**Manoj Kavali** 

**Senior Middleware/SRE Engineer**

**EXPERIENCE SUMMARY:**

* **13+ years** of experience as a **Senior Middleware/SRE Engineer** for automating, building, releasing and configuring changes from one environment to another environment.
* Experience in using version controller tools like **Subversion (SVN), GIT.**
* Extensively worked on **Hudson, Jenkins and Team City** for continuous integration and for End-to-End automation for all build and deployments.
* In-depth understanding of the principles and best practices of **Software Configuration Management (SCM).**
* Ability to deploy the developed code in a WebSphere/WebLogic, Apache Tomcat/JBOSS, IIS.
* Experience in configuring **Relational Databases like Oracle and SQL Server** with the Application server.
* Performed configuration, deployment and support of cloud services like **Amazon Web Services.**
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as **Amazon Web Services.**
* Worked on **Ansible and Chef** for Continuous Integration and Continuous Deployments.
* Experience in working with various monitoring tools (Site scope, manage engine applications manager used by the monitoring team and configured the threshold values to variable parameters (threads, memory, server health, and garbage collection, Wily, Topaz)).
* Managed Amazon Web Services like **EC2**, S3 bucket, RDS, EBS, ELB, Auto-Scaling, AMI, IAM through AWS Console and API Integration with Puppet Code.
* Involved in **setting up JIRA** as defect tracking system and configured various workflows, customizations and plugins for the JIRA bug/issue tracker.
* Extensively used build utilities like **Maven, ANT,** for building of jar, war, bar and ear files.
* Deployed **Docker** Engines in Virtualized Platforms for containerization of multiple apps.
* Worked on Managed Monitoring Tools such as **Splunk and Nagios.**
* Extensive experience using **MAVEN** as build tool for the building of deployable artifacts from source code.

**Technical Skills:**

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| Operating Systems: | LINUX6/7(RHEL), Ubuntu, Centos6/7, Windows 2003/2008/2012 |
| Versioning Tools: | Tortoise SVN, GIT hub, Stash |
| Bug Tracking Tools: | JIRA |
| Packaging Technologies  | Install shield Admin Studio, Windows Installer Editor |
| Build Tools: | Jenkins, ANT, MAVEN, MS Build, Team City |
| Languages/Scripting | Perl scripting, Shell scripting, PowerShell scripting, SQL, Java/J2EE, Python, Ruby on Rails |
| Web Technologies: | Servlets, JDBC, JSP, HTML, JavaScript, XML |
| Web servers | WebLogic, WebSphere, Apache Tomcat, JBOSS, Nginx, IIS |
| Configuration Management tools | Puppet, Chef (12.2 & 12.4), Ansible |
| RDBMS | Oracle, SQL SERVER, MYSQL, DB2 |
| Architectural Experience  | AWS, Azure, Open stack |

**PROFESSIONAL EXPERIENCE**:

**JPMorgan Chase, Dallas, TX Oct 2019 – At Present**

**Senior Middleware/SRE Engineer**

**Responsibilities:**

* Developed and implemented an automated Linux infrastructure using **Ansible.**
* Used **Terraform** as Infrastructure as code (Iac) for spinning virtual machines on AWS.
* Responsible for installing **IBM** **WebSphere Application server 8.5./9.0** as well as IBM HTTP Server on Development to Production environments for all major applications.
* Written **Shell** scripts to automate CI/CD process for pushing binaries in **S3 Bucket.**
* Worked on setting up Tomcat on Kubernetes environment.
* Worked on setting up automated WebSphere environment using AAAS Ansible
* Developed Python scripts using the BOTO SDK for efficient AWS resource management through API calls, complemented by hands-on experience with AWS CLI.
* Administered and managed critical **AWS** services (EC2, VPC, S3, ELB, Route 53, and ASG) to optimize our Apache CI/CD pipeline.
* Designed a solution for deploying Tomcat applications, integrating Splunk for logging, and incorporating Dynatrace for monitoring within the internal PCF Kubernetes environment.
* **SSL certificate renewals and resolve** server middleware vulnerabilities.
* Doing the deployments in DEV and Staging env and also assisting the deployment related issues from DEV to PROD env and also troubleshooting the issues irrespective of all env’s and also working very closely with various teams based on the issues from DEV to PROD env.
* Installing **IBM Http Server and WebSphere Plug-in** and configuring the same with WebSphere Application Server
* Managed Security and Performance optimizations for IBM WebSphere Application Server, IBM HTTP Server and Apache Web Server.
* Configured **IBM HTTP Server** with SSL for communication between Plug-in and Application Server.
* Making configuration changes like changing virtual host, jndi names, JDBC username/password (**J2C alias**), setting environment variables like log location enabling Verbose GC, changing the Heap sizes based on the requirements from lower env to higher env’s.
* Involved in Federating the Nodes with Deployment Manager (dmgr).
* Develop and maintain configuration manuals, procedure manuals and standards for WebSphere & IBM HTTP Servers.
* Worked on installation/administration and configuration of **IBM WebSphere Portal Server**
* Worked on **JBOSS** POC implementation.
* Configured Splunk to one of JPMC internal product SCLM.
* Configured Dynatrace to one of JPMC internal product GWP.
* Managing and Monitoring the JVM performance by WebSphere Heap Size, garbage collection, JDBC Pools, Thread pool Responsible for Architectural Design, Implementation and periodic testing and support of Web Environments with respect to High Availability and Disaster Recovery.
* Configured IBM HTTP Server with SSL for communication between Plug-in and Application Server.
* Involved in assisting Application development team in Load and Integration testing of J2EE applications on WebSphere Application Server.
* Troubleshoot problems on the various environments involving the integrations of WebSphere and IBM HTTP Server.
* Built Apache, Janus and SiteMinder also pushed the binaries to S3 Bucket.
* Provided load/stress, Performance testing and troubleshooting on issues such as Out of Memory, 100% CPU Usage, hung Thread sessions, session replication, JVM Crashes for WebSphere App Server.
* Integrating Jenkins with docker for web pipeline automation.
* Secure the administrative tools for WebSphere Application Server, analyze performance of J2EE applications running in WebSphere, Application Server Address performance issues of J2EE applications.

**Environment**: - WebSphere 8.5/9.0, Apache Tomcat 8.5/9.0, Apache 2.4.57, JBOSS, Docker, Jenkins, RHEL 6/7, AWS, Linux 6/7/8, Windows Server 2016, Python, Ruby, Docker, Kubernetes, Ansible, Splunk, Dynatrace.

**C-Vision Inc., Lansing, MI June 2017 – Sep 2019**

**Client: - State of Michigan (MDHHS)**

**Senior Middleware/SRE Engineer**

**Responsibilities:**

* Deployed **Java/J2EE** applications **JBOSS** servers.
* Responsible for web services, **SSL** certificates, web server security, and server configurations of web applications.
* Written **Shell** scripts for automated deployment of Java code in **JBOSS** servers
* Worked on container-based technologies like **OpenShift**.
* Install and configured **Tableau** on Windows 2016 servers.
* Used **Ansible** to automate services & Applications.
* Installed Client certificates and Intermediate certificates on different web servers.
* Worked on **JBoss EAP6** for troubleshooting most important tasks and issues which were in the team for long time.
* Migrating manual deployments to an automated **CI/CD** build and deployment process by using **Jenkins and IBM uDeploy.**
* Build code using tools like **MAVEN**, **Sonar, uDeploy** and move code from one environment to another environment.
* Deployed **.Net** applications on IIS servers.
* Used monitoring tools like **Dynatrace**.
* Install and configured **Docker** setup for MDHHS applications.
* Participated in 24/7 ON-Call rotations, **troubleshooted** lot of issues to help State of Michigan Department of Health and Human Services customers.
* Migrated some audited and compliance certified on-premises servers to **Azure Gov Cloud**.

**Environment**: - JBOSS, IIS 8.5, Docker, Jenkins, RHEL 6/7, Windows servers 2008/2012, Python, Ruby, Docker, uDeploy, Ansible, OpenShift

**C-Vision Inc., Philadelphia, PA August 2016 – May 2017**

**Client: - NBME**

**Senior Middleware/SRE Engineer**

**Responsibilities:**

* Creating the automated **build and deployment process** for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Implementing new projects builds framework using **Jenkins & maven** as build framework tools.
* Build and Deployed **Java code** to **WebLogic** servers in an Agile continuous integration environment and automated the whole process.
* Used **Puppet** to automate Configuration management & Applications.
* Gave full length Participation in Team discussions, new ideas implementations for the growth of the team.
* Wrote Python Script for automating WebLogic deployment using **Bamboo**.
* On boarded several application logs to **Splunk** for continuous monitoring of error and performance issues
* Involved in editing the existing **ANT/MAVEN** files in case of errors or changes in the project requirements.
* Experienced in setting up Continuous Integration environment using Jenkins**,** Nexus
* Administration and support of **JIRA**, Confluence, and related plug-ins and products.
* Enhanced Configuration Management using (**PUPPET**) to assist with automated, repeatable, and consist of configuration and application deployments, treating infrastructure-as-code**.**
* Involved as a **Splunk** Admin in capturing, analyzing and monitoring front end and middle ware applications Logs.
* Wrote MSBUILD scripts for building and deploying .Net code from **SVN** to the Production servers.
* **Troubleshoot** the build issue during the Jenkins build process.

**Environment**: - Weblogic10c, IIS, RHEL 6/7, Puppet, Jenkins, Eclipse IDE, Python, Ruby, Ansible

**C-Vision Inc., Boulder, CO April 2015 – July 2016**

**Client: - S&P Global**

**Senior Middleware/SRE Engineer**

**Responsibilities:**

* Worked on Managed Monitoring Tools such as **Splunk and Nagios.**
* Installed Client certificates and Intermediate certificates on different web servers.
* Deployed applications using **Jenkins**, **Team City** and **GitHub**.
* Install, configure and update **Jira** for enterprise level usage.
* Deployed **Java** applications to **JBOSS servers** in an agile continuous integration environment and automated the whole process.
* Worked on **F5-BigIP** for load balancing the servers by taking them out of service and keeping them in service depending on the requirements.
* Gave full length Participation in Team discussions, new ideas implementations for the growth of the team.
* Worked on **ITIL** process like change management and incident management.
* Participated in 24/7 ON-Call rotations, **troubleshooting** lot of issues during that time to help Markit on Demand customers.
* Written **Shell scripts** to apply the Integration label to all the files, which needs manual labelling of files.
* Deployed Puppet, Puppet Dashboard and Puppet DB for configuration management to existing infrastructure.

**Environment**: - JBOSS EAP 7, AWS, Docker, Puppet, Chef. TeamCity, Jenkins, Windows Server 2008 r2/2012, Linux, Python, Ruby on Rails, Node.js, Ansible.

**JPMorgan Chase, Chicago, IL Dec 2012 – March 2015**

**Senior Middleware/SRE Engineer**

**Responsibilities:**

* Configured and Installed **IBM WebSphere Application Server**.
* Configured **SSO** and deployed application on **IBM WebSphere Application Server.**
* Installed **Chef** Enterprise On-Premises/WorkStation/ Bootstrapped the Nodes using Knife.
* Responsible for installing **WebSphere Application server 8.5/9.0** for Dev and test environments.
* Responsible for installing WebSphere Application server 8.5.0.0 for Dev and test environments.
* Involved in applying fix packs 8.5.0.2 on **WAS** servers.
* Configured LDAP (Federated Repository) for Test environment.
* Expert in WebSphere Application Server (WAS) 8.5/8.0/7.x/6.x installation, configuration and management.
* Creating the Problem Management Record (PMR) with IBM, Updating fixing the unresolved bugs or issues.
* Installed and configured WebLogicon **Linux** servers.
* Written code in **Ansible** for automation of VM’s and Webservers.
* Installed and configured **Tomcat** Servers on Windows and Linux Servers.
* Worked extensively on many projects internally.
* Worked on automating WebLogic tasks using WLST scripting.
* Worked on Monitoring systems like **Wily, Topaz**.
* Resolved some service center Tickets.
* Setup **Load Balancer’s** for many applications using CSS and GSS load balancer requests.
* Deployed .NET applications on IIS 7.5 and IIS 8.0 servers
* Installed **Jenkins/Plugins** for GIT Repository, Setup SCM Polling for Immediate Build with **Maven** and Maven Repository (**Nexus Artifact**) and Deployed Apps using custom ruby modules through Puppet as a CI/CD Process.
* Worked on **Firewall** for servers located in DMZ.
* Worked on Cisco and **F5 BIG IP** Load balancers.
* Supported Continuous Deployment model orchestrated by **Jenkins** and **IBM uDeploy.**
* Worked on **PowerShell** Scripting for Installation, Deployments and Automation
* Worked on **Website monitoring** using tools like Tivoli.
* Involved in debugging database performance issues and CPU utilization.
* Debugged IIS issues like memory leakage, security issues, and IIS logs using **Log Parser** tool.
* Installed and Configured **Apache Tomcat** on **Linux** servers.
* Automated log rotation of tomcat logs using **shell** Scripting.
* Worked on configuring SQL database connections on **Windows 2008 Servers** so that it can connect to database server.
* Installed and Configured **SiteMinder (Single Sign on)** on **IIS, Apache, IHS** servers.
* Installed and Configured **SSL** certs on **IIS, Apache** Server.
* Installed and Configured **Wily** on **IIS, Apache** servers.

**Environment**: - Apache Tomcat 6/7, IBM WebSphere 7/8, WebLogic 10c, IIS 7.5, Windows Server 2003/2008 R2/2012, SQL Server 2008/2005, Wily, SSL, SSO, NDM, Linux, F5BigIP, Linux, DNS, PowerShell, WLST

**C-Vision Inc., Columbus, OH June 2011 – Nov 2012**

**Client: - JPMorgan Chase**

**Senior Middleware/SRE Engineer**

**Responsibilities:**

* Installed and configured **Tomcat** Servers on Windows and Linux Servers.
* Installed and configured WebLogi**c** on **Linux** servers
* Worked on Monitoring systems like **Wily, Topaz**.
* Configured and Installed **IBM WebSphere Application Server**.
* Configured **SSO** and deployed application on **IBM WebSphere Application Server.**
* Responsible for **WebSphere Application server 8.5** as well as IBM HTTP Server Administration on AIX 5.2/5.3.
* Managing and Monitoring the JVM performance by WebSphere Heap Size, garbage collection, JDBC Pools Responsible for Architectural Design, Implementation and periodic testing and support of Web Environments with respect to High Availability and Disaster Recovery.
* Package, build, Integrate and deploy enterprise J2EE applications on Web Sphere 8.5 that involves EAR (Enterprise Archives) and WAR (Web Archives) using deployment scripts as well as Admin console.
* Involved in applying fix packs on WAS and HTTP servers.
* Involved in working on Incident management to solve various issue related to the environment.
* Involved in configuring the WebSphere load balancing using WebSphere workload management like horizontal cloning and vertical cloning.
* Configured WebSphere resources like JDBC providers, JDBC data sources, connection pooling and Java Mail sessions.
* Troubleshoot problems on the various environments involving the integrations of WebSphere and IBM HTTP Server
* Well versed in Workload management (WLM), clustering and Configuration of web application.
* Provided 24/7 support for systems and resolved most critical tickets.
* Worked on setting up local and global **Load Balancing**.
* Troubleshooted the performance issues on **IIS.**
* Installed and Configured **SiteMinder (Single Sign on)** on **IIS, Apache** servers.
* Installed and Configured **SSL** certs on **IIS, Apache** Server.
* Setup **Load Balancer’s** for many applications using CSS and GSS load balancer requests.

**Environment**: WebSphere 7/8, Apache Tomcat 7/8, IIS 7.5, Apache 2.4.39, Wily, SSL, SSO, NDM, Linux, F5 Big IP, Linux, DNS, SQLProfiler, .NET, PowerShell.

**C-Vision Inc., Santa Clara, CA Jan 2011 – May 2011**

**Client: - Nvidia**

**Senior Middleware/SRE Engineer**

**Responsibilities:**

* Planning, Design, Installation and Integration of **WebSphere Application Server** Network Deployment 6.x/5.x, IBM Http Server 6.x/1.x and Apache 2.x on Linux.
* Worked as **Release Engineer** that involved with different development teams which has multiple simultaneous software releases and implemented Continuous Integration Process.
* Installed and configured **Tomcat** Servers on Linux Servers
* Involved in editing the existing **ANT/MAVEN** files in case of errors or changes in the project requirements.
* Imported and managed multiple corporate applications into Subversion (SVN).
* Worked on F5-BigIP for load balancing the servers by taking them out of service and keeping them in service depending on the requirements.
* Involved in raising tickets to Microsoft for any issues in their products and worked with them for problem solving.
* Installing, configuring and managing **VMware** machines in web farms.
* Configured monitoring for CPU, memory, physical disk, Hardware and Software **RAID**, file systems, network using **NAGIOS** monitoring.
* Maintained the applications among run-time processes in a cluster of application servers.
* Created users, roles and groups for securing the resources using local operating system authentication.

**Environment**: WebSphere 7, Apache Tomcat 6, Shell, Windows Server 2003/2008, IBM WebSphere AppServer 6/7, F5 Big IP, XML, Win2K, DNS, VMware.

**Refulgent Inc., Redmond, WA May 2010 –Dec 2010**

**Client: - Microsoft**

**Web Engineer**

**Responsibilities:**

* Worked on **PowerShell** scripts to automate deployments Windows Virtual Machines.
* Build the source code using **ANT** build tool and deploy the applications into **IBM** **WebSphere** **application servers**.
* Installing IBM Http Server and WebSphere Plug-in and configuring the same with WebSphere Application Server
* Configured directory structure in IIS and installed Application server plug-in in IIS.
* Deploying EAR files onto CLUSTERS using Administrative Console and using Build Forge for automated deployments for **IBM WebSphere Application Server**.
* Worked with Load balancing/networking team to configure IIS clusters.
* Configured hardware load balancers and software load balancers like NLB and F5 Big IP.
* Used the **SCOM** monitoring tool to know all the server’s health and alerts.
* Configured hardware load balancers and software load balancers like F5 Big IP.
* Responsible for debugging SQL performance issues, Good experience in using SQLProfiler tool
* Creation of **SSL** and Digital Certificates for requesting, generating and implementation for the communication between Web server and the Application Server.
* Installing, configuring and managing **Hyper-V** machines in web farms.
* Installed .net framework on windows platform and configured the development environment.
* Logs file analysis for troubleshooting to resolve issues.
* Involvement with the customer care and deployment teams in trouble shooting and fixing day-to-day problems of the applications in production on 24/7 schedule.
* Provided support for teams in activities such as Load testing, troubleshooting, and performance tuning.
* Supported **on call schedule** for **Production support**.
* Configured Data base-connectivity parameters in configuration files using SQL queries.
* Involved in trouble shooting and fixing day-to-day problems of the applications in production.

**Environment**: - IBM WebSphere AppServer 6.1/5.1, IIS 7.5, Windows Server 2003/2008, SQL Server 2008/2005, F5-BigIP, Ant1.5.1, Win2K, DNS, ASI, SCCM, Hyper-V, SCVMM, SQLProfiler, SCOM.

**CERTIFICATION**

**Certified Kubernetes Administrator (CKAD)**

**Certified AWS Cloud Practitioner**

**Education**

**Master’s degree, University of South Alabama -2008**