 **Thirupathi Daram**

[thirupathi1502@gmail.com](mailto:thirupathi1502@gmail.com)

PH # (816)377-2504

<https://www.linkedin.com/in/thirupathi-daram-44821934/>

**Summary**

* Experienced IT Cloud Engineering Professional with 8 years of experience in Middleware engineering, administration and Devops.
* Extensive experience in Installation, Configuration, administration and troubleshooting of Websphere Application server, JBoss, MQ, Apache, Tomcat, IBM HTTP Webserver, F5 load balancer**,** BladeLogic, Nexus, Jenkins and Bamboo on various operating systems like Windows, RHEL, Ubuntu, Centos, Windows etc.
* Setting up Automated builds and deployments – **CI/CD** using Jenkins, Ansible, Bamboo, Nexus, Artifactory and bash Shell scripts.
* Hands on experience with Cloud Operations and migration from on-premise to Amazon Web Services – Lift and Shift strategy.
* Well versed with Horizontal/Vertical/Hybrid Clustering, Work Load Management (WLM) and Fail Over techniques, configuring Data sources, JMS setup.
* Experience working with AWS services like **EC2, RDS, Elasticache, S3, IAM, VPC, EBS, ELB, Auto Scaling, Security groups, Route 53, Cloud Front and Cloud Watch.**
* Proficient with container systems like **Docker** and container orchestration like **Docker Swarm**, **Kubernetes.**
* **Setting up CI/CD for Web applications, hosting static web content on S3, Deploy containers onto Kubernetes etc.**
* Experience in working with load balancers like CISCO Content service switch (CSS) and F5 LTM Load balancer.
* Expertise in Deploying and troubleshooting the J2EE Applications (WAR & EAR) on various stand alone and clustered application servers.
* 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.
* Performance tuning, troubleshooting, providing Level-3 Production support, on-call 24x7 rotation, mentoring offshore, Documentation using Sharepoint, confluence, Shared drives and WIKI.
* Webserver configurations – setting up vhosts, reverse proxy, mod\_cluster, SSL Setup, Integration with App servers, implemented log rotation

**Professional Certifications**

* **Certified Kubernetes Administrator (CKA) -** Certificate ID: CKA-1900-003518-0100
* **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**

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| --- | --- |
| **Application/Web Servers** | Websphere Application server, JBoss, Apache, Tomcat, nginix, MQ |
| **Cloud** | AWS – EC2, S3, RDS, IAM, Elasticache, Packer, Cloud Formation, Cloudwatch, SES, ElastiCache, Terraform. |
| **Java/J2EE Technologies** | HTML, JavaScript, XML, J2EE 1.6/1.7, JDBC, Servlets, JSP,JMS, SQL |
| **Config Mgmt/Automation tools** | Jenkins, Ansible, Shell scripts, Git, SVN, Bitbucket, Artifactory, github, Spinnaker |
| **Container Services** | Docker, Docker Swarm, Kubernetes, EKS |
| **Load balancers** | nginx, F5, Traefik, apache, Layer7 XML gateway |

**PROFESSIONAL EXPERIENCE**

**Client: Nationwide Mutual Insurance, Columbus, OH July'18 – Till date**

**Role**: Sr.Middleare/DevOps Engineer

**Responsibilities:**

* Installation, Configuration, Administration of Middleware products like **WebSphere**, **Apache**, tomcat and Provisioning new Environments.
* 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.
* Installation and configuration of J2EE applications (ears/war/jars) on Application Servers using automated deployment scripts in github called via Jenkins pipelines.
* Create and maintain fully automated CI/CD pipelines for code and infrastructure deployments.
* 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.
* Write **Terraform** modules for infrastructure as code for automated provisioning and repetitive tasks for various components in AWS cloud platform.
* 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
* 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.**
* Automated SW installation and deployments to multiple environments using Ansible roles and playbooks.
* 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.
* Configured **F5** service pools, pool members, VIPs, Health monitors etc, Implement Custom health monitors, configure session management and various types of profiles.
* Created AWS Code Pipeline using CloudFormation templates and integrate GitHub to automate Deployments in Dev and Test Environments
* Implemented a production ready, load balanced, HA **and fault tolerant Kubernetes**infrastructure.

**Client: Vanguard, Malvern, PA May'16 – June'18**

**Role**: Middleware/DevOps Engineer

**Responsibilities:**

* Installation, Configuration, Administration of **Apache**, **WAS**, tomcat, **JBoss** and Provisioning new Environments and clustering, set up new configurations for JDBC providers, DataSources, connection pools, Connection factory settings, Virtual hosts etc.
* 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.
* 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.
* Installed JON Agent, TWS Agent and Splunk forwarder on all JBoss, Oracle and Marklogic VMs. Installed and Configured AMQ 6.1.0
* Performance tuning, generation of heap, thread and tcp dumps for analysis. And tuning of heap values, assisting performance and stress test and suggest necessary code changes to the application team

**Client: Wells Fargo NA, Chandler, AZ Aug’14 – May' 16**

**Role**: Middleware Engineer

**Responsibilities:**

* 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.
* Installing Autosys agent on Nodes and Monitor, Control schedule Jobs, set up alerts from **Autosys WCC**.
* 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.
* 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.
* 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.
* Responsible for monitoring the Wily alerts in High Availability severs in all QA and Production Environments.
* 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 upgrades and fix packs to the runtime environment as required decreasing vulnerability to production environment.
* Installed **Layer 7 XML Gateways** V7.3.1 for authentication and authorization of incoming and outgoing web service requests.
* Adding policies to Service Active policies list, Delete/Disable Active Assertions and Validate/Export/Import policies, Publish **SOAP web service** and Import/Add/Edit XML Schemas from Layer7 Policy Manager.
* Responsible for troubleshooting networking issues, opening tickets for DNS changes, firewall requests.
* Provided 24/7 pager support and worked with IBM L2 support on PMRs in complicated issue resolution.

**Client: QSS Inc, Columbia, MD July13 – 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.
* Worked on WebSphere Edge components like WebSphere Edge caching proxy and WebSphere Edge load balancer (Network Dispatcher).
* 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
* Installed F5s (Licensed and established Device trust). Configured service pools, pool members, VIPs, Health monitors etc.
* Troubleshot Stale Mount Point issues, JBoss start up errors, UID-GID conflict issues while Mounting, CPU Utilization and disk space alerts, hot fixes post production etc.

**Client: Wells Fargo NA, Chandler, AZ Nov’11 – June13**

**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.
* Responsible for troubleshooting networking issues, opening tickets for DNS changes, firewall requests.
* Responsible for monitoring the Wily alerts in HA servers in all TEST and Prod environments.
* 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

Bachelor of Technology in Electronics and Communications – JNT University: 2007