**Sr. Azure DevOps Engineer**

**Ajay**

**Professional Summary**

* Around 11 years of experience as a Azure DevOps/Build/Release Engineer, which includes Software Configuration Management (SCM), Build/Release Management, Continuous Integration and Continuous Delivery using different tools.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, DynamoDB, services in AWS cloud.
* Experienced with various services as Azure DevOps , Terraform and Packer for building and deploying applications by adopting DevOps practices such as  Continuous Integration (CI) and Continuous Deployment (CD )in runtime with various tools like Git, AzureRepo, Maven, VSTS, Jenkins, Terraform, Docker, Kubernetes and managing cloud services with Azure.
* Expertise in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation. It includes Amazon Webservices (AWS), Ant, Apache Maven, Jenkins, SVN, GitHub, Tomcat, JBoss, and Linux.
* Excellent knowledge of Amazon EC2, Amazon S3, ELB and other services of the AWS and hand-on of Cloud-as a Service varieties PaaS, IaaS, and SaaS.
* Experience in migrating on-premises applications to Azure and configured VNETs and subnets as per the project requirement also performed PowerShell scripting to do Patching , Imaging , and Deployments in Azure .
* Implemented a CI/CD pipeline using Azure DevOps(VSTS,TFS) in both cloud and on-premises with GIT, MS Build, Docker, Maven along with Jenkins plugins.
* Expertise in automation of infrastructure using Ansible playbooks and Ansible tower.
* Experience in writing Infrastructure as a code(IaC) in Terraform to deploy the Azure resources and services
* Experience in dealing with Windows Azure IAAS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, Application Gateways, Auto-Scaling, and Traffic Manager.
* Implemented a complete automated build-release solution using a combination of technologies like Maven, TFS, Jenkins
* Experience in setting up CICD pipeline with Azure devops service to build and deploy the infrastructure using Terraform in Azure
* Setup and build AWS infrastructure various resources like VPC, EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Expertise in Amazon AWS Cloud Administration which includes services like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Watch, Cloud Formation, Security Groups, etc.
* Administration of Azure DevOps Services virtual machines, SQL databases, Azure Active Directory, and storage
* Security and Identity management (LDAP, Active Directory).
* Extensive experience in using Build Automation tools and Continuous Integration concepts by using tools like MSBUILD, Visual Studio, TFS - XAML and Vnext build.
* Experience in integrating Unit Tests and Code Quality Analysis Tools like JUnit, SonarQube and find bugs.
* Experienced in deploying the code through web/application servers like Apache http Server Web Sphere/Web Logic/ Apache Tomcat/JBOSS.
* Ability to manage all aspects of the software configuration management process including code compilation, packaging/deployment/ release methodology, and application configurations.
* Strong knowledge on revision control concepts like Branching, Merging and Tagging.
* Expertise in building MSI’s and Exe’s using Wix installer.

**Technical skills**

* **Operating Systems**: LINUX (RHEL, CentOS, Ubuntu), UNIX, Windows
* **Versioning Tools**: Git, Azure Repo, Gitlab, Github
* **Containerization**: Docker, Kubernetes, Docker Swarm
* **Bug Tracking Tools**: JIRA, Bugzilla, HP Quality Center
* **Build Tools**: Maven, MSbuild
* **CI/CD Tools**: Jenkins, Azure Devops, VSTS
* **Automation Tools**: Terraform, Ansible, Ansible Tower
* **Languages/Scripting**: Python, Shell, PowerShell scripting
* **Web Technologies**: HTML, CSS, Java Script, XML, YAML
* **Monitoring Tools** : Splunk, Elastic Search
* **Application Servers** : Tomcat, IBM WebSphere, JBOSS, WebLogic
* **Database**: SQL SERVER, MYSQL
* **Cloud Environments**: AWS, Azure

**Education**

* Masters in Computer Science , University of Central Missouri, Jan 2015 to May 2016
* Bachelors in Electronics and Communication, JNTU Hyderabad, India, Aug 2007 to May 2011

**Professional Experience**

**Sr. Azure DevOps Engineer, Siemens Healthineers, Tarrytown NY (Feb 2018 – Till date)**

* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Lead the Design, Development, and implementation of Atellica Hydra solution throughout the SCM lifecycle of the project using Wix toolset and PowerShell Scripting.
* Expertise with Windows Image deployments, troubleshooting issues and resolving technical challenges in deployment, building Automated Image Deployment solutions using Microsoft SCCM and other integrated tools such as MDT.
* Implementations of PowerShell scripts used to patch, image, and deploy to Azure
* Developed an ARM template that allowed resources to be deployed to Azure using PowerShell and CI using VSTS
* Designed and implemented Docker on windows for Standalone applications of Siemens.
* Built S3 buckets and managed policies for **S3** buckets and used S3 bucket and Glacier for storage and backup on AWS.
* Created Task definitions and services CloudFormation stacks for ECS Fargate container Deployments for multiple RESTAPIs and invoked the container from AWS lambda functions.
* Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Designed Jenkins pipelines involving several Downstream/Upstream job configurations based on dependencies from other applications based on release methodologies.
* Set up Jenkins server and built jobs to provide continuous automated builds based on polling the Git source control system during the day and periodic scheduled builds overnight to support development needs using Jenkins, Git, and Maven.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Used Jenkins pipelines to drive all microservices Docker builds out to the jfrog Artifactory repository and then deployed ECR repo and ECS cluster for container deployments
* Created and maintained cross-environment CI using VSTS, enabling code to be deployed securely to Azure Kubernetes (AKS) using YAML scripting
* Configured application servers (Tomcat) using Ansible to deploy the code. Created and configured multiple instances on Tomcat Server for different teams.
* Developed and scheduled bash shell scripts for various activities (deployed environment verification, running database scripts, file manipulations, Subversion, etc.
* Setup full CI/CD pipelines so that each commit a developer makes will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
* Made use of ELK stack for logging all the activity and create indexes which can be queried by kibana.
* Worked on implementing backup methodologies by Power Shell Scripts for Azure Services like Azure SQL Database, Key Vault, Storage blobs, App Services etc.
* Acted as build and release engineer, deployed the services by VSTS (Azure DevOps) pipeline. Created and Maintained pipelines to manage the IAC for all the applications
* Created reusable Terraform modules in both Azure and AWS cloud environments.
* Strong understanding of LDAP, Active directory and multi domain enterprise environments.
* Worked on AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups.
* Used Ansible Playbooks to automate in AWS services like Launching EC2, Provisioning IAM, Configuring VPC, EBS, Monitoring using CloudWatch and CloudTrail.
* Using Ansible created multiple playbooks for spinning out machines, configure software and automate the process of deploying and patching SQL Always On clusters.
* Automate dashboards with the stack through Terraform Scripts.
* Write terraform scripts from scratch for building Dev, Staging, Prod and DR environments.
* Created Docker images using a Docker file. Worked on Docker container snapshots, removing images and managing docker volumes and experienced with Docker container service.
* Designing and implementing container orchestration systems with Docker Swarm and Kubernetes.
* Experience with Kubernetes to manage the containerized applications, creating configMaps, deployments, secrets, services and deploying application containers as pods.
* Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Integrated Kubernetes with network, storage, and security to provide comprehensive infrastructure and orchestrated container across multiple hosts.
* Involved in implementation of Elastic search to visualize the data in different customer locations on Kibana Dashboard.
* Worked extensively on creating XAML and Vnext build definitions for C# and C++ code in TFS
* Extensively used WIX Installer to generate the MSI’s and Exe files to deploy the applications.
* Used Wix to install third party applications, registry keys, custom actions to execute scripts, deploy firewall rules and database dacpac files.
* Experience in working on creation of Windows IoT Core and custom Windows 10 operating system images.
* Acted as subject matter expert from DevOps team to assist development and system teams on day to day compilation and deployment activities

**Environment:** Windows 7/10/11, Windows Server, Linux, TFS 2018, Azure DevOps, AWS, Docker Containers, Git, Shell scripting, PowerShell, AWS, EC2, S3, SQL Server, MDT, XAML, Jenkins, packer, Tomcat9, Terraform, LDAP, Elastic Search, Kibana, AKS, Vnext builds, Wix Installer, Ansible, Ansible Tower.

**Azure DevOps Engineer , Dell EMC - Dallas, Texas (Jan 2017 – Feb 2018)**

* Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Implementing new projects builds framework using Jenkins & maven as build framework tools
* Implementing a Continuous Integration and Continuous Deployment framework using Jenkins, Maven & Artifactory in Linux environment
* Developed Ansible playbooks to install and configure Apache, Tomcat, Jenkins, WebLogic, and deployment automation
* Analyze and resolve compilation and deployment errors related to code development, branching, merging, building of source code
* Implement, maintain, and support reliable, timely and reproducible builds for project teams
* Used Maven dependency management system to deploy snapshot and release artifacts to Nexus to share artifacts across projects.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds.
* Written groovy scripts to use multi branch pipeline projects in Jenkins to configure it as per client’s requirements.
* Own full lifecycle of build system - from analysis, development, implementation and support of builds, unit testing and deployments
* Created and maintained the python deployment scripts for Web Sphere web application server.
* Used Docker and OpenShift to manage micro services for development and testing.
* Created a Continuous Delivery process to include support building of Docker Images and publish into a private repository- Nexus v3.
* Managed local deployments in Kubernetes, creating local cluster and deploying application containers.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes
* Created and managed cloud VMs with AWS EC2 command line clients and AWS management console.
* Implemented AWS solutions using E2C, S3, RDS, EBS, and Elastic Load Balancer, Auto scaling groups and optimized volumes, EC2 instances.
* Integrated AWS Dynamo DB using AWS Lambda to store the values the items and backup the Dynamo DB streams.
* Experienced in AWS Elastic Beanstalk for app deployments and worked on AWS Lambda with Amazon kinesis.
* Used IAM to create new accounts, roles and groups
* Configured S3 versioning and lifecycle policies to backup files and archive files in Glacier
* Configured Elastic Load Balancers with EC2 Auto scaling groups
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Installed configured and administered App Dynamics Controller, Data Base Controller, Web and Mobile End User
* REST API Design using Swagger and API Management AWS API Gateway
* Coordinate with Release Management regarding appropriate system releases among other development platforms

**Environment:** RedHat, Maven, Jenkins, Ansible, Dockers, Kubernetes, Openshift Linux, Solaris, Azure Devops, VSTS, AWS, EC2, S3, API Gateways, Swagger, CloudForms, Weblogic, Ant, Git, Shell scripting, WLST, Python scripting, App Dynamics, VMware Vcenter, Oracle, BMC Remedy

**DevOps Engineer, FactSet Research Systems, Norwalk, CT (Jan 2016 – Jan 2017)**

* Configured Chef Workstation with AWS EC2 & Microsoft Azure plug-in on dev and test environments.
* Design and Implemented Cloud Orchestration solution using AWS EC2 & Microsoft Azure, Docker, and Kubernetes.
* Wrote Chef Cookbooks to bootstrap Chef Client and creation of VM's on cloud environments with the desired applications on the node.
* Configuration Automation using Chef and Docker Containers.
* Managed and monitored the instances (Chef Client's) on AWS EC2 & Microsoft Azure.
* Configuring the Docker containers and creating Docker files for various applications.
* Integrated the Docker containerized applications to get them functional and working.
* Created Docker images from scratch and customized and modified base images from existing environment configurations and maintaining the image repo for development teams.
* Worked with Docker container snapshots, attaching to a running container, managing containers, directory structures and removing Docker images.
* Extensive knowledge on various Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Configured and setup Kubernetes Cluster environment with a master and 3 minions.
* Docker container deploying micro services, and scaling the deployment using Kubernetes.
* Container Architecture implementation with Kubernetes Cluster Management.
* Tested and managed the deployments on mobile platforms iOS and Android.
* Integrated the Web UI application in the Apache web server and containerizing the application and made the application available on the cloud instances for usage.

**Environment:** Centos , Debian, Chef V12, Docker, Kubernetes, Microsoft Azure, AWS EC2, Shell Scripts, Apache, Elastic Path, GIT, Power shell, JIRA

**Build Engineer, FactSet Research Systems, India (Sept 2011 – Dec 2014)**

* Developed and supported the Software Release Management and procedures.
* Implementing a Continuous Delivery framework using Jenkins, Ant and Maven in Linux environment.
* Performed all necessary day-to-day Subversion/GIT support for different projects.
* Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control strategies.
* Work on production support of Linux/Unix servers.
* Installed RedHat Linux using kick start and applying security polices for hardening the server based on company's policies.
* Implemented & maintained the branching and build/release strategies utilizing Subversion/GIT
* Involved in periodic archiving and storage of the source code for disaster recovery.
* Built a comprehensive PERL script which would call the required Make files and notify the build distribution team in case of Build errors or Completion of the builds.
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Setup Jenkins to run regular regression tests using Maven configuration.
* Used ANT and MAVEN as a build tools on java projects for the development of build artifacts on the source code.
* Created puppet manifests and modules to automate system operations.
* Worked on installation and configurations of Puppet agent and Puppet Master.
* Automated jobs using Puppet, Cron and Shell, Perl Scripting.
* Automated build and release management process including monitoring changes between releases.
* Deployed the Java applications into web application servers like Web logic.
* Executed user administration and maintenance tasks including creating users and groups, reports, and queries.
* Implemented Bash, Perl, Python scripting for automating deployments.
* Instituted centrally managed Linux configurations for application deployments, disaster recovery.
* Worked as a system administrator for the build and deployments process on the enterprise server.
* Documented project's software release management procedures with input decisions.
* Developed, maintained, and distributed release notes for each scheduled release.
* Provided periodic feedback of status and scheduling issues to the management.
* Track of all the releases and request of the developers through Infrastructure management tool.
* Created views and appropriate meta-data, performed merges, and executed builds on a pool of dedicated build machines.

**Environment:** Subversion, GIT, Bash, MAVEN, JIRA, RedHat LINUX, XML, Python, Windows XP, IIS, Windows Server 2003, Web logic, BugZilla, SCOM, MY SQL, Perl Scripts, Shell scripts.