**Thirupathi Daram** [thirupathi1502@gmail.com](mailto:thirupathi1502@gmail.com)

PH # (816)377-2504

[https://www.linkedin.com/in/thirupathi-daram44821934/](https://www.linkedin.com/in/thirupathi-daram-44821934/)

**Summary**

* IT DevOps Engineering Professional with 10+ years of experience in CI/CD, IaaS, SaaS, Build & release management, automation for build and Middleware engineering, administration.
* Setting up Automated builds and deployments – **CI/CD** using Jenkins, Ansible, Bamboo, Nexus, Artifactory and bash Shell scripts.
* Design, write, and deploy software to improve the availability, scalability, and efficiency of Oracle Cloud Infrastructure products and services.
* Hands on experience with Cloud Operations and migration from on-premise to Amazon Web Services – Lift and Shift strategy.
* Create and maintain highly scalable and fault tolerant multi-tier AWS environments spanning across multiple availability zones using **Terraform**.
* Experience working with **Oracle** and **AWS** cloud services like **Instances, DNS management, Zones, Storage, Loadbalancer, Auto Scaling, Security groups, Block volumes, logging, compartments.**
* **Source code management for large teams using frameworks such as GIT, Teamcity, Terraform, Artifactory, Bitbucket, Docker.**
* **Build infrastructure as a code using Terraform and Cloud Formation Templates.**
* Proficient with container systems like **Docker** and container orchestration like **Docker Swarm**, **Kubernetes.**
* **Setting up CI/CD for applications, hosting static web content on S3, Deploy containers onto Kubernetes (EKS)**
* Experience in working with load balancers like CISCO Content service switch (CSS) and F5 LTM Load balancer.
* Experience with setting up monitoring at OS and Application levels – agent and agentless using Nagios, CA Wily Introscope, TPV, AppDynamics, New relic etc. Setting up Dashboards, Alerting.
* Experience in install/configuration/administration and troubleshooting of Websphere Application server, JBoss, MQ, Apache, Tomcat, IBM HTTP Webserver, F5 load balancers on Linux and windows environments.

**Professional Certifications**

* Certified Kubernetes Administrator (CKA) - Certificate ID: CKA-1900-003518-0100
* HashiCorp Certified Terraform Associate
* Docker certified Associate - License number: 12120283 url: <https://credentials.docker.com/lar1yvhq>
* AWS Solutions Architect – Associate level Validation Number: V9L2ZER1221EQY3W
* AWS Certified Developer – Associate level Validation Number: NX40MH92KN1E1N3Y

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **Container & Orchestration** | Docker, Docker Swarm, Kubernetes, EKS, Helm |
| **Cloud** | OCI-Instances, Autoscaling, BlockVolumes, DNS management, Load balancer, Fast connect; AWS – EC2, S3, RDS, IAM, Elasticache, Route53, Lambda |
| **IaC and Config Mgmt tools** | Terraform, CloudFormation, Ansible, Chef |
| **CICD/Automation tools** | Jenkins, Shell scripts, Git, Bitbucket, GitHub, concourse, Shepherd |
| **Languages** | Groovy, Bash/shell, SQL, python |
| **Load balancers** | nginx, F5, Traefik, apache, Layer7 XML gateway |
| **Application/Web Servers** | Websphere Application server, JBoss, Apache, Tomcat, nginix, MQ |

**PROFESSIONAL EXPERIENCE**

**Employer: ORACLE America Inc Feb’21-till date**

**Role**: Sr. Site Reliability Engineer

**Responsibilities:**

* Working on **Oracle Cloud Infrastructure** products and implemented the Email Delivery Service and migrated OnPrem Dyn Email Delivery to OCI within OCI Messaging Organization and Migrating existing Hostclass setups from On-Prem to OCI.
* Working in large scale cloud networking infrastructure, including network architectures, TCP/IP protocols, firewall management, routing, switching, ACLs, SSL/TLS.
* Provision the Oracle Cloud services using **Terraform** and automation of configuration management using Ansible and chef tools like writing Ansible playbooks and Chef recipes and cookbooks.
* Update and refactor Terraform code in Shepherd for each **new region build** and setup CICD for the Infrastructure updates and applications Deployments using Shepherd and Oracle DevOps service.
* Solve complex problems related to Dyn/OCI Email Delivery services to prevent problem recurrence. Design, write, and deploy software to new regions and improve the availability, scalability, and efficiency of OCI email delivery.
* Setting up the **OKE(Kubernetes)** cluster and deploy the containers for the containerized applications.
* Troubleshoot issues impacting large scale service architectures and customer facing web services in a **DevOps/SRE** environment.
* Understand and communicate the scale, capacity, security, performance attributes, and requirements of the service and technology stack.
* Monitor the availability of services within OCI Messaging and dealing with Customer issues and Incident tickets related to production tickets, security vulnerabilities and improving the availability of services.
* Setting up alerting and monitoring of our infrastructure for EMail Delivery services using Graphite and visualize using **Grafana** Dashboards and setup availability metrics and email **Inbound/Outbound** Email metrics and alerts.
* Provide end customer support with OCI services like **Email Delivery** and **Deliverability Dashboard** and **Streaming services**.
* Capacity planning, designing and implementing efficient infrastructure migration strategies and schedules to ensure High Availability of our infrastructure, and perform on-call duties to ensure our services never breach their SLA.

**Client: Nationwide Insurance July’18-Feb’21**

**Role**: Middleware Engineer

**Responsibilities:**

* Hands on experience in Installing, building **Kubernetes clusters** and setup CNI(Flannel) for Cluster communications on EC2 instances.
* Deployed applications that are containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Kubernetes Service (**EKS**)
* Build and Provision new environments using Ansible, Shell Scripts and Jenkins pipelines.
* Provisioning new EC2 instances, Setting up IAM roles, policies, S3 bucket creation, Certificates, Route53 DNS records updates etc. in AWS.
* Actively manage, improve, and monitor cloud infrastructure on AWS, automate DB backups creation, Snapshots creation, SW patches, and setup auto scaling policies.
* AWS S3 service for saving the copies of Build Artifacts and create release based buckets to store various modules/branch based artifact storage.
* Setup **Kubernetes/Docker** UI Dashboards for administration and dealing with RBAC for users and Service accounts.
* Using Concourse CI/CD pipelines for drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Hands on experience in AWS provisioning and good knowledge of **AWS services** like **EC2, S3, Glacier, ELB, RDS, IAM, Route 53, VPC, Auto scaling, Cloud Front, Cloud Watch, Cloud Formation, Security Groups**.
* 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
* Created dynamic routing/load balancing capability for Kubernetes by using ingress rules using **Ingress Controllers- Traefik**and **Nginx and Implemented Firewalls using Network policies.**

**Client: Vanguard May’16-July’18**

**Role**: Middleware/DevOps Engineer

**Responsibilities:**

* Build and deploy Java/J2EE applications, webservices etc on Tomcat and Apache servers.
* Created shell scripts for Build and deploy, setup Jenkins, installed all required plugins, integrated with JIRA, Nexus, GIT.
* Created freestyle projects, **Jenkins** pipelines, setup CI/CD, scheduled builds and deploys, Jenkins file-based deployments
* Involved with set up of continuous integration and daily builds using **Bamboo** with Artifactory repository manager Technical Tools. Orchestrated **Docker** container deployments using **Kubernetes/Docker** Swarm.
* SSL Cert Management – Generate certs, monitor and renewal. Installation of **Control-M** agent, setting up **Splunk.**
* Hands on experience on AWS services like VPC, EC2, S3, ELB, AutoScalingGroups(ASG), EBS, RDS, IAM, Route 53, CloudWatch, CloudFront, CloudTrail.
* Involved in designing and deploying a multitude application utilizing almost all of AWS stack focusing on high availability, fault tolerance and Autoscaling in AWS Cloud Formation.
* Implemented **Docker** for installing Ansible and Master slave nodes setup.
* Container management using Docker by writing Dockerfiles and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Used **AWS S3** service for saving the copies of Build Artifacts and created release-based buckets to store various modules/branch-based artifact storage.
* Created EBS volumes for storing application files for use with **EC2** instances whenever they are mounted to them.
* Setup OS and application level monitoring using Newrelic/AppDynamics – Installed agent, setup dashboard, alerting, notifications for on-premise and Cloudwatch metrics for AWS based services.
* Automated SW installation and deployments to multiple environments using Ansible roles and playbooks.

**Client: Wells Fargo NA Aug’14-May’16**

**Role**: Middleware Engineer

**Responsibilities:**

* Create and maintain fully automated CI/CD pipelines for code and infrastructure deployments.
* Installed, configured **WebSphere Application/Process** Server /ND/XD 8.5/8.0/ and IBM HTTP Server 6.0/7.0 in Redhat Linux and Windows.
* Created **Jenkins** pipelines, setup CI/CD for Websphere applications, scheduled builds and deploys, Jenkins file-based deployments
* Worked on AWS services and provision them as IaC using Cloud Formation.
* Installing Autosys agent on Nodes and Monitor, Control schedule Jobs, set up alerts from **Autosys WCC**.
* Involved in developing custom scripts using Python, shell to Automate the jobs.
* Responsible for installation, configuration, support, and performance monitoring of high profile applications running on IBM WebSphere Process/Application Servers, different Web Servers and Tibco EMS Servers.
* Deployed EAR/WAR files on multiple Servers/Clusters and maintained Load balancing, high availability and Failover functionality.
* Worked with IBM Support and development teams in resolving issues related to application memory leaks, analyzing java cores and heap dumps using **Thread** and **Heap analyzer** tools.
* Performed troubleshooting on Java applications using WAS logs, traces, Log Analyzer, Resource Analyzer/Tivoli Performance Viewer in production environment.
* Managed the security and performance optimizations for EJB containers and web applications in IBM WebSphere, IHS and Apache web servers. Generated http plug-in config and moved it to the web servers.
* Installed **Layer 7 XML Gateways** V7.3.1 for authentication and authorization of incoming and outgoing web service requests.

**Client: QSS Inc July’13-July’14**

**Role**: Middleware Engineer

**Responsibilities:**

* Worked on **Data Services Hub project for Obama Healthcare** Implementation.
* Installed, configured and maintaining Middleware servers WebSphere ND/XD 7.0/6.1, IHS v6.0/7.0, JBOSS 5.3.1 in Redhat Linux and Windows and implemented clustering and Load balancing
* Integrating enterprise wide J2EE applications and deploying on WebSphere and managing security policies for different applications and Configured WebSphere App server to use LDAP for Single Sign On.
* Experienced in installing the security certificates and installing **Site minder** for **SSO.**
* Installed layer 7 XML Gateways for authentication/authorization of incoming/outgoing requests to and from HUB and Configured GW Dashboard to monitor the policy falsified and successful requests to HUB.
* Tuned the JVM, web container, db connection pool, and web server parameters to get the maximum performance for applications.
* Used SOAP UI for testing and invoking Webservices.
* Utilized Log Analyzer for performance tuning and troubleshooting.
* Installed monitoring agents like New Relic, Log analyzer – Splunk Forwader on RHEL 6.3
* Configured **F5** service pools, pool members, VIPs, Health monitors etc, Implement Custom health monitors, configure session management and various types of profiles.

**Client: Wells Fargo NA Nov’11-June’13**

**Role**: Websphere Admin

**Responsibilities:**

* Installed, configured and maintaining WebSphere Application Server Base/ND/XD 7.0/6.1, WebSphere Process Server V6/V6.1 and IBM HTTP Server 6.0/7.0 in Redhat Linux and Windows.
* Responsible for installation, configuration, support, and performance monitoring of high profile applications running on IBM WebSphere Application/Process Server, and WebSphere Portal and integrate with different Web Servers and Tibco EMS Servers.
* Defined, documented, troubleshoot, and resolved issues relating to the business/BPEL workflows for the Re-Admin, from the vendor C2P supplied code, and supported the Environmental setup.
* Responsible for setting up the Dev, Test, QA, Pre-Prod and Production Environments which includes Installing the WebSphere, fix packs, Creating Profiles, nodes, federation of nodes, was instances, Application Servers, Clusters, Virtual hosts, Data Sources, MQ Connection factories, Plug-in configuration, and Service Integration Bus Configuration.
* Worked with IBM Support and development teams in resolving issues related to application memory leaks, system crashes by analyzing java cores and heap dumps using Thread and Heap analyzer tools.
* Performed troubleshooting on Java applications using WAS logs, traces, Log Analyzer, Resource Analyzer/Tivoli Performance Viewer in production environment.
* Installed upgrades and fix packs to the runtime environment as required decreasing vulnerability to production environment.
* Installed MQ Secure node-to-node secure communications between external clients and Company in the distributed environment.

**EDUCATION**

Masters in Electrical Engineering – University of Missouri Kansas City: 2011