

## SUMMARY

- **Around eight years of experience comprising Linux Administrator and Software Configurations Management with Expertise in the areas of Build and Release management, taking care of CI/CD pipeline, cloud solutions, and containerization.**
- Expertise designing architecture and working on **AWS** and **Azure** for various domains
- Strong experience in integrating DevOps tools, building **CI/CD** pipelines, and working in **DevOps/Agile** operations processes
- Good experience in Software Product Development, Process Automation, Build and Deployment Automation, Release Management, Packaging Quality Control, Source Code repository & Environment management
- Good experience in building/maintaining **Docker** images and containers & orchestrating container clusters using **Kubernetes**.
- Expertise in working with AWS Creating **EC2** instances, adding **EBS** volumes, and knowledge with **VPC, Route53, RDS, S3, IAM, SNS, SQS, SWF, SES, Autoscaling, Storage gateway, Elastic Beanstalk, CloudFormation** and **CloudWatch**
- Worked with containerization tools, can implement transition to **Docker** and develop distributed cloud systems using **Kubernetes** and **Helm package** manager for kubernetes.
- Experience in implementing **Azure** Application Insights and **OMS** for monitoring applications and servers. Solution development for OMS Alerting and Remediation.
- Improved application performance using **Azure** Search and Internet of Things (IoT) optimization and Implemented Azure Application Insights to store user activities and error logging.
- Extensive experience with **Jenkins** building end-to-end pipelines
- Good Experience in using version control systems such as **GIT, SVN**, and used Source code management client tools like **GitBash, GitHub, Git Lab**. Good knowledge of **Teamcity, Subversion, Git (Bitbucket/GitLab)**, and **Artfactory** or in similar applications
- Deep knowledge in branching, tagging, and maintaining the version across the environments using SCM tools like **Git, GitLab, GitHub**, and **Subversion (SVN)** on Linux and Windows platforms.
- Good experienced in configuring, patching, and administrating Linux (**RHEL, CentOS, Ubuntu, Solaris, SUSE**) and **Windows**
- Experienced in writing IaC scripts with **Terraform** from scratch for development, staging, production and disaster recovery.
- Knowledge in **Ansible** and **RedHat Ansible Tower** for provisioning, configuration management, automation, deploying apps
- Extensively worked with Scheduling, deploying, managing container replicas onto a node using **Kubernetes** and experienced in creating Kubernetes clusters work with Helm charts running on the same cluster resources.
- Good experience in writing **Helm Charts, Kubernetes YAML** files to deploy microservices into Kubernetes clusters
- Good knowledge and worked on several **Azure, Google Cloud Platform** and **IaaS, PaaS, and SaaS** tools.
- Expert in version controlling with **Git** and **SVN** and writing with **Maven, Ant, and Gradle** Scripts to automate the build process
- Experienced with configuring and using **Sonatype Nexus** and **Artifactory** Repository Managers for **Maven** and **ANT** builds
- Worked on **Java** and **.NET** apps by automating builds from end-to-end using tools like **SonarQube, VisualStudio** using Jenkins
- Worked in all the phases of the **SDLC** with a focus on the build-and-release of quality software in **Waterfall, Agile, & Scrum**.
- Experience in using **Tomcat, JBOSS, WebLogic**, and **WebSphere** Application servers for deployment and worked with multiple databases like **MongoDB, Cassandra, MySQL, PostgreSQL, ORACLE**
- Skilled in monitoring servers using **Nagios, Datadog, Splunk, CloudWatch, Prometheus** and **Grafana**, and using **ELK Stack ElasticSearch Logstash**
- Experienced in installing, configuring, supporting, and troubleshooting Unix/Linux Networking services and protocols like **NIS, NIS+, LDAP, DNS, TCP/IP, NFS, DHCP, NAS, FTP, SSH** and **SAMBA**.
- working knowledge of **Python** programming
- Written **Shell** and **PowerShell** scripts to perform deployments to **Jboss** and **Tomcat** Web servers.
- Experience **supporting 24x7** production computing environments. Experience providing **on-call** and weekend support.

## SKILLS

<b>Cloud Technologies</b>	AWS, Azure
<b>Operating systems</b>	RHEL, CentOS, Ubuntu, SUSE, Sun Solaris, Windows, Unix
<b>Containerization</b>	Docker, Kubernetes
<b>IaC</b>	Terraform, CloudFormation
<b>Virtualization</b>	Vmware, ESX, ESXi, vSphere (4 & 5) , Citrix
<b>Source Control</b>	Git, Gitlab, Bitbucket, GitHub Enterprise, SVN
<b>Continuous Integration Tools</b>	Jenkins, Bamboo, Team City, Bitbucket Pipelines, Gitlab CI
<b>Build Tools</b>	Maven, Gradel, Ant
<b>Continuous Management</b>	Ansible, Chef, Puppet
<b>Scripting</b>	Shell, Bash, Python, PowerShell
<b>Monitoring / Logging</b>	Nagios, Splunk, ELK, Kibana, Grafana, New Relic
<b>Databases</b>	Postgres SQL, MySQL, Oracle, MongoDB, Redis
<b>Bug Tracking</b>	Jira
<b>Change Management</b>	Jira, Service Now

## EDUCATION

Cleveland State University, Cleveland, OH  
*Master of Information Systems / Security Assurance*

Cleveland State University, Cleveland, OH  
*Bachelor of Computer Science*

## EXPERIENCE

**CUNA Mutual Group**  Madison, WI  
*Cloud Automation / Devops Engineer*

Feb 2021 - Present

### Roles and Responsibilities:

- Involved in designing and deploying a multitude of applications utilizing almost all the AWS stack including **EC2, Route53, S3, RDS, DynamoDB, SNS, SQS, LAMBDA, REDSHIFT**, focusing on high-availability, fault tolerance, and auto-scaling
- Used **AWS IAM** service to provide fine-grained access to respective users. Managed IAM roles and permissions of users to AWS account through IAM.
- Used **CloudWatch** to monitor AWS resources to set up alarms for notification, automated actions, operation of the system, and respond to system-wide performance changes.
- Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Java, Node.js, Python on servers like Apache, Nginx, Tomcat.
- Configure and manage **AWS Glacier**, to move old data to archives based on retention policy of database applications (AWS Glacier Vaults).
- Writing **Terraform** scripts from scratch for managing AWS resources such as EC2, S3, IAM Policies, EMR, EFS, EBS, RDS, VPC, Security Groups, NACLs, Route Tables, etc.
- Automating cloud infrastructure setup via **Terraform** and, AWS **CodeDeploy**
- Wrote **Terraform** scripts from scratch for building Dev, Staging, and Prod and DR environments
- Built complete Configuration Management for the Microservices using Kubernetes, Docker, and Ansible.
- Involved in writing various custom **Ansible playbooks** for deployment orchestration and developed Ansible Playbooks to simplify and automate tasks. Used **Ansible Vault** to protect encrypted data needed for tasks.
- Used **Ansible Tower** for scheduling playbooks and used GIT repository to store our playbooks.
- Implemented **Ansible** to manage all existing servers and automate the **build/configuration** of new servers. All server types were defined in Ansible such that a newly built server can be up and ready for production within minutes of OS installation.
- Implemented a **Continuous Delivery** pipeline with **Docker, Jenkins, GitHub**, and **AWS AMI's** such that whenever a new GitHub branch gets started, Jenkins automatically attempts to build a new Docker container from it
- Worked on **Docker engine** and Docker Machine environments to deploy the micro services-oriented environments for scalable multi-container applications.
- Utilized **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build, test, and deploy.
- Created **Jenkins** jobs to deploy applications to **Kubernetes** Cluster.
- Configured **Kubernetes** to deploy scale, load balance, scale, and manage Docker containers with multiple namespace versions
- Managed **Kubernetes** charts using **Helm**, created reproducible builds of the Kubernetes applications, managed Kubernetes deployment and service files, and managed releases of **Helm packages**.
- Developed and Implemented **Kubernetes manifests, Helm charts** for the deployment of microservices into k8s clusters
- Used **Jenkins** and pipelines to drive all microservices builds out to the Docker registry and then deployed it to Kubernetes. Created Pods and managed them using Kubernetes.
- Using **Jenkins AWS CodeDeploy** plugin to deploy to AWS.
- Deployed **.NET** applications to servers in an **Agile, continuous integration** environment and automated the whole process.
- Strong experience utilizing **Jenkins** for enterprise-scale infrastructure configuration and application deployments & checking out the code from **GIT**, and using **Ant/Maven** to build **Jar, war, tar**, and **ear** artifacts. Provisioning Web Servers in AWS and **DNS Route53** records.
- Responsible for design and maintenance of the **Git repositories**, views, and access control strategies and Managed Git repositories for branching, merging, and tagging.
- Managed the **Maven** Repository using the **Sonatype Nexus** to automate the builds process and used the same for the snapshots and releases of internal projects
- Maintained settings.xml in **Maven** for permissions to users and deploying the artifacts directly to Nexus Repository
- Experience in using **SPLUNK** for log analyzing and improving the performance of servers

- Automate the Build and deploy of all internal Java & .Net environments using various continuous integration tools and scripting languages(**Python, Shell, Powershell**)

- Built application and database servers using AWS EC2 and used **RDS** for **OracleDB**.

**ENVIRONMENT:** AWS, Terraform, Ansible, Docker, Kubernetes, Jenkins, Git, Maven, Nexus, Splunk, Powershell

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**Humana Inc.**  **Louisville, KY**  
*DevOps / SRE Engineer*

**Aug 2019 - Jan 2021**

### **Roles and Responsibilities:**

- Developed and implemented Software Release Management strategies for various applications according to the agile process.
- Extensively involved in Managing **Linux**, and **Windows** virtual servers on AWS **EC2** instance
- Provide highly durable and available data by using **S3** data store, **versioning**, **lifecycle** policies, and create **AMIs** for mission-critical production servers for backup, and RDS, Route 53, VPC, RDS, DynamoDB, SES, SQS, and SNS services in AWS cloud
- Worked on building a data center with **AWS**. Built Pre-prod environments AWS services like **EC2, S3, VPC, EBS, ELB, Auto-Scaling, Cloud Watch, Cloud Trail, IAM, SNS, SQS, RDS, DynamoDB, Cloud front, etc.**
- Managed servers on the Amazon Web Services (AWS) platform instances using **Puppet, Chef** Configuration Management.
- Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Java, Node.js, Python on servers like **Apache, Nginx, Tomcat**.
- Created, maintained, and handled different operations like maintaining and troubleshooting **EC2** instances, **S3, VPC**, and **ELB**.
- Build, manage, and continuously improve the build infrastructure for the software development engineering teams, including **implementing build scripts, continuous integration** infrastructure, and deployment tools.
- Expertise in writing new **plugins** to support new functionality in **Terraform**.
- Worked on administration, maintenance, and support of **Red Hat Enterprise Linux** servers.
- Experience in writing **Ansible** scripts and heavy **Shell, Perl, Python**, and **JSON** scripting
- Hands-on experience in container-based deployments using Docker, working with Docker images, automated builds using Docker Hub and Docker registries, **Kubernetes, Docker**.
- Worked on installing Docker using **Docker toolbox**; created Docker containers and Docker consoles for application life cycle.
- Worked on **Docker container** snapshots, attaching to a running container, removing images, managing directory structures, and managing containers.
- Using **Jenkins** AWS CodeDeploy plugin to deploy to AWS.
- Used Jenkins for automating Builds and Automating Deployments.
- Worked on developing **CI/CD** system with **Jenkins** on **Kubernetes** environment, Utilized **Kubernetes** and **Docker** for the runtime environment to build, test, and deploy, and troubleshoot pods through **SSH** and logs, wrote and modified Buildconfigs, templates, Imagestreams, etc.
- Create, maintain, and administering **GitHub** and **Subversion** repositories as source code management.
- Integrated **GIT** into **Jenkins** to automate the code check-out process.
- Create a **Jenkins** job to build the artifacts using **Maven**, deploy the **Terraform** templates to create the stack.
- Built **CloudFormation** and **Terraform** template using JSON.
- Python scripting for cloud infrastructure.
- Refined automation components with scripting and configuration management (**Ansible**).
- Designed **Ansible** playbooks using **YAML** to Provision several pre-mode environments.
- Extensively used **Maven** and **Ant** for building applications.
- Developed build and deployment scripts using **Maven** as the build tool, and integrated **Selenium** in **Jenkins**, to perform the automated integration test.
- Designed **Ant** and **Maven** scripts to automate the build process for **Java** projects in building artifacts for the source code.
- Set up /maintained Logging and Monitoring subsystems using Elasticsearch, Fluentd, Kibana, Prometheus, Grafana, and Alertmanager.
- Established infrastructure and service monitoring using **Prometheus** and **Grafana**.
- Configured monitoring of AWS Instances regularly using ops view and **New Relic** tools. Also, used **New Relic** for monitoring.
- Created scripts in **Python**, which integrated with **Amazon API** to control instance operations.

**ENVIRONMENT:** AWS, Terraform, Ansible, Docker, Kubernetes, Jenkins, Git, Ant, Maven, Nexus, EFK, Grafana, Powershell, New Relic, Python, Prometheus

### Roles and Responsibilities:

- Creation of **Build and Release** Plan, collection, analysis & presentation of Project Metrics weekly.
- Developed and supported the **Software Release Management** and procedures
- Setup and build **AWS infrastructure** with various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in **CloudFormation** JSON templates.
- Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache and IIS.
- Designed **AWS Cloud Formation** templates to create custom-sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
- Worked in Amazon AWS costing, provisioning, administration, monitoring, and troubleshooting.
- Designed, configured, and deployed Microsoft **Azure** for many applications utilizing the Azure stack, including Compute, Web & Mobile, Blobs, ADF, Resource Groups, Azure SQL DW, Cloud Services, and ARM focusing on high-availability, Disaster Recovery, fault tolerance, and Auto-scaling.
- Worked on **Azure** cloud services, storage, active directory, and Service Bus. Created and managed Azure AD tenants and configured the application integration with Azure AD. Integrate on-premises Windows AD with Azure AD and integrating on-premises identity with Azure AD.
- Handled the **migration** of the on-premises application to **AZURE** and provided the resources to enable them. Used all sorts of **AZURE** tools and auto-scaling policies for scalability, elasticity, and availability.
- Worked on solving the issues with **Databases migration to Azure** Cloud by assessing databases for compatibility using the latest version of the **Data Migration Assistant (DMA)**, preparing necessary fixes as **Transact SQL** scripts, and optimized the data transfer performance during migration.
- Used **CloudFormation** template to ensure repeatable deployments and automating the AMI image deployment.
- Designed AWS **CloudFormation** templates to create custom-sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
- Worked on a **POC** to improve cloud deployment reviewing CloudFormation, Chef.
- Worked on Managing the Private Cloud Environment using **Chef**.
- Setting up continuous integration and formal builds using **Bamboo** with **Artifactory** repository.
- Implemented Continuous Integration and deployment using various CI Tools like **Jenkins, Hudson, Bamboo, Chef, Puppet,** and **Sonatype Nexus**.
- Migration of the Source Code from **Apache Subversion (SVN)** to **BitBucket**.
- Documented process documents for Jenkins, **Bit bucket**, CD Pipeline, and Code deployment guide for Developers, Testers, and Production Management.
- Worked on build tasks using **Maven, Gradle,** and **GNU Make** files and worked with the development team to migrate **Ant** scripts to **Maven**.
- Migrated **ANT** projects into **Maven** projects and written maven POM files from scratch for multi-module projects.
- Used **Maven** to perform daily and weekly Software Builds.
- Managed and monitored the server and network infrastructure using **NAGIOS**.
- Automating backups by the **shell** for Linux and **PowerShell** scripts for windows to transfer data in the S3 bucket.
- Employed automation, utilizing **PowerShell** and batch scripting best practices.
- Worked on deploying WAR, JAR, and EAR files in Apache Tomcat, **WebLogic, WebSphere, JBoss** application servers in **Linux/Unix/Windows** environment.
- Scripting in multiple languages on **LINUX** and Windows using **Batch, Shell** and **PowerShell**

**ENVIRONMENT:** AWS, Azure, CloudFormation, Chef, Docker, Kubernetes, Bamboo, Bit bucket, Ant, Maven, Artifactory, Shell,, Nagios

### Roles and Responsibilities:

- Created **Puppet** modules and manifest files from scratch; Edited existing Puppet manifests and automated setup process.
- Experience in the setup of **Puppet** Agents, Puppet Master both in **Puppet Enterprise, Open Source**, and developing Catalogs using Puppet language.

- Developed **Puppet** Modules for installation & auto-healing of various tools like **Jenkins**, **Nolio agents**, **MSSQL**, **Nexus**, etc. these modules were designed to work on both Windows and Linux platforms.
- Implemented **Nagios** and integrated with Ansible for automatic monitoring of servers.
- Worked on the installation and configuration of the monitoring tool **Nagios** and implemented **Nagios core/XI** for monitoring Infrastructure resources
- Involved in the health check of servers after patching/rebooting and checked all the services
- Linux System Administration on **RHEL 5.x/6.x**. Experienced in **Bash** and **Python** scripting.
- Installation and configuration of **Oracle 8/9i** database on **Sun Solaris** Servers. Integrated Linux/Solaris with Active Directory.
- Experienced in User Management and plugin Management for **Jenkins** using the **LDAP** authentication process
- Administrated CI-CD pipeline using **Jenkins** as integration, Maven as build, and **Git** as Source code management tools.
- Configured **Jenkins** to implement nightly builds daily and generated a change log that includes changes from the last 24 hours.
- Helped with design and maintenance of the **Git** repositories.
- Used **ANT** scripts and Shell scripts to automate the build and release process.
- Created the **ANT** scripts and extension of existing ANT scripts for deployment of applications.

**ENVIRONMENT:** Puppet, Nagios, Jenkins, Linux, Ant, Git

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**Mistras Group**  Independence, OH  
Linux Administrator

**Apr 2014 - Feb 2016**

### **Roles and Responsibilities:**

- Worked on User administration setup, maintaining account, Monitor system performance using **Nagios** and **Tivoli**.
- Experience with **Systems performance monitoring**
- Worked closely with the database administration staff to ensure optimal performance of databases and maintain development applications and databases
- Aided in **TCP/IP** Networking troubleshooting and Linux Network Administration.
- **Installing** operating systems, **patches**, hardware, vendor **software packages**, **system customization**, and documentation of all departmental UNIX, PC-based workstations, and Terminal.
- Installed, Configured, and maintained **Red Hat Linux**, **CentOS**, servers, DNS, LDAP, NFS
- Implemented and maintained server virtualization using **VMware** and **Oracle Virtual Manager**.
- Maintained file systems, **system security** and performed the **tuning** of the servers. Also maintained partitioning and mounting the file systems
- Worked on account, user and group administration, Permissions policy management, and quota implementation.
- Used **shell** scripting for startups and backups for databases using bash shell scripting.
- Used **bash** script for system maintenance and file management
- **24x7 on-call** rotation for support of production systems.

**ENVIRONMENT:** Nagios, bash, shell, Linux