**Raja Pentyala**

[rajapentyala@outlook.com](mailto:rajapentyala@outlook.com)

**(678)-954-3129**

**DevOps Engineer**

**Objective:**

Experience in implementing **DevOps** cloud strategy based on AWS (Amazon Web Services), which includes Software Configuration Management, Build/Release Management, Continuous Integration and Continuous Delivery using different tools and finest knowledge and hand full of experience on **IBM Middleware Products like** **WebSphere Application Server, WebSphere MQ, WebSphere Portal**. **On the other hand**, As a java developer with java professional background enhances my knowledge on **Infrastructure** and **Development** point of view. Which helps me to solve many real-time issues, in more efficient way.

**Certifications:**

* **AWS Certified Solution Architect-Associate**

**Validation Number:** XM8E4WX1CBQ110

**Validate at**: <https://aw.certmetrics.com/amazon/public/verification.aspx>

* **Oracle Certified Professional,** Java SE 8 Programmer.

<https://www.youracclaim.com/badges/ea8cc5b8-2e60-4f01-99b5-dcf14b213fe5/public_url>

* **Oracle Certified Associate**, Java SE 8 Programmer.

<https://www.youracclaim.com/go/8NBhNQ7LGsONW8tPyvfEKA>

**Summary:**

* **Over 6+ years** of experience as a **DevOps Engineer** and **IBM WebSphere Application Server** (WAS) Administration and strong knowledge of WebSphere product family and its architecture and as a **Java Developer**.
* In depth understanding of the principles and best practices of software configuration management (SCM) in **Agile, Scrum and Waterfall** methodologies.
* As a passionate on AWS, Involved in migration of one Business from a physical data center environment to **AWS**. Designed, built, and deployed a multitude application utilizing almost all of the AWS stack (Including **EC2, R53, S3, RDS, SQS, IAM, EIP, EBS, VPC),** focusing on **high-availability**, **fault tolerance**, and auto-scaling with Cloud watch monitoring.
* Managing **GIT** and **SVN** which includes creating new users and writing some pre-commit and post commit scripts**.**
* Hands on **TFS** (**Team Foundation Server**) based build system.
* Good knowledge on using **Artifact Repository** for Maven and Ant builds.
* Extensive experience in using **MAVEN** and **ANT** as build tools for building of deploy-able artifacts (jar, war & ear) from source code**.**
* **Used Ansible** and other configuration management tools to deploy consistent infrastructure code across multiple environments.
* Experience writing **Ansible Playbooks** to automate the deployment process and to integrating Chef Cookbooks into Jenkins jobs for a continuous delivery framework.
* Knowledge of databases like **MySQL, MS SQL, PostgreSQL, Oracle and IBM DB2**.
* Good knowledge on networking concepts like **routers, switches, DHCP, DNS, OSI layers, TCP/IP protocols.**
* Experience in working with **AWS Cloud computing** and involved in creating AWS instances and deployed Linux and **RedHat** on **AWS** environment and Expertise in migrating applications onto AWS.
* Handled the issues in all areas of **WebSphere Application Server 8.5/7.0, WebSphere MQ 8.X/7.X, WebSphere servers,** on distributed platforms like AIX, Red Hat Linux, Windows Server Environments including installation, applying patches/fix packs, installing certificates, Troubleshooting, application deployment, work load management, clustering, plug-in generation/propagation, web servers and migration.
* Maintained the overall **Urban code deploy** architecture, that includes setting up deployment process, setting up user accounts, maintaining **Udeploy** which includes setting up virtual machines and maintaining the user access across the organization.
* Hands on **monitoring and alerting** services for servers using **NAGIOS**.
* Worked on **configuration management, change Mgmt., Incident Mgmt., problem Mgmt. and release event Mgmt**., to integrate existing IT services and components.
* Knowledge on **open stack** and **Docker**.
* Hands on using **Bug tracking tools** like **JIRA, HP Quality center and Bugzilla**.
* Proficiency in deployment automation and scripting using **uDeploy, Jenkins, Shell script and AWK**
* Complete life cycle of Web servers like **IHS 7.0,8.X, and Apache Web Server** on all Operation System environments.
* Extensive experience of working with release and deployment of large scale and Enterprise applications and **DevOps**.
* Expertise in **UNIX Shell JACL, Python** and **Perl** scripting for administration, maintenance, and installation of applications.
* Expertise in Install, Configure, administration of **IBM WebSphere MQ Series Resources- Queue/Queue Manager**, Channel, Listener Port management and administration of MQ.
* Good at troubleshooting using **Traces, Logs, and Log Analyzer** and experienced in analyzing thread, heap and core dumps using IBM Support Assistant (ISA) 4.1.
* Extensively worked on third party products like **Wily Introscope** and **ITCAM** to integrate with existing enterprise applications.
* Designed and managed public/private cloud infrastructures using **Amazon Web Services(AWS)** which include **EC2, S3, Cloud Front, Elastic File System, RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Trail, Cloud Formation**, and IAM which allowed automated operations.
* Perform Root-cause Analysis post issues and provide suggestions to application team to **avoid similar production issues in future**.
* Hands on experience in upgrade open **SSL** to support **TLS1.2** on both WebSphere Application Server and WMQ for PCI compliance.
* Experience in configuring **SSL** for web servers, requesting and installing secure certificates, enabling global security using **LDAP** registry and single sign on.
* Extensively worked on **migrating applications** from different versions of WebSphere Application Server (**7.0 to 8.5**).
* Working with multiple project teams as well as being responsible for WebSphere Administration, configuration, load balancing, performance tuning, **Disaster Recovery** and **High Availability**.
* Highly motivated to learn new developments in technology with strong analytical Problem-Solving skills and a flair for creativity. Worked closely with Project manager, development, testing, and production team to align project deliverables, dates and report issues/concerns.
* Experience in following support procedures, receiving live calls from customers and taking 24x7 on-call shifts and Opened PMRs with IBM to resolve mission critical problems.
* Ability to communicate requirements effectively to team members and work in the onshore-offshore model.
* **Used Chef** and other configuration management tools to deploy consistent infrastructure code across multiple environments.
* Coordinated **different teams across the globe to deploy different build** to different environments on parallel development for multiple projects.

**Technical Skills:**

|  |  |
| --- | --- |
| Software | IBM WebSphere Application Server 8.5/7.0/6.1, WMQ 8.0/7.X/6.0**,** WebSphere Portal Server 8.0/6.1, IBM HTTP Server 8.5/7.0/6.1, Apache 2.2, BigIP (F5), Tivoli Performance Viewer, Log Analyzer, Core Dump Analyzer. |
| Operating System | AIX, Linux, Red Hat Linux and Windows. |
| Scripting | JACL, Jython, ANT, JavaScript and Shell script, AWK Script. |
| Languages | J2EE, Unix, SQL, PL/SQL, VB, HTML. |
| Databases | DB2 10.1/9.5/8.x, Oracle 9i/10g/11g and SQL Server 2005/2000 |
| Java/J2EE/Web Technologies | HTML, DHTML, XML, J2EE, JDBC, Servlets, JSP, Java Beans, RMI, EJB, JNDI, JMS. |
| Tools | Jenkins, GIT, PowerPoint, Word, Access, Outlook, Excel, VISIO, Active directory 2003, TDS 5.2. |
| Version Control | GIT, GITHUB, SVN (Sub Version) & TFS, Bit bucket |
| UNIX Tools | WinSCP, Putty, FTP, SSH, FileZilla. |
| Monitoring Tools | Dynatrace, Splunk, Wily, Foglight, BSM, ITCAM, Cloud watch, Cloud trail |
| AWS Cloud | EC2, Route53, S3, RDS(MySQL), SQS, IAM, EIP, EBS, VPC. |

**WORK EXPERIENCE**

**Cox, Atlanta, GA**

**DevOps Engineer July’16 – Till Date**

*Highlights:*

* Managing **GIT** and **SVN** which includes creating new users and writing some pre-commit and post commit scripts**.**
* Hands on **TFS** (**Team Foundation Server**) based build system.
* Good knowledge on using **Artifact Repository** for Maven and Ant builds.
* Extensive experience in using **MAVEN** and **ANT** as build tools for building of deploy-able artifacts (jar, war & ear) from source code**.**
* Architected, Implemented and Documented centralized deployment automation for WebSphere Application server. Improved around **60% of deployment time** and provided access to various teams around the world to perform around 80 deployments per day. This saved about 3 manpower’s. Used **ANT**, **Jython**, **XML**, **XSLT** and HTML and **Jenkins.**
* Architected and Implemented **Near Zero Down time environment in AWS**. Within 3 min SLA downtime; the system will be available to end users with new version of the code.
* Migrated nonproduction environments from on-premises to AWS cloud by using the Cloud Formation Templates(JSON), Jython, Ansible and Shell scripting. Automated deployment environment registration by making REST API call to Jenkins.
* Implemented WSRP technology to separation of functional modules and to **save licensing cost**. Converted the XML access template from non-wsrp to wsrp by writing xml code.
* Identified unused/less-used disks to resolve IO issue and response time issues in production. This **improved response time** by eliminating IO issues in production.
* Created **MQ multi instance** cluster by using EFS in **AWS** environment and implemented the same by using the GPFS in on-premises prod environment.
* Shared file system by using the s3 to share the files between the WAS and MZ (Mediazation Zone)
* Proposed and implemented Core group separations in prod which reduced around **100K TCP connections.**
* Install, configure, maintain, upgrade, patch management, troubleshoot, repair and support **WebSphere Application Servers 8.5/7.0, IBM HTTP Server 8.5/7.0 on Solaris, AIX and Windows platforms**.
* Install, configure, maintain, upgrade, patch management, troubleshoot, repair, and support Web Servers.
* Install, configure, maintain, troubleshoot, repair and support **Wily** on a variety of Application Servers and Web Servers like WebSphere Application Servers, IBM HTTP Servers.
* Create and configure standard dashboard to monitor application availability, page response times, script bottlenecks, CPU, memory utilization across web pages, etc. using Dynatrace and Wily Introscope.
* Extensively involved in the **migration** of applications from WebSphere 7.0 to 8.5.
* Involved in the WebSphere automation tasks like creating build scripts and deployment scripts using **Shell, JACL and Jython scripts**.
* Involved in securing the applications and creation of **Security Domains** in WebSphere Application Server. Also involved in the setup of **SSL** secure connection between the VW App Servers and the FedEx back end servers.
* Experienced in AWS EC2 setting up instance, virtual private cloud (VPC’S) and security groups and security groups
* Setting up the Databases in AWS by using RDS, storage using S3 bucket and configuring instance backups to S3
* Extensively involved in tuning of the JVMs through connection pool settings, process definition and Web container settings.
* Involved in the troubleshooting JVM resources and hung threads using heap dump, thread dump and **ISA 4.1** (IBM Support Assistant).
* Participate in on-call rotation supporting 24x7 according to established SLA guidelines.

**Environment:** Chef/Ansible, Jenkins, AWS, S3, Autoscaling, EBS, RDS, Cloud sigma, SVN, ANT, Jenkins, LAMP, Anthill Pro, Maven, Apache Tomcat, Shell, Perl, Nexus, AWS, EC2, Junit, Python, WebSphere Application Server 8.5/7.0, IBM HTTP Server 8.5/7.0, Tomcat 4.0, AIX 6.1, Shell Scripting, JACL and Jython, BIG IP (F5), ANT, DB2 10.1/9.5, Oracle 11g/10g, EC2, Route53, S3, RDS(MySQL), SQS, IAM, EIP, EBS, VPC.

###### 

**Xerox, Atlanta, GA**

**Middleware Administrator/DevOps Engineer Jan’16– June’16**

**Responsibilities:**

* Automated the cloud deployments using chef, python and AWS Cloud Formation Templates.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes, and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/ Packages using Chef as well as AWS for EC2/S3&amp; ELB with Chef Cookbooks.
* Create Chef Automation tools and builds, and do an overall process improvement to any manual processes.
* Written Chef Cookbooks for various DB configurations to modularize and optimize product configuration. Worked with various features like High Availability and Failover of different applications.
* Responsible for creation of stop/start/monitor scripts that work with TSA to automate the failover of the NDM/Dmgr.
* Migrated service from a managed hosting environment to AWS including: service design, network layout, HIPAA compliance, data migration, automation, monitoring, deployments and cutover, documentation, overall plan, cost analysis, and timeline.
* Primary duties include Build and Deployment of the java applications onto different environments DEV/IT, UAT, Production and DR environment of Linux Servers.
* Worked closely with the development and operations organizations to implement the necessary tools and process to support the automation of builds, deployments, testing and infrastructure (infrastructure as code) using puppet.
* configured, and supported Puppet to standardize environments.
* Worked on Puppet extensively for deployment of AWS EC2 instances, creating custom scripts and managing changes through Puppet master server on its clients.
* Configured WebSphere resources like JDBC providers, Data sources, connection pooling
* Created node groups and clusters using WebSphere Application server ND.
* Involved in Installation and Deployment of Enterprise Applications in a clustered environment with fail over support with the interaction of the different enterprise teams.
* Took the Java core dumps to analyze runtime issues with the development team.
* Used ‘cron’ and ‘at’ job scheduling utilities for automatic application install, uninstall and application enhancements.
* Set up preconfigured RHEL5.x and 6.x on local and in the cloud on AWS EC2.
* Provisioning of RHEL5.x/6.x servers via AWS cloud.
* Configuration, management and maintenance of the servers in development, test and production servers.
* Worked on Puppet Configuration management tools.
* Create puppet modules to manage configurations and implemented them on agents.
* Created Puppet Modules to deploy, manage and maintain a large application of complex layers
* Worked with various DevOps tools: SVN and GIT for Version/Source control, Jenkins, Maven for Build Management, and Nagios for monitoring and Splunk for Log management.
* Extensively worked on migrating VMs from physical to virtual (P2V) environment.
* Switched Test environment to virtual from bare metal, and later worked on decommissioning and shutdown of legacy physical servers.
* Worked on Troubleshooting OS issues using system message logs, Web Services API, Apache Tomcat
* Developed and maintained wsadmin scripts using jython for various administrative tasks to run them at specified regular intervals using crontab.
* Performed automation of installation of patches, ifixes and fix packs using Build Scripts.
* Responsible for schedule and emergency software changes, problem determination and implementation of corrective measures.
* Developed Unix Shell scripts, JACL scripts to automate the WebSphere Administration (recycling the application server, deploying customer applications, logs rotation, monitor applications state, etc.)
* Involved in troubleshooting and performance tuning using Log Analyzer, Resource Analyzer and Tivoli Performance Viewer (TPV).
* Configured and extensively used the WebSphere security and authorization features.
* Involved in 24/7 On-call support of production servers.
* Setup/Managing Linux Servers on Amazon EC2, EBS, ELB, SSL, Security Groups, RDS and IAM.
* Good in Managing CDN on Amazon CloudFront (Origin Path: Server / S3) to improve site performance.
* Create/Managing buckets on S3 (CLI) and store db and logs backup, upload images for CDN serve.
* Experience with monitoring tools such as CloudWatch.

**Environment:** Chef/Ansible, Jenkins, AWS, S3, Autoscaling, EBS, RDS, Cloud sigma, SVN, ANT, Jenkins, LAMP, Anthill Pro, Maven, Apache Tomcat ,IBM WebSphere Application Server 7.0/6.1, WebSphere Application Server 6.0, AIX, Windows 2003, DB2 UDB, Oracle, SQL Server, Active Directory 2003, Clear Case, ANT, Shell Scripts, XML, UNIX, Build Forge, Jenkins, bash, Puppet, AWS, MySQL and NoSQL.

**Valuelabs, Bangalore, INDIA**

**WebSphere Application Server Administrator Oct’11 – Sep’12**

**Responsibilities:**

* **Installed, Configured, Maintained, Tuned** and Supported WebSphere Application Server 7.0/6.1.
* Administer a complex cluster based load balanced WebSphere Application Server and WebSphere Portal Server environment
* Deployed, Installed and Maintained several Enterprise Applications in a clustered environment.
* Designed, Configured and Maintained Big-IP (F5) configurations for all WAS applications.
* Experienced in installing, configuring, tuning, deploying, troubleshooting WebSphere applications. (More than 60 web apps running on WAS servers).
* Implemented high available HA DMGR in one of the prod regions.
* Deployed WAR files on a portal cluster using XML access script.
* Actively involved in monitoring server performance, network traffic to reduce performance bottlenecks.
* Configured the web server interfaces, session management, virtual hosts and transports for WebSphere apps.
* Provided various techniques to Architects and Project Managers in designing E-Business system with features like high-availability, disaster recovery, and application fail-over.
* Worked with product vendors for resolving issues and problems related to products.
* Successfully Migrated WebSphere Application Servers from 6.1 to 7.0.
* Designed, configured and maintained automatic build and deploy (ANT, JACL, Shell Scripting) process for WAS6.1 on Dev and Prod servers and we are using automation process to promote the code changes.
* Experienced in installing Update Installer and applied 6.0.2.25 and 6.1.0.9/6.1.0.15 patches for WebSphere application server 6.1
* Supported Dev, Test, Training and production environments for WAS7/6 environments.
* Implemented LDAP security on WAS using Windows 2003 Active Directory server and TDS.
* Configured WebSphere security using LDAP server to support multiple windows 2003 AD domain controllers. (Federated Repositories)
* Regularly coordinate with developers, network engineers, and security teams to improve the application availability and performance.
* Performing Troubleshooting by analyzing log files using the Log Analyzer tool and Splunk.
* Involved in designing WebSphere Application Server load balancing and fail over by using Workload Management (WLM) horizontal and vertical scaling.
* Provided support to migrate the applications from WAS 6.1 to WAS7.0.

**Environment:** IBM WebSphere Application Server 7.0/6.1, AIX, Windows 2003, DB2 UDB, Oracle, SQL Server, Active Directory 2003, TDS 5.2, IBM HTTP Server 6.x, Shell Scripting, JACL and Jython, BIG IP (F5), IIS 6.0/5.0, ANT.

**WebileApps, Hyderabad, INDIA**

**Programmer Analyst May’09– Oct ‘11**

**Responsibilities:**

* Involved in Analysis and Design of the project, which is based on **MVC** (Model View Controller) Architecture and Design patterns.
* Involved in developing prototypes of the product.
* Developed the application using **Struts** Framework that leverages classical Model View Controller **(MVC)** architecture.
* Developed Controller Servlets, Action and Form objects for process of interacting with **Oracle** database and retrieving dynamic data.
* Wrote custom support modules for upgrade implementation using **PL/SQL, UNIX** Shell scripts.
* Developed backend components, **DB** Scripts for the backend communication
* Used Apache **Log4j** logging **API** to log errors and messages.
* Involved in Documentation and use case design using **UML** modeling include development of Class diagrams, Sequence diagrams, and use case Transaction diagrams.
* Developed activity, sequence and class diagrams using Unified Modeling Language **(UML)** and Rational Rose.
* Developed **HTML** and **JSP** pages using **Struts.**
* Responsible for performance tuning of the product and eliminating memory leakages in the product.
* Participated in design and code review meetings with developers.
* Used **Junit** to perform unit testing.
* Used **Eclipse** tool for application development.
* Used Configuration Management Tools for version control which is built on **CVS.**

**Environment**: Java, JSP, HTML, AJAX, XML, DOM, SAX, JNDI, Struts, DB, PL/SQL, UNIX Shell Scripting, Rational Rose, Apache Tomcat, Oracle, JUnit, Log4j, CVS, Eclipse.