**Rishika J**

**Sr. Devops Engineer**

**Email:** [**rishikajonnagaddala7@gmail.com**](mailto:rishikajonnagaddala7@gmail.com)

**Cell: 405-593-8825**

**PROFESSIONAL SUMMARY:**

* **Around 8 Years** of experience as **DevOps Engineer** with understanding of high availability architecture and concepts and profound knowledge on cloud infrastructure maintenance, trouble shooting, monitoring, containerization, and automation.
* In - depth knowledge of cloud computing strategies & building, deploying in, and maintaining the cloud environment.
* Experienced in and demonstrated understanding of **SCM** concepts such as Branching, Merging, and Tagging.
* Excellent knowledge in **Azure compute services**, **Azure Web apps**, **Azure Data Factory** & **Storage**, **Azure Media** & **Content delivery**, **Azure Hybrid** **Integration**, and **Azure Identity** & **Access Management**.
* Embedded Experience in Authoring Azure Resource Manger templates. Experience in setting up and customizing **Active Directory**, **Azure Active Directory**, **Domain Service**, **SSO** and **MFA** and **security**.
* Involved in designing and developing **Amazon EC2, Amazon S3**, **Amazon RDS, Amazon** **Elastic Load Balancing**, **Amazon SWF**, **Amazon SQS**, and other services of the **AWS** infrastructure.
* Implemented **AWS** **Lambda** functions to run scripts in response to event in **Amazon** **Dynamo DB** table or **S3** bucket or to **HTTP** requests using **Amazon API Gateway** .
* Profound Knowledge on **IAAS** and setting up **AWS cloud** infrastructure using AWS CloudFormation and Jenkins for Automation. Designed and developed continuous deployment pipeline using Jenkins and integrating **Terraform** and **Ansible** across geographically separated hosting zones in **AWS**.
* Designed, build, and coordinate an automated build & release **CI/CD** process using GitHub, Jenkins, and Puppet on hybrid IT infrastructure.
* Provisioned the highly available **EC2** Instances using Terraform and Cloud Formation.
* Extensive experience with **Terraform** key highlights, for example, Infrastructure as code, Execution designs, Resource Graphs, Change Automation.
* Expertise in Creating **Kubernetes** **HA** clusters with Multi Zones in single region. Hands on with installation and configuration of **Kubernetes**, clustering them and managed local deployments in Kubernetes.
* Deployed and configured Prometheus to monitor **Kubernetes** nodes with node-exporter, monitor **Kubernetes API** and resources with Kube-state-metrics.
* Experience in using **Docker** and setting up **ELK** with **Docker** and **Docker**-Compose. Actively involved in deployments on Docker using Kubernetes. Familiarity with Docker Swarm. Used **Docker** **Mesos** to abstract data center resources and to elastically scale the applications and underlying infrastructure.
* Integrated Jenkins with **Docker** for **Docker** build and deployments using Cloudbees **Docker pipeline** plugin.
* Experience in setting up **Docker Registry** for local pull and push of Docker images and from **Docker hub** .
* Experienced in production-grade **Kubernetes** that allow enterprises to reliably deploy and run containerized workloads across private and public clouds . Managed Kubernetes charts using Helm .
* Worked with **Ansible playbooks** for virtual instance provisioning, configuration management, patching and software deployment on **AWS** environments through automated tools, Ansible/Jenkins custom pipeline .
* Administered and Engineered Jenkins, Bamboo and Hudson for managing weekly Build, Test and Deploy chain, **SVN/GIT** with Development, Testing and Production Branching Model for weekly releases.
* Experience in developing modules (blue prints) for installation, configuration and continuous integration (**CI**) using combination of puppet master, **GIT**, **Vagrant** and **Jenkins**.
* Composed and implemented Subversion and **GIT** metadata including elements, labels, attributes, triggers, and hyperlinks. **GIT**, **Maven**, **Jenkins** administration. Setting up continuous integration and formal builds using Jenkins with Artifactory repository.
* Provisioned the highly available **EC2** Instances using Terraform and CloudFormation. Experience in Setting up the build and deployment automation for **Terraform/CloudFormation** scripts using **Jenkins**.
* Experienced in cloud automation using **AWS** **cloud** **Formation** Templates, **Chef** and **Puppet**.
* Experienced in configuration management using Visual Studio Team Services (**VSTS**), Team Foundation Server (**TFS**), **VSS** and Subversion (**SVN**)
* Configured and managed an **ELK** stack, setup the Elastic search **ELK** Stack to collect, search and analyze log files across the servers. Evaluated system logs using **ELK** software stack .
* Involved in Ticketing & Bug tracking tools like **JIRA** and used **SonarQube** for automated code review.
* Great communicative, interpersonal, and leadership abilities with capacity to work effectively in both autonomous and groupwork situations. Capacity to memorize and adjust rapidly to rising modern technologies/frameworks/environments.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Cloud Technologies** | Apache Azure, AWS, GCP |
| **Configuration & Management tools** | Ansible, Chef, Terraform, CloudFormation, Azure Resource Manager |
| **CI/CD & Build Tools** | Jenkins, Hudson, Bamboo, Puppet, ANT, Maven |
| **Version Control Tools** | GIT, Subversion |
| **Monitoring Tools** | Nagios, SPLUNK, ELK, New Relic, Graphene, Zabbix. |
| **Languages** | C, C++, JAVA, J2EE. |
| **Databases** | MySQL, NoSQL, MongoDB, DynamoDB, Elastic ache. |
| **Containerization Tools** | Docker, Docker Compose, Docker swarm, Docker Mesos, Kubernetes. |
| **Scripting language** | Python, Ruby, Perl, PHP, Bash, Power shell. |
| **Virtualization Tools** | VMware, Windows Hyper-V, Virtual box, Vagrant, Citrix Xen. |
| **Atlassian Tools** | JIRA, Confluence, Bitbucket, Bamboo. |
| **Operating Systems** | Linux (Red Hat, CENTOS & SUSE), Solaris, Ubuntu, Windows, DEBIAN. |
| **Application servers** | Web Logic Application Server, Apache Tomcat, Red Hat, JBOSS, WebSphere. |
| **Development methodologies** | Agile/Scrum |

**PROFESSIONAL EXPERIENCE:**

**Client : CenterPoint Energy - Houston,TX May 2021- Till Date**

**Role : Sr. DevOps Engineer**

**Responsibilities:**

* Created Azure Automation Assets, Graphical runbooks, **PowerShell** runbooks that will automate specific tasks, deployed **Azure AD Connect**, configuring **ADFS** authentication flow, **ADFS** installation using **Azure AD Connect**.
* Worked on **Azure** (IaaS) migrating like creating **Azure VMs**, **storage** accounts, **VHDs**, storage pools, migrating on premise servers to **Azure** and creating availability sets in **Azure** and performed Hardening of the VM’s and also disk encryption using the KEK key in **MS Azure** .
* Worked on **Azure Site Recovery** and **Azure Backup**- Installed and Configured the Azure Backup agent and virtual machine backup, Enabled **Azure** **Virtual machine** backup from the vault and configured the ASR.
* Set up a **GCP** Firewall rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP**cloud CDN (content delivery network) to deliver content from **GCP**cache locations drastically improving user experience and latency.
* Configured diagnostics, monitoring and analytics on Azure using API Management, Logic Apps and set up documentation using Swagger API, while focusing on scale and resilience for **Azure** **Web Apps** .
* Designed and configured Azure Virtual Networks (**VNets**), subnets, **Azure network** settings, **DHCP** address blocks, DNS settings, and security policies and routing.
* Utilized **ARM** template to build high-availability SQL for application backend infrastructure and virtual machine front-end scale sets, including reporting, scripting, and scheduling.
* Worked with **Terraform** Templates to automate the **Azure IaaS virtual** machines using terraform modules and deployed virtual machine scale sets in various environments.
* Developing **PowerShell** **scripts** and **ARM** templates to automate the provisioning and deployment process.
* Implemented **puppet** modules to automate the installation and configuration for a broad range of services.
* Worked on Serverless services, created and configured **HTTP** Triggers in the **Azure** **Functions** with application insights for monitoring and performing load testing on the applications using the **Visual Studio** Team Services (**VSTS**) also called as Azure DevOps Services.
* Transformed current Terraform modules that had version conflicts to empower controls and missing potency.
* Developed automation system using **PowerShell** **scripts** and **JSON** templates to remediate the **Azure services**
* Written Templates to maintain **IAC** using Terraform to build staging and production environments.
* Worked on google cloud platform **(GCP)** services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Configured Kubernetes Services type load balancer and Cluster IP to expose UI based application and migrated cluster **CNI** from **Flannel** to **Kube-router** to support Kubernetes network policies.
* Created the **Kubernetes** **Clusters** under Pod networks to group the **Docker containers**.
* Used **Kubernetes** and Docker to maintain the runtime environment for the **CI/CD** system to build, test and deploy the applications across different environments. Created reproducible builds of the **Kubernetes** applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Implementation of Release Management automation processes using Team Foundation Server (**TFS**), Visual Studio Team Services (**VSTS**).
* Managed Azure Infrastructure **Azure** Web Roles, Worker Roles, **VM Role**, **Azure SQL**, **Azure Storage**, **Azure AD Licenses**, **Virtual Machine** Backup and Recover from a Recovery Services Vault using **Azure** **PowerShell** and **Azure Portal**.
* Developed microservice onboarding tools leveraging Python and Jenkins for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Used **Docker** and setting up **ELK** with Docker and **Docker-Compose**.
* Used **Puppet** and **Chef** for Configuration Management tool.
* Implemented ELK (**Elastic Search, Log stash**, and **Kibana**) Stack for Application Logging.
* Used Jenkins and pipelines to drive all **micro services** builds out to the **Docker**-registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Worked on deployment automation of all the microservices to pull image from the private Docker registry and deploy to Docker swarm cluster using Ansible.
* Took advantage of **Jenkins** for enterprise scale infrastructure configuration, creating required scripts in **Python** and checking out the code from **GIT** and use Maven pom.xml to build Jar, war, tar, and ear artifacts.
* Developed the **puppet** manifests for different application and web servers like **Apache**, **Tomcat**, Web Sphere applications
* Worked with **JIRA** templates for allotting permissions to users and groups for the projects & created mail handlers and notification Schemes for **JIRA**. Evaluation and manage Confluence add-ons and macros. Documented troubleshooting, installation, and server’s information in confluence and **bitbucket**.
* Performed user administration; startup and shutdown scripts; cronjobs, file system maintenance and backup scripting and automation using shell scripting (**BASH, KSH**) and Perl for Red Hat Linux systems. Extensive experience in Unix System Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Trouble shooting on RHEL.

**Environment:** Microsoft Azure (IaaS& PaaS ), Jenkins, JIRA, Subversion, AWS Cloud, Puppet, JBoss, MySQL, PostgreSQL, OpenStack, Jython,Apache,GCP, Nginx, FTP, Splunk, Docker, Windows Server 2003, HTML, HTML5, OWASP, CSS3, Bootstrap, Code igniter, Adobe Fireworks and Sublime Text, Ansible.

**Client : Premier INC, Charlotte NC Nov 2019 – Apr 2021**

**Role : Sr. DevOps Engineer**

**Responsibilities:**

* Created Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed **Azure AD** Connect, configuring **Active Directory** Federation Service (**AD** **FS**) authentication flow, ADFS installation using **Azure AD** **Connect**, and involved in administrative tasks that include Build, Design, Deploy of **Azure** environment.
* Configure Continuous Integration from source control, setting up build definition within Visual Studio Team Services (**VSTS**) and configure continuous delivery to automate the deployment of ASP.NET MVC applications to Azure web apps and managed Azure Active **Directory, Office 365** and applied upgrades on a regular basis.
* Worked with an agile development team to deliver an end to end continuous integration/continuous delivery product in an open source environment using **Puppet** and **Jenkins** to get the job done.
* Managed Azure Infrastructure Azure Web Roles, Worker Roles, **VM Role, Azure** **SQL, Azure Storage**, **Azure AD Licenses**, **Virtual Machine** Backup and Recover from a Recovery Services Vault using Azure PowerShell and Azure Portal.
* Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments. Integrated **Azure Log Analytics** with Azure VMs for monitoring the log files, store them and track metrics and used **Terraform** as a tool, Managed different infrastructure resources **Cloud, VMware**, and **Docker** **containers**. extensively involved in infrastructure as code, execution plans, resource graph & change automation using **Terraform**.
* Automated setting up server infrastructure for the DevOps services, using **Puppet/Ansible**, **shell** and **python scripts**.
* Automate Datadog Dashboards with the stack through **Terraform** Scripts.
* Extensively worked on configuration management tool Ansible.
* Using **Ansible** created multiple playbooks for machine creations and **SQL server**, cluster server and my **SQL installations**.
* Used Ansible to Setup/teardown of **ELK stack** (Elastic search, Log stash, Kibana) and troubleshoot the build issues with ELK and work towards the solution.
* Written Ansible handlers with multiple tasks to trigger multiple handlers and to decouple handlers from their names, making it easier to share handlers among Playbooks and Roles.
* Built a new CI pipeline. Testing and deployment automation with **Docker, Jenkins** and **Puppet**.
* Building/Maintaining Docker container clusters managed by **Kubernetes Linux, Bash, GIT**, **Docker**, on **GCP** (Google Cloud Platform). Utilized Kubernetes and **Docker** for the runtime environment of the **CI/CD** system to build, test deploy.
* Involved in development of test environment on Docker containers and configuring the Docker containers using **Kubernetes**.
* Managed **Kubernetes** charts using Helm. Created reproducible builds of the **Kubernetes** applications, managed Kubernetes manifest files and Managed releases of Helm packages
* Worked on OpenShift for container orchestration with Kubernetes container storage, automation to enhance container platform multi-tenancy also worked on with Kubernetes architecture and design troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
* Deploying windows **Kubernetes** (K8s) cluster with **Azure Container Service** (ACS) from **Azure CLI** and Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test and **Octopus Deploy**.
* Responsible for managing and supporting Continuous Integration (**CI**) using **Jenkins**
* Responsible for Administering and maintaining Jenkins and Jenkins slaves on windows and **Linux** (Debian/Ubuntu). Created many **Jenkins** slaves and setup jobs on master to run on slaves.
* 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**
* Branching, Tagging, Release Activities on Version Control Tools: **SVN, GIT**.
* Developed build and deployment scripts using Maven as build tools in Jenkins to move from one environment to other environments.
* Create A **SPLUNK** search processing Language (**SPL**) queries, reports and dashboards.
* Monitored and tracked **SPLUNK** performance problems, administrations and open tickets with SPLUNK.
* Automate the processes using **PowerShell** and **windows** command shell.
* Installed, configured, and maintained **Oracle 10g** and **11gR2**.
* Used **SonarCube** in order to review the code efficiently.
* Implemented multi-tier application provisioning in **AWS** , **Openstack** cloud and integrating it with **Chef/ Puppet.**
* Worked with various **PCF** components like **OAuth2** **server**, login server to provide identity management & Cloud Controller to configure deployment of applications. Worked with Blobstore for storing and managing Application code packages, Build packs.
* Worked on using **Visual studio** as task in **Azure DevOps** to get artifacts for .net application and writing in-line power scripts to deploy the artifacts and restart of the IIS.
* Implemented **Micro-services** using **PCF** platform build upon **Spring Boot** **Services**. Managed the lifecycle of containers and processes running using Diego cell rep. Worked on PCF Dev to push and scale apps for debugging applications locally on a **PCF** deployment.

**Environment:** Azure, PCF,, Terraform, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Site Recovery, Kubernetes, Python, Puppet, Visual Studio, Ruby, XML, Shell Scripting, PowerShell, Nexus,, Jenkins, Git, GitHub, Ansible, Docker, Splunk, Oracle 11g, Windows Server, TFS, VSTS, LDAP.

**Client : GE Digital, Atlanta GA Apr 2018 – Oct 2019**

**Role : DevOps Engineer**

**Responsibilities:**

* Migrate **SVN** repositories to **Git** and administrate Gitlab to manage **Git repositories**.
* Responsible for design and maintenance of the **GIT**repositories and the access control strategies.
* Enhanced the **automation** to assist, repeat and consist **configuration management** using **Ansible** based **YAML**scripts.
* Implemented Infrastructure automation through **Ansible** for auto provisioning, code deployments, Software installation and **configuration** updates.
* Used **GIT** to update all the **Ansible** playbooks to the GIT repository.
* Build and improve the reliability and performance of cloud applications and cloud infrastructure deployed on **Amazon Web Services** and configured **VPC** with public and private subnets.
* Configured **Nagios** to monitor **EC2** Linux instances with chef automation.
* Apply Auto Scaling and **Elastic Load Balancing** to create high availability and fault tolerance to **EC2**instances.
* Install and configure **Apache**, **Nginx**, **Drupal**, and **WordPress** on **Ubuntu** and Amazon Linux instances.
* Primary duties include **Build** and **Deployment** of the java and PHP applications onto different environments like Dev, QA, **UAT** and Prod.
* Extensive experience in using Build Automation tools like, **ANT**, **Maven**, **Artifactory** and **Hudson** / **Jenkins** .
* Involved in Installing **Jenkins**on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Worked on using **Chef** Attributes, **Chef** Templates, **Chef** Recipes, **and Chef** Files for managing the configurations across various nodes using RUBY.
* Very good understanding of using Roles, Environments, Data Bags and their encryption with Vault etc.
* Testing **Cookbooks** with Test Kitchen and **Docker** containers even before uploading to chef server and Good understand of Knife, **Chef Bootstrap** process etc.
* Practical understanding and experience in scaling Chef with 100's of agents and few **Chef Servers**.
* Worked with building and maintaining **Docker** infrastructure for SOA applications in agile environment.
* Generated **Ant**, **Perl**& **UNIX** scripts for build activities in QA, Staging and Production environments
* Wrote **python** routines to log into the websites and fetch data for selected options.
* Automated the deployment and server bounce process is by creating the scripts using **WebLogic Scripting Tool** (WLST).
* Deployed using Admin console into **WebLogic** Application Servers.
* Working experience in deployment, monitoring and provisioning **Microsoft Azure**.
* Build artifacts (war and ear) are deployed into a WebLogic app server by integrating the **WLST** scripts to **Shell Scripts**.
* Deployed the applications to **Tomcat Application Server** and static content to apache web servers.
* Directed the **Release Management** Calls to synchronize with the Developers, Testers and DBA teams for successful Release.
* Presented reports to the Project manager about the progress and issues tracking key project **Milestones**, plans and resources.
* Pushed releases to **QA**, **Beta**, and production environments.
* Worked closely with the team to review code for **compatibility issues**, resolve issues as they arise, and implement deployment processes and improvements on a continuous basis.
* Incorporated the Code Quality Tools to Find Bugs and Covertures into **ANT** Projects.
* Used **Jenkins** to perform automated Builds and Deployments.
* Expert in User Management and Plot Plugin Management for **Jenkins** .
* Established processes and tools to maintain code base integrity, including check-in validation rules and branch/merge processes.
* Documented project's software release management procedures with input decisions.

**Environment:** Chef, ANT, Jenkins, Artifactory, Oracle WebLogic 9.x/10.x, Ruby scripting, Ubuntu, WordPress, Drupal Python scripting, AWS, Docker, SVN, Nginix, GIT.

**Client: Truist - Charlotte , NC Sep 2016 – Sep 2017**

**Role: Build and Release Engineer**

**Responsibilities:**

* Involved in identifying build errors in the system and identify the build issue and escalate it to the concerned team after careful analysis. Work and coordinate with them to get the fix in the release.
* Worked on Continuous Integration System i.e. **Jenkins**. Used Jenkins for official nightly build, test and managing change list. Installed Multiple Plugins for smooth build and release build pipelines.
* Proficient with **Jenkins**, Team City and **Bamboo** for continuous integration and for End-to-End automation for application build and deployments.
* Performed all necessary day-to-day **Subversion/GIT** support for different projects, involved in migrating from **SVN** to GIT, Analyse and resolve conflicts related to merging of source code for **GIT**.
* Connected continuous integration system with GIT version control repository and continually build as the check-inn’s come from the developer and deploying into web application servers
* Used **ANT**, **MAVEN** as a build tool to create JAR, WAR, EAR packages with the source code from the shared mount to deploy into Tomcat application server.
* Worked on **Java/J2EE** applications, configured **Apache Tomcat** application server to deploy the Java applications.
* Involved in working with Shell, Bash scripts for the deployments and running **CRON jobs**.
* Responsible for writing the Release Notes, documenting all the useful info about the release, software versions, changes implemented in current release, Defects fixed, Labels applied.

**Environment:** GIT, Jenkins, Java/J2EE, ANT, MAVEN, JIRA, LINUX, XML, Windows XP, Windows Server 2003, **Web logic, MY SQL, Perl Scripts, Shell scripts.**

**Client: Sify Technologies, India May 2015 – Jul 2016**

**Role: Linux Administrator**

**Responsibilities:**

* Installed and Configured High Availability, **Disaster Recovery** systems using VERITAS Cluster Server 4.1 on a two-node cluster for NFS and **MQ Series**.
* Configuring, administering and troubleshooting of **NFS**, **NIS** (master, slave and client) and **DNS** (Bind 8.2.x and 8.3.x) in multi-platform networks that included IBMA IX & Linux.
* Updating patches to keep the **Linux** and **Solaris** servers updated against bugs present in the operating system using patch administration commands like yum, rpm, and patch add, showrev & up to date etc.
* User, Group management and security policy management for the all servers including Windows and **UNIX**using RBAC, sudo etc.
* Installing, configuring and troubleshooting **Sun Java System** Web Server 6.x, 7 and Apache 2.2.x web server on **Redhat Linux**.
* Responsible for **Installation**, **configuration** and **administration** of middleware like Web Logic 9.0, JBoss 3.2, CA Web Access Manager (**WAM**) and MQ Series v 7.0 etc.
* Performance Analysis of resources like CPU, Memory, Disk and Swap from command line using commands like prstat, vmstat, sar, iostat, swap etc. and tuning of the kernel parameters for the better performance of the operating system and **TCP**.
* Hardening the servers as per the compliance norms by analysing the availability of the services that are needed on the servers based on the functionality and disabling the services which are not needed. Installation and configuration of **TCP**wrappers and constant security patch updates as a part of the exercise to harden the servers.

**Environment:** Redhat, Linux, Solaris, Veritas Volume Manager 4.1, Veritas Cluster Server 4.1, Veritas NetBackup 5, BMC Patrol for Unix, Apache 2.2.x, Sun Java System Web Server 6.x, 7, WebLogic.

**EDUCATION**:

* Bachelors in ICFAI UNIVERSITY ( computer science ) – 2014