**SIDDHARTHA**

**rishitha.23g@gmail.com**

 **+1 2142998373**

**Professional summary:**

* I have 8+ years of experience in IT industry with a strong emphasis on **DevOps culture**, **Linux administration**, **Release Management, Software Development, Configuration and Automation.**
* In depth understanding of the principles and best practices of software configuration management (SCM) in **Agile, Scrum** and **Waterfall** methodologies.
* Expert working knowledge of **Agile/DevOps**. Coordinated with IT groups on the release timings to ensure systems are ready for code to be deployed.
* Working knowledge with infrastructure as code on **Amazon Web Server (AWS) / Google Cloud Platform (GCP**) and implementations for staging and production environments.
* Expertise in Jenkins pipelines to drive all micro services builds out to the **Docker registry** and then deployed to **Kubernetes**.
* Hands on experience **Kubernetes** to automate the **deployment, scaling,** and **operations** of application containers across clusters of hosts by using Pods, services, Volumes, Namespace, replica set and deployment.
* Experienced in setting up **Jenkins** as a service inside **docker swarm** cluster to reduce the failover downtime to minutes and to automate the docker containers deployment without using configuration management tool.
* Experienced in deploying and configuring **Elastic search, Log stash and Kibana (ELK)** for log analytics, full text search, application monitoring in integration with **AWS Lamda and Cloud Watch**.
* Hands on experience with **Ansible** Playbooks, **modules** and **roles** and helped the team in setting up Continuous Integration for major releases in Jenkins.
* Expertise in **Tomcat, JBOSS, Samba Web logic** and **Web Sphere** Application servers for deployments.
* Good knowledge in managing **Nexus** and **JFrog Artifactory** repositories for **maven artifacts** and dependencies.
* Build the most complex **automated deployments** using configuration management technology in **Ansible Tower.**
* Experienced in usage of configuration management tools like **Ansible, Saltstack, Chef, and Puppet** toprovision **Apache web servers, Tomcat servers, Nginx** and other applications.
* Expertise in **Services Oriented Architectures** and Service Mesh (eg: Istio, linked, traffic, nginx, consul, etc…).
* Experienced in using **Splunk, Nagios** and **Amazon Cloud Watch** to monitor major metrics like **Network packets, CPU utilization** and **Load Balancer.**
* Worked on creation and managing IT infrastructure and application stack using **AWS** **Cloud Formation** & **AWS Elastic Container Service**.
* Working knowledge of **Azure fabric**, **Iot** & **Docker containers** in Azure and involved in setting up of **Terraform** continuous build integration system.
* Used **Terraform** to map more complex dependencies and identify network issue.
* Written templates for AWS infrastructure as a code using **Terraform** to build staging and production environments.
* Experienced in Configuration and deployment of **Azure Automation Scripts** for multiple applications with the utilization of the **Azurestack (Including Compute, Web&Mobile, Blobs, ADF, Resource Groups, Azure Data Lake, HDInsight Clusters, Azure Data Factory, Azure SQL, Cloud Services, and ARM**) and services.
* Experienced in Database software's such as **Oracle RDBMS and MYSQL.**
* Expertise on **Azure Fabric**, Microservices & **Docker** containers in **Azure**. Good at manage hosting plans for **Azure Infrastructure**, implementing and deploying workloads on **Azure virtual machines** (VMs).
* Installed and configured **Splunk** for log monitoring and also forwarded system stats to **Splunk** indexer, created dashboards and alerts using this data.
* Good experience with deploying azure **ARM templates** for ASP .NET and .NET core applications to **azure app** services.
* Experienced on Application Management Performance tools like New Relic in integration of Application with monitoring for complete insight and proactive monitoring.
* Expertise in setting up **Jenkins** as a service in **Docker swarm** cluster for reducing the downtime failure and automate the deployment on **Docker containers** without using configuration management tool.
* Good knowledge on networking concepts **like routers, switches, DHCP, DNS, OSI layers, TCP/IP** protocols.
* **Good Interpersonal Skills, hard-working, productive, team-working attitude**, takes initiatives and very proactive in solving problems and providing best solutions.

**Technical Skills**

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| --- | --- |
| **Operating Systems** | Linux (Red Hat 4.x, 5.x, 6.x), UNIX, Ubuntu, Centos, Windows NT/2000/2003/XP/VISTA/7, AIX, Mac OS. |
| **Version Control Tools** | CVS, SVN, IBM Rational, Bit Bucket, GIT. |
| **Repository Management tools** | Nexus, JFrog. |
| **Monitoring Tools** | Nagios, Splunk, CloudWatch. |
| **Language** | C, C++, JAVA, XML, HTML, Shell, Perl, Powershell, Python, JSon, Ruby. |
| **Database** | MySQL, Oracle 9i/10g/11g, DB2, MongoDB, Casandra. |
| **Application Servers** | WebSphere, ApacheTomcat, Samba, Apache, JBoss WebLogic. |
| **CI Tools** | Hudson/Jenkin, Bamboo. |
| **CM Tools** | Ansible, Chef, Puppet, Saltstack. |
| **Cloud** | AWS EC2, VPC, EBS, AMI, IAM, SNS, RDS, EBS, CloudWatch, CloudFormation, Autoscaling, AWS Config, S3, Cloud Trail, VMWare, Azure. |
| **Tracking tools** | Jira, Rally, Quality Center. |

**Professional Experience:**

**Kemper, Dallas, TX July 2022 - Present**

**Sr. DevOps Engineer.**

**Description:**

Led continuous integration and delivery of RPA bots, troubleshooting large-scale deployment issues, and maintaining CI/CD pipelines in Azure DevOps. Coordinated with development and QA teams, resolving build and deploy failures in Jenkins and Azure DevOps. Implemented infrastructure automation using Terraform, orchestrated data with Azure Data Factory, and managed AWS instances for RPA setup. Ensured cloud security by restricting S3 bucket access and hosted web applications on AWS. Facilitated IT issue resolution, supported Agile/Scrum methodologies, and performed builds for various environments, contributing to quality releases and efficient team collaboration across multiple software releases.

**Responsibilities:**

* Performing continuous integration and delivery of **RPA bots** and on-demand troubleshooting in large-scale deployment issues.
* Working in **DEV/QA environment** and setting up new servers & CI/CD pipelines etc. Which later will be used for **production**.
* Coordinate with Development, QA Teams for a smooth transition of production issues.
* Responsible for **resolving issues** on build and deploy failures in tools like **Jenkins, Azure DevOps** in different environment.
* Evaluate requirements and implement them precisely for new or existing technologies that meet security and industry standards.
* Created CI/CD pipeines in **Azure** using **Jenkins** and **Octopus**.
* Maintaining and monitoring **Azure DevOps** and wrote the automation script to set up all environment build and release pipelines.
* Built end to end **CI/CD Pipelines** in **Azure DevOps** to retrieve code, compile applications, perform tests and push build **artifacts** and push that to **DEV, UAT** and **PROD** environments.
* Deployed to orchestrate the data from Data Lake store using **Azure Data factory**.
* Strong experience in building production infrastructure using the code and repeatable designs leveraging **Terraform**. Infrastructure automation using **Terraform**.
* Build End to End process for Ephemeral servers design, launch a server automatically and run the process after ending the process it will terminate the instance.
* Maintaining and deploying the Bots to **UiPath orchestrator** through the **Azure DevOps**
* Working on the **Robotic Process Automation(RPA)** and setup the hole infrastructure to run the bots using **AWS instances** Automatically.
* Setting up the standard in the **Azure DevOps** setting the permissions for all the groups and created new teams and added the users in it with **powershell script.**
* Served as a first point of contact for all IT related issues for **Terraform** by supporting resolution of end user trouble tickets and support requests, ensuring all issues are being resolved in a timely manner to customer satisfaction while maintaining S.O.P.
* End to end solution for hosting the web application on AWS cloud with integration to **S3 buckets**.
* Created new **AWS Accounts** for many teams and regular update in **confluence** regarding setting up of new Accounts, AD groups and required permissions.
* Restricted **all s3 buckets for public access as part of Cloud security strategy**. All buckets have been made private through **Terraform HCL script**.
* Efficiently worked in both **Kanban and Agile/Scrum methodologies.**
* Worked in a team that involved different development teams and multiple simultaneous software releases.
* Participation in product **Backlog Refinement, Sprint Planning, Sprint Review and Retrospectives to drive quality releases**.
* Performed builds for various environments like **Dev**, **UAT(Testing),**  and **Production (PROD)**.

**Environments:-** Azure DevOps, Jenkins, Terraform, UiPath Orchestrator, AWS Cloud, Data Lake Store, and S3 buckets with Kanban and Agile methodologies**.**

**Truist, Salem, NC Nov 2021 – Jun 2022**

**Azure DevOps Process Engineer.**

**Description:**

 Managed and optimized Microsoft Azure infrastructure, leveraging PowerShell scripting for automation and Azure DevOps for project management. Configured Azure services including Vnets, load balancers, and blob storage. Implemented Azure AD with SSO and multifactor authentication. Migrated workloads to Azure IaaS and administered Office 365. Utilized Ansible Tower for configuration management and Docker/Kubernetes for containerization. Developed PowerShell scripts and ARM templates for provisioning and deployment automation. Advocated for infrastructure as code principles using Terraform, facilitating cloud setup for new teams. Proficient in Azure, PowerShell, Docker, Kubernetes, Ansible, and Terraform.

**Responsibilities:**

* Worked on **Microsoft Azure** (public) cloud to provide **IaaS** support to client. Created virtual machines through **powershell script** and **Azure portal**.
* Monitor and maintain the health of the overall **VSTS** on **Azure platform.**
* Identified opportunities to improve infrastructure that efficiently uses the **Microsoft Azure Windows Server, Microsoft SQL server, Microsoft Visual studio, Windows Powershell, Cloud infrastructure**.
* Configured **block blobs**, **page blobs** and **append blobs** in Azure for storing large amount of unstructured object data such as text or binary data, that can be accessed from anywhere via **HTTP** and **HTTPS**.
* Developed powershell scripts to automate the project creation, setting permissions for users, groups in **Azure DevOps**
* Wrote **Power Shell Scripts** to move logs from IIS web and application servers to shared storage location as part of log redundancy policy and scheduled in task Scheduler.
* Getting the data from **Azure DevOps** with powershell script and storing that data in SQL server.
* Configured **Vnets** and subnets as per the project requirement. Configure **Azure blob storage** and Azure file servers. Configured **private** and **public** facing **Azure load balancers**.
* Setting up the standard in the **Azure DevOps** setting the permissions for all the groups and created new teams and added the users in it with **powershell script.**
* Implemented **Azure AD** using AD connect, configured SSO and multifactor authentication. Also configured SSO from Windows 10 based computer which is joined to Azure AD.
* Migrated moderate workloads from on premise to **Azure IaaS** and published web services API’s using Azure API management service.
* Administered complete **Microsoft Office 365** for local and remote users including Exchange, Lync, office and local on premises active directory syncing with **Azure AD**.
* Working on **Azure DevOps** and it makes easy to view and edit the project description, view or add members, and check the latest activity. It is even easier to get started with a new project, and leverage all the built in DevOps functionality of **VSTS.**
* Developing **PowerShell scripts** and **ARM templates** to automate the provisioning and deployment process.
* Build the most complex **automated deployments** using configuration management technology in **Ansible Tower.**
* Used **Ansible** and **Ansible Tower** as configuration management tool to **automate repetitive tasks**, **quickly deploying critical** **applications** and proactively manages change.
* Deploying and maintaining multi-container applications through **Docker**, orchestrated containerized application using **Docker-Compose** and **Kubernetes**.
* Created **Docker images** using **Dockerfile** and worked on Docker container snapshots, removing images and managing docker volumes.
* Managed Docker Orchestration and Docker containerization using **Kubernetes**.
* Managed major architectural changes from single server large software system to a distributed system with **Kubernetes** orchestration.
* Helped new teams in setting up cloud infrastructure to host their applications via **terraform** scripts automation.
* All policy changes have been made mandatory to use infrastructure as code **(terraform)** automation instead of manual approach in cloud environment.

 **Environments:-**Microsoft Azure (IaaS), Azure DevOps, PowerShell scripting, Azure AD, Office 365, Ansible Tower, Docker, Kubernetes, and Terraform automation.

**Amtrak, Washington D.C. Apr 2021 – Nov2021**

**Cloud Engineer**

**Description:**

Experienced in setting up, customizing, and managing VSTS environments, AWS Cloud Formation, and Azure Infrastructure. Proficient in deploying and scaling software artifacts across diverse engineering environments. Skilled in disaster recovery planning, including synchronization of on-premise data with Azure VMs. Proficient in configuring VMs, availability sets, and scale sets for resilience and scalability. Experienced in AWS Code Deploy, Ansible, Terraform for automation, and Python/Bash scripting for AWS tasks. Proficient in Azure storage solutions, Docker, Kubernetes orchestration, Helm, and Azure PaaS/IaaS services. Strong expertise in VSTS build pipelines, enhancing performance through Azure cache memory, and optimizing deployments for efficient operations.

**Responsibilities:**

* **VSTS** environment setup, configuration, customization of **VSTS Work items**, and Customization on VSTS process template.
* Working on **AWS Cloud Formation templates** to create custom sized **VPC Subnets**, NAT to ensure successful deployment of Web applications and database templates.
* Working on **Build and deploy** software artifacts and code across multiple engineering environments and the production environment.
* Created recommendations on how to duplicate a subset of on premise machines to the **Azure Infrastructure as a Service (IAAS)** offering which will be used for disaster recovery. This analysis included the specifics to synchronize on premise data with **SQL Server** and **SharePoint instances** hosted in VMs
* Deployment of **APIM API** Management and Application Service Environment (ASE) Resources of App Service Plans.
* Configured VMs availability sets using **Azure portal** to provide resiliency for **IaaS** based solution and scale sets using **Azure Resource Manager** to manage network traffic.
* Working on **AWS Code Deploy** and **Auto Scaling** groups to implement **Blue/green deployment strategy** with **Kubernetes** by creating new applications using **Cloud formation templates** and **Route53** to direct traffic from old to new environment via DNS.
* Used **Ansible** and **Ansible Tower** as configuration management tool to **automate repetitive tasks**, **quickly deploying critical** **applications** and proactively manages change.
* Managed and maintained highly available **EC2 Instances** using **Terraform and cloud formation** and wrote new plugins to support new functionality in **Terraform**.
* Used **Python** & **Bash** scripts, included **Boto3** to supplement automation provided by **Terraform** for encrypting EBS volumes, AMI backups and scheduling Lambda functions for routine AWS tasks.
* Configured **block blobs**, **page blobs** and **append blobs** in Azure for storing large amount of unstructured object data such as text or binary data, that can be accessed from anywhere via **HTTP** and **HTTPS**.
* Deploying and maintaining multi-container applications through **Docker**, orchestrated containerized application using **Docker-Compose** and **Kubernetes**.
* Managed **Kubernetes** charts using **Helm**. Created reproductive builds of the kubernetes applications, managed kubernetes manifest file and managed releases of Helm packages.
* Working with Azure **Paas and Iaas Solutions** like Azure **Web Apps, Web Roles, Worker Roles**, and **SQL Azure and Azure Storage**.
* Created Cache Memory on Windows Azure to improve the performance of data transfer between **SQL Azure** and **WCF services.**
* Working on Various environments in **VSTS Build pipeline** according to the Requirements.

**Environments:-** VSTS (Visual Studio Team Services), AWS (Amazon Web Services), Azure (Azure Resource Manager, Azure Portal), Kubernetes, Docker, Ansible, Terraform, Python scripting, and Azure PaaS/IaaS solutions.

**AWS & DevOps/ETL Engineer**

**Transamerica, Plano, TX Apr 2018 – Mar 2021**

**Description:**

 Managed and developed Docker images for a tech stack including Cassandra, Apache, and Java services on Google Cloud Kubernetes. Collaborated with teams to engineer automated solutions. Migrated on-premises datacenters to AWS Cloud using AWS VPC and VPN. Deployed and administered AWS infrastructure, converted Cloud Formation templates to Terraform, and utilized Jenkins for automation. Managed Red Hat OpenShift cluster on AWS. Configured Ansible for orchestration and security. Implemented Docker containers, Kubernetes, and OpenShift for microservices deployment. Conducted Informatica upgrades, code migrations, and troubleshooting. Automated tasks with Python, Shell, and Ruby scripts. Proficient in Jira, Confluence, and Control-M.

**Responsibilities:**

* Maintained and developed **Docker images** for a tech stack including **Cassandra, Apache**, and several in house written **Java services**, running in **Google Cloud on Kubernetes.**
* Work closely with our **Architects, Engineers**, **Product Owners** and Application Leads to engineer and build automated solutions.
* of customer's on-premises datacenter with **AWS Cloud** using **AWS VPC and VPN & Direct connect services**.
* Deployed on **AWS** using **EC2**, **EBS**, Trusted Advisor, **S3**, **CloudWatch, CloudFront**, **IAM**, **Security Groups**, **and Auto-Scaling.**
* Converted all Cloud Formation templates to **Terraform** for infrastructure as code.
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing **Terraform code**.
* Administration and managing of Red Hat **OpenShift** cluster with Red Hat Linux 7.x which includes installation, testing, tuning, upgrading and loading patches, troubleshooting server issues on AWS.
* Used Jenkins as continuous integration tool **creating new jobs**, managing required **plugins,** configuring the jobs selecting required **source code management tool, build trigger, build system** and **post build actions**, scheduled **automatic builds**, notifying the build reports.
* Responsible for design and maintenance of the **GIT Repositories, views,** and the access control strategies.
* Working with **Ansible Playbooks**, modules and roles and Set up Continuous Integration for major releases in **Jenkins.**
* Configured **Ansible control machine**, **Ansible Playbooks** (written in YAML language), roles and modules. Used **Ansible Vault** and **Ansible Tower** to secure sensitive data and control the access of playbooks. Implemented IT orchestration using Ansible to run tasks in a sequence which can work on different servers.
* Created **Docker** file for each micro service's and also changed some of the Tomcat configuration file which are required to deploy Java based application to the **Docker** container.
* Working on several **Docker** components like Docker Engine, Hub, Machine, Compose and **Docker Registry**.
* Done the day-to-day Jira/Confluence desktop support by working on the daily **Jira tickets**.
* Involved in developing custom scripts using **Python**, **Shell (bash), Ruby** to automate jobs. Manage data collection using **framework** and **Python** applications.
* Experience with Microservices using Docker Containers, Kubernetes, OpenShift, deploying applications in multiple Public and Private clouds like VMWare, Amazon Web Services.
* Responsible for monitoring services are up and running in all environments.
* Installed and upgraded Power Center version **10.1.1 to 10.2.0** on UNIX platform.
* Performed Informatica Upgrade from **10.2.0 to 10.4.1** version.
* Performed code migrations on IDQdeveloper tool.
* Upgraded Informatica **BDE/IDQ (Developer tool)** version **10.2.0 to 10.4.1 DEI** version.
* Involved in Informatica code migration to different environments (Dev, Test, Model, Prod) using static Deployment groups.
* Informatica Administration activities involving hotfix installations, code reviews and migrations, Emergency Bug Fixes (EBF's).
* Trouble shooting and supporting Informatica PowerCenter, IDQ, PWX Environments.
* Adding up the necessary ODBC, DB2, Salesforce and TNS connections for the application connections.
* Created Scripts to monitor the services and send email alerts on status of the services.
* Daily Backups of Informatica environments using the **PMREP** and cron job.
* Used **Control-M** tool for scheduling jobs.
* Documentation of detailed build configuration, Build procedures and change history for releases.

**Environment:** GIT, Maven, Ant, Jenkins, Java/J2EE, MySQL Database, Apache Tomcat Web Sphere, Python, Ruby, shell, XML, UNIX, Linux(RHEL), Ansible, Docker, Splunk, Windows XP, JIRA, AWS,Informatica 10.2.1,10.4.1,BDE,IICS.

**Oncor, Dallas, TX**

**Informatica/ETL Administrator**

**OCT 2015 to Mar 2018**

**Description:**

Led architecture, technical analysis, deployment, and administration of data warehousing using Informatica PowerCenter. Configured Informatica environments, managed user permissions, and ensured service availability. Developed scripts for service monitoring and email alerts. Executed code migrations across environments and managed database connections. Monitored resource utilization and addressed performance issues. Installed and configured PowerCenter on UNIX platform, managed session and workflow logs for error handling. Administered Informatica environments, including installation, configuration, tuning, monitoring, and backups. Built and managed Informatica Grid Environments. Conducted configuration management for Informatica mappings, sessions, and workflows.

**Responsibilities:**

* Responsible for the **Architecture**, **Technical analysis**, deployment and **administration** of data warehousing using Informatica Power center.
* Set up and configured Development, Pre-test, Test Informatica environments 10.0 with a Single Master Node.
* Created Users, folders, user management, groups and permissions, privilege management.
* Responsible for monitoring services are up and running in all environments.
* Created Scripts in order to monitor the services and send email alerts on status of the services.
* Involved in Informatica code migration to all different environments(Development,Pre-test,Test).
* Adding up the necessary **ODBC** and **TNS** connections for the application connections.
* Monitoring resource utilization and proactively identifying **Informatica** job performance and resource issues (network, disk usage, memory usage, server side limitation).
* Responsible for the maintenance of all the **Informatica** environments (**Production, Test, Development**) including installation, configuration, performance tuning, monitoring and backups.
* Created **Repository** and **Integration** Services configured them on Master node.
* Involved in building Informatica Grid Environments
* Installed and configured Power Center 10.1 and 10.1.0 on UNIX platform.
* Worked with Session Logs and Workflow Logs for Error handling and Troubleshooting in all environments.
* Installed and build **Informatica** Power center 10.1.0 with different environments (Market,Test-grid,Certify,IFT).
* Create folders, grant user access to **Informatica** Repository.
* **Informatica** Administration activities involving hotfix installations, code reviews and migrations.
* Performed Configuration Management to Migrate Informatica mappings/sessions /workflows from Development to Test environment.
* Responsible for the maintenance of all the Informatica environments (Production, Test, Development) including installation, configuration, performance tuning, monitoring and backups.

**Environment:** Informatica Power Center 10.1, Oracle 11g, Sql Plus, RHEL 7.2(maipo).