project plans, risks, and customer scope changes to senior management, providing visibility for 10+ major initiatives.
* Infrastructure development on AWS using various services like EC2, S3, Route 53, CloudFormation, CloudWatch, and IAM.
* Worked on Kubernetes in scheduling and running containers on Cloud Environments, and worked with container systems like Docker and container orchestration like EC2 Container Service, Kubernetes with Cloud Formation.
* Used Python programming in the Linux platform to design the front-end portion of the plug-in.
* Assisted in designing, setting up, configuring and migrating systems to commercial cloud environments.
* Converted existing AWS architecture to serverless architecture (AWS Lambda), deployed via Terraform and AWS CloudFormation.
* Developed Ansible playbooks for Application hotfix drops, kernel patch management and other Server and Application lifecycle management tasks.
* I have created security at all levels using NACL (subnet), Security groups and IAM (users).
* Installed and configured Apache Tomcat and Nginx application servers by using Ansible playbooks.
* Developed and maintained continuous integration and deployment systems using Jenkins, ANT, Maven and Ansible.
* Used Ansible Tower, which provides an easy-to-use dashboard and role-based access control, so that it's easier to allow individual teams access to use Ansible for their deployments.
* Wrote Ansible YAML scripts to configure management and infrastructure automation.

**Environment**: Amazon Web Services (AWS), Terraform, Jenkins, Docker, Linux, New Relic, Chef, Ansible, AWS S3, Apache Tomcat, Groovy, Kubernetes, Nexus, Jira, GIT, Restful API's.

**V-Cyan IT Services Pvt. Mar 2018 – May 2020**

**System Engineer**

**Responsibilities:**

* Automated installation, deployment, and maintenance of Middleware Application Servers on RHEL dev/test environments.
* Used AWS CloudFormation + Puppet to automate full-stack deployments, from infrastructure to applications.
* Built and deployed PaaS apps on the OpenShift platform (including S2I workflows).
* Managed cloud provisioning with VMware Orchestrator, vRealize Automation, and vSphere; created blueprints, catalogues, and entitlements.
* Implemented CI/CD pipelines using Hudson/Jenkins; created custom pipelines with Groovy scripts.
* Configured and deployed applications on Tomcat servers.
* Created custom IAM roles and policies for AWS security and delegated access.
* Automated infrastructure and app deployments with Ansible Tower, Terraform, Puppet, and Bash/Python scripting.
* Migrated applications from VMware to AWS using VMDK import tools.
* Automated deployments and monitoring with Docker containers, Nagios, and cluster tools like Marathon & Zookeeper.
* Installed and managed Hadoop clusters; handled troubleshooting and monitoring.
* Supported source code management in Git and SVN; provided training and user support.
* Automated MySQL deployments in Docker with Python; monitored containers for reliability.
* Developed Perl scripts to deploy Java apps on Tomcat and edited Maven files for build automation.
* Designed and managed networks and environments involving Cisco, TCP/IP, Linux, Unix, Microsoft, QoS, and VoIP solutions.

**Environment**: Ubuntu, Chef, AWS, Maven, SonarQube, Nagios, Python, Shell, VMware, Java, Ant, Jenkins, Hudson, GIT, SVN, Apache Webserver, JBoss, Apache JMETER, GIT, SVN, Windows, Ruby, Chef, JIRA.

**Portfolio**: <https://akhilgou.github.io/AkhilVadlakonda>