**YEEHANTH MULPURU**



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**Professional Objective:**

To build a career that offers challenges and growth with opportunities to employ my knowledge and skills while contributing my best to the organization.

**Summary:**

* Overall 12+ years of experience in AWS/Azure Cloud, DevSecOps, Configuration management, Infrastructure automation, Continuous Integration and Delivery (CI/CD). I can implement effective strategies for N-Tier application development in both Cloud and On-premises environments. Experience in dealing with Unix/Linux server administration.
* 6 years of experience in PaaS with RedHat OpenShift, Azure Kubernetes Service (AKS) and Amazon Elastic Kubernetes Service (EKS). Architecting, installing, and configuring the platform using tools and technologies like Ansible, Bash scripting, Git, ElasticSearch, Fluentd, Logstash, Kibana, Prometheus, Grafana, Alert manager, Istio Service Mesh, Kiali, Jaeger, Azure App/Container Insights, Log Analytics workspaces.
* 6 years of experience with Microservices using Docker Linux Containers, Kubernetes, OpenShift, deploying applications in multiple public and private clouds like Microsoft Azure, AWS and Bare-Metal Servers. Also, used Helm charts and Kubernetes Operator frameworks for deployments or installation.
* Extensive experience configuring and administering GitHub Actions/Jenkins CI and Azure Pipelines tool on self-hosted Linux machines and used Pipelines to drive all Microservices builds out to the AWS/Azure/Quay Container Registry and then deployed to OpenShift/AKS/EKS, Created Pods, ConfigMaps, Secrets, Selectors, Services, Routes, Ingress.
* Experience with Static Analysis Security Testing (SAST) tools like SonarQube, Sonar Cloud, GitHub Advanced security, Code QL and code dependency scanning
* Experience on Dynamic Analysis Security Testing (DAST) tools like RAPID7.
* 4 plus years of experience in cloud infrastructure provisioning tools such as Terraform, Terragrunt, Azure ARM and AWS cloud formation.
* Deploy AWS/Azure infrastructure and resources using automation and pull requests including Terraform and Jenkins. Familiarity with Amazon/Azure SDK's including CLI and Python
* On premises to Azure/AWS cloud migration experience
* OpenShift 3.11 to 4.x Migration experience
* Proficient in creating Docker images using Docker File and Pod Man, worked on Docker container snapshots, removing images, and managing Docker volumes and implemented Docker automation solution for CI/CD model.
* Experience with performance tuning, monitoring, and troubleshooting server OS issues (CPU, Memory and I/O).
* Experience working with developers and helping them to migrate applications from traditional IT to microservices using containers.
* Strong experience on Linux OS and virtualization technologies
* Experience in Middleware technologies like WebLogic, Tomcat, Jboss EAP, RedHat Fuse, Data Grid, ActiveMQ.
* Experience in monitoring/Logging tools like AppDynamics, Splunk, Jaeger tracing, Datadog and Sysdig.
* Strong knowledge of Java technology including troubleshooting and diagnostic tools – versions 1.6, 7, & 8 (Heap, thread, and profiling experience)
* Ensure the developed solutions are scalable, maintainable, resilient, and fully functional.
* Deploying, managing, and operating scalable, highly available, secure, and fault tolerant systems on OpenShift, EKS and AKS for our customers. Good knowledge with scripting languages to automate tasks (Ansible, Bash or similar)
* Excellent time management skills, self-motivated with excellent written and verbal communication skills and able to handle multiple priorities.

**TECHNICAL SKILLS**

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| **Containerization Tools** | Docker, Podman, AKS, EKS, AWS ECS, Apache Mesos, RedHat OpenShift, Helm |
| **Provisioning/CM Tools** | Terraform, Terragrunt, AWS Cloud formation, Azure ARM and Ansible |
| **Container Registry** | Azure Container Registry (ACR), RedHat Quay, AWS Container Registry |
| **API Gateways** | Oracle API Gateway, RedHat 3Scale, MuleSoft |
| **Application Servers** | Oracle Application Server 11g, Oracle Web Logic Server 12c, JBoss EAP |
| **Languages/Technologies** | Python, Shell Scripting, Bash Shell, Groovy, Power Shell, YAML, Java, Java/J2EE |
| **Middleware** | Oracle SOA 12c, Oracle Service Bus (OSB), BAM, BPEL Process Manager, RedHat Fuse |
| **CI/CD Tools** | Jenkins, Bamboo, GitHub Actions CI, Hudson, Tekton, AWS/Azure DevOps/Pipelines |
| **Version Control Tools** | Git, Subversion, GitHub, Bitbucket |
| **Build & Testing Tools** | Maven, Ant, Gradle, Selenium, JUnit, NUnit, xUnit |
| **Performing/Monitoring & Bug Tracking Tools** | ELK, AWS/Azure Monitor, Grafana, Prometheus, Splunk, Datadog, Confluence, Jira, Windows Hyper V |
| **Markup languages** | HTML, XML, XSD, XPath, XSLT, XQuery |
| **Operating Systems** | RHEL, CentOS, Ubuntu, Fedora, Debian, Solaris, Windows |
| **IDE Tools** | MS Visual Studio, NetBeans, Eclipse, IntelliJ IDEA, PyCharm, Oracle SQL Developer |
| **Webservers** | Apache Tomcat, Nginx, JBoss |

ACCOMPLISHMENTS

* Oracle Service Oriented Architecture 11g Infrastructure Implementation Certified Expert
* Java SE 7 Programmer I
* ITIL® Foundation Certificate in IT Service Management
* MuleSoft Certified Developer - Integration and API Associate (Mule 3)
* Implementing Microsoft AWS/Azure Infrastructure Solutions
* TOGAF 9 Foundation
* Microsoft AWS/Azure Solutions Architect Expert
* RedHat Certified Architect In Infrastructure
* RedHat Certified Specialist in Service Mesh for Resilient Microservices
* RedHat Certified Engineer (Ansible Automation Platform)
* RedHat Certified Specialist in Containers & Kubernetes
* RedHat Certified Specialist in OpenShift Application Development
* RedHat Certified Specialist in OpenShift Administration
* RedHat Certified Specialist in API Management
* RedHat Certified Administrator (RHCSA)

PROFESSIONAL EXPERINCE

**Deloitte Consulting LLP, Mechanicsburg, PA**

**Role: Senior OpenShift/Kubernetes DevSecOps Engineer Feb’ 19 – Present**

**Responsibilities:**

* Installation of the OpenShift 4.10 clusters with both installer-provisioned infrastructure (IPI) and user-provisioned infrastructure (UPI) methods on Azure VM’s
* Worked on installation and configuration of Azure Managed RedHat OpenShift (ARO) and AKS
* Worked on post installation activities of OpenShift/AKS clusters like Configure Enterprise Certificate Authority, troubleshooting certificate issues, setup enterprise authentication by integrating with Azure Active directory, Configure persistent storage.
* OpenShift/AKS Cluster Monitoring and Logging Operator installation/configuration. Alert manager configuration to send email alerts.
* Extensively used OpenShift/AKS Config maps, secrets, Azure App configs and Azure key vault to store sensitive configurations like passwords, TLS certificates etc.
* Implement and destroy AWS infrastructure including EC2, S3, RDS, SQS, SNS, MQ and Lambda. Create auto-scaling in conjunction with AWS ELB load balancers and WAFs Using Terraform. Experience with AWS ACM certificate management and AWS IAM best practice such as roles, STS tokens and cross-account practices.
* Used best practices of Terraform state file management using remote backends AWS S3 and Azure Storage. Utilized AWS Secrets Manager and Azure Key Vault for managing sensitive information, such as API keys, credentials, and other secrets within Terraform configurations
* Installed and configured Quay container registry operator along with Quay container security and Quay Bridge Operator.
* Configured Quay Operator Object storage as Microsoft Azure Storage
* Configured Azure AD OIDC for RedHat Quay registry to allow centralized user management, enhanced security, and single sign-on (SSO)
* Configured and used Quay pull through cache feature to store frequently used images in cache for 24 hours to improve performance. which helped to communicate with external public/private container registries for enhanced security to OpenShift cluster.
* Installed and configured RedHat OpenShift Service Mesh. Implemented Istio Authentication and Authorization policies to secure pods/microservices within the OpenShift. Configured Istio ingress gateway to use custom CA certificates to achieve end to end TLS communication.
* Used Quay Container Security Operator to monitor Container image vulnerabilities and worked with teams to remediate the issues
* Used readiness and liveness probes within the Kubernetes deployments
* Worked with OpenShift internal container registry, Azure container registry (ACR) and RedHat Quay container registries.
* Heavily used Bash Scripts for POD or Application health checks, custom monitoring and ad hoc OpenShift administration or maintenance tasks.
* Used GitOps concepts to store cluster configurations as YAML files and storing in GIT repository to avoid configuration drift across environments
* Troubleshoot OpenShift/AKS cluster issues like operator degradation, recover failed worker nodes etc
* Architecting solutions to break up the Monolith that does not scale well into Microservices
* Implement Cloud-Native services with Scalability, Elasticity, High Availability, Standardization.
* Created Solution Architecture artifacts and Coordinated design and technical sessions within the team
* Lead all integration configuration activities regarding 3Scale API gateway.
* Build DevSecOps pipelines to automate deployments of Microservices using GitHub Actions by including quality gates using CodeQL, SonarQube, Junit, AWS/Azure Container vulnerability scan
* DevSecOps pipelines implemented will include automated Java microservice maven builds, posit/R, code unit tests, code static vulnerability scan, Selenium, Integration/Functional tests, Container security scans, DAST scans
* Proficient knowledge with Helm charts to create, package and configure Kubernetes applications in AKS/OpenShift
* Extensively used Ansible to Automate OpenShift/AKS configuration and application deployments when setting up new environments.
* Automated the deployment of JAVA Springboot microservices using Kubernetes and helm resulting in 60% reduction in deployment time.
* Installed Aqua for security and vulnerability scanning of images.
* Deployed n-tier architecture on AWS/Azure cloud using Terraform IaC tool using services like EC2, S3, VPC’s, Subnets, Azure VM’s, Network security groups, Virtual networks, AKS, EKS, ARO, ROSA etc.
* Integrated Ansible playbooks with the Terraform to provision the infrastructure in AWS/Azure
* Good experience with AWS/Azure providers in Terraform. Also implemented Terraform modules for code reusability using DRY principle.
* Used Terraform extensively to Provision Azure infrastructure services like VM’s, Azure storage (Blob/File), V-Net’s, networking, Azure SQL Databases, AKS, Load balancers, Azure Data Factory, Logic Apps etc.
* Follow best practices like 12-factor apps, OpenAPI specification.
* Led the evaluation of monitoring tools to be used in OpenShift/AKS container platform and finalized in Prometheus, Datadog and Grafana.
* Implemented OpenShift/AKS cluster and application logging solution with ELK stack and Splunk to centralize and query logs.
* Implemented Service Mesh Solution using tools Istio, Jaeger and Kiali to secure the traffic between the microservices, end to end TLS communication, service principal and Authorization policies between services.
* Implemented distributed tracing server using Jaeger that centralizes and displays traces associated with a single request between multiple microservices.
* Production support and troubleshooting issue for all Integration RedHat Fuse/3Scale and Container based tools
* Develop automation scripts using enterprise IaC tools for deployments and platforms operations.
* Participate in troubleshooting any issues as necessary in AWS/Azure cloud environment
* Review and validate implemented technology designs, and processes and recommend improvements as needed to optimize cost, performance, and compliance posture.
* Deploy tool updates as required while implementing integrations when they arise
* Work closely with DevOps Engineering teams and implement best practices.

**Environment:** OpenShift 4.10, AKS, RedHat Fuse 7.10, Apache Camel, Spring boot, RedHat 3Scale API Gateway 2.11, Docker, Podman, RHEL8, Terraform, Ansible, Kibana, Elastic Search, Prometheus, Grafana, Splunk, Jenkins, GitHub Actions, Istio, Jaeger, Kiali, OEM 13C, REST, JSON, Oracle Database 12c, AWS/Azure SQL DB, Soap UI 5.0.0, Ready API, SAML, OAUTH, OpenID, Selenium, RedHat Code Ready Studio, SonarQube, RAPID7, GitHub Advanced Security

**Deloitte Consulting LLP, Mechanicsburg, PA**

**Role: Cloud DevOps Engineer Mar’ 18 – Feb’ 19**

**Responsibilities:**

* Extensively worked with AKS/EKS/OpenShift cluster installation and operational support.
* Extensive knowledge of Linux Containers, Kubernetes, and deployment of containerized applications/microservices architectures.
* Support will include native cloud services in the respective platforms as well as third party services and migration.
* Develop and support enhancements and new functionality to automate deployments in a microservices architecture environment
* Experience with automation tools to streamline and standardize our cloud deployments like AWS cloud formation, Azure ARM and Ansible.
* Maintain and enhance automation to support setup and provisioning of new projects in OCP
* Installation and configuration of RedHat OpenShift 3.11 using Ansible playbooks.
* Configured OpenShift/AKS Authentication with Azure AD, Cluster monitoring with Prometheus/Grafana and Alert Manager.
* Perform OpenShift/AKS/EKS cluster upgrades.
* Perform regular Pod health checks on environments.
* Support all additional projects and cloud users in activities around automated deployment of their applications into OCP.
* Manage automation playbooks and documentation related to OpenShift/AKS/EKS.
* Support infrastructure, security, Platform as a Service (PaaS) and other updates involving DevOps environments.
* Migrate workloads from OpenShift 3.11 to 4.x.
* Hands on Automation experience and experience building deployment pipelines and managing configurations.
* Experience administering Java-based application servers, especially RedHat Jboss and Oracle WebLogic.
* Experience with CI/CD tools such as Jenkins and integrating SAST/DAST scans.
* Experience with application monitoring tools such as Grafana, Prometheus, Jaeger Tracing and AWS/Azure Monitoring stack.
* Working knowledge of networking topics such as protocols, load balancers, firewalls, etc.
* Excellent analytical skills, troubleshooting and problem-solving ability.
* Performs on-call activities as needed for the environment and technologies and Managing cloud infrastructure with 24x7 production operations.
* Involved in capacity planning of OpenShift clusters. Enforced project Quotas and Limit ranges to avoid overcommitting of CPU/Memory resources of the cluster.
* Managing an environments DEV, QA, UAT, Stage and PROD for various releases and designed instance strategies.

**Environment:** OpenShift 3.11, OpenShift 4.x, AKS. EKS RedHat Fuse 7.5, Apache Camel, Spring boot, RedHat 3Scale API Gateway 2.7, Docker, Podman, RHEL8, Ansible, Kibana, Elastic Search, Prometheus, Grafana, GitHub Actions, Istio, Jaeger, Kiali, OEM 13C, REST, JSON, Oracle Database 12c, AWS/Azure SQL DB, SonarQube, RAPID7, Soap UI 5.0.0, Ready API, SAML, OAUTH, OpenID, Selenium, RedHat Code Ready Studio

**Deloitte Consulting LLP, Harrisburg, PA**

**Role: Systems Administrator Feb’ 13 –Mar'18**

**Responsibilities:**

* Installed, Configured, Administered Web and Application Servers, Upgraded WebLogic server 10.x/11g/12c domains, clusters and managed servers in Development, Integration, QA and Production environments on various platforms.
* Analyzed the Network issue and database issue along with Network and Database teams.
* Built and supported all different components of Oracle Fusion Middleware 11g/12c, viz, SOA, OSB applications, including the WebLogic App server
* Supported mission critical systems in a 24X7 Highly Available (clustered) environment.
* Configured and administered Oracle Fusion Middleware infrastructure components, including and not limited to, WebLogic Suite (WLS, Coherence, and Java SE), Service Registry, Repository, SOA Suite (Adapters, BEPL, BAM, Business Rules, OSB, and OWSM)
* Created and modified Shell Scripts to facilitate the monitoring and administration of WebLogic application server instances and deployments of java applications.
* Tuned JVM Heap Size and Garbage Collection parameters for the optimal performance of the applications and WebLogic Server.
* Analyzed Memory Leak issues, Root Cause Analysis, and identified potential bottlenecks in various java applications using required tools.
* Troubleshot emerging application issues from WebLogic configuration to code issues.
* Responsible for certificate management in Oracle Enterprise Gateway through policy studio.
* Installed Configured and Administered Web and Application Servers, WebLogic server 11g domains, clusters and managed servers in Development, Integration, UAT and Production environments on various platforms.
* Provided Tier III/other support per project needs; investigate and troubleshoot issues; performed regular log analysis, security monitoring to identify any possible intrusions.

**Environment:** Oracle SOA Suite R 11.1.1.7, OSB 11g, OEG, OAG, BAM, OWSM, Soap UI 4.5.1, 5.3, Oracle OHS, OPA, Piwik, RUEI, BTM,Tomcat,JIRA,JAMA,Adobe ES3, ImageNow 7.1, 7.2.2, Oracle Weblogic 10.3.6, IBM Cognos, CrushFTP, AEM 6.4, Microsoft AWS/Azure, Oracle Weblogic 12c, OEM 13c, Oracle SOA Suite 12c, OHS 12c,

**Centraprise Corp, Edison, NJ**

**Role: Oracle Developer Jun’ 11 – Jan'13**

**Responsibilities:**

* Primarily responsible for Developing, Design and Orchestration of the requirement on SOA Suite.
* Implemented Oracle Service Bus (OSB) for messaging services, connecting to database and for creating Proxy over existing web services and used Transformations and Validations before Persisting Business Services to endpoint.
* Extensively used Error handling and Security in OSB before communicating with end point.
* Involved in unit testing of Business and Proxy services and used to monitor the flow of messages.
* Web service calls to retrieve/register Unique Identifier for the CDM Entity (UUID).
* Used complex SQL queries for Key Data Extract from MPS Tables and Staging Tables for the application.
* Used Secured Credential Fetch (SCF) to get Username and Password Tokens.
* Involved in performance tuning of components all over the application as needed.
* Extensively used, FTP Adapter, File Adapter, Database Adapter, Web service Adapter and JMS Topics and Queue.
* Implemented Message and Event Tracking service for tracking the status of messages by Leveraging Callback JMS Queue and Callback Handlers that will update the event status updates in Database.
* Used Error handling all over the BPEL to catch different kinds of faults and Log the Error message to the Weblogic LOG.
* Extensively used Flow N, Switch, While, Flow, and Pick activities.
* Used complex logic’s and Looping inside the XSLT Transformations which were used to build a Canonical data model (CDM) Translator.
* Used Mediator to route data in between the process throughout the design.

**Environment:** Oracle SOA Suite R 11.1.1.5, JDeveloper 11.1.1.3.0, OSB 11g, BPEL 1.0, SOAP 1.2, WSDL 1.0, Sybase 12.5, Oracle XML databases, Rapid SQL, Soap UI 3.0, Clear Case, Jenkins, Eclipse, Altova XML Spy.

Education

Master’s in computer engineering **GPA** **3.67/4.0**

University of Houston Aug 2010-May 2012

Bachelors in Electronics and Communication Engineering **Percentage 75**

Jawaharlal Nehru Technological University, Kakinada Sep 2006-May 2010