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**Cloud Engineer/** **DevOps Engineer/Linux Administrator**

**PROFESSIONAL SUMMARY**

* **8+** years of experience in implementing, delivering, integrating, and maintaining infrastructure in **Linux/Windows** Environment. focusing on configuration, **Build and Release** engineering also **cloud** infrastructure with automation following **Agile methodology**.
* Experience in configuring various **AWS** services like **VPC, EC2, IAM, ELB, RDS, S3, SNS, SQS, Route 53, Lambda, CloudFront,** **CloudFormation** and **CloudWatch**.
* Experience in working with **EC2** plugin in **JENKINS** which automates the Jenkins master-slave configuration by creating temporary slaves. Configured **Splunk** alerts and created dashboards for monitoring.
* Implemented **EC2 backup** strategies by creating **EBS snapshots** and attaching.
* Experience with container systems like **Docker** and container orchestration like **EC2 Container Service**, **Kubernetes**, worked with **Terraform.**
* Managed **Docker orchestration and Docker containerization** using **Kubernetes.**
* Experience using **Kubernetes**to orchestrate the deployment, scaling and management of **Docker** Containers.
* Experienced in Implementing ‘**server less'** architecture using **API Gateway, Lambda, and Dynamo DB** integrated with AWS **Lambda code** from Amazon S3 buckets.
* Created a **Lambda Deployment function** and configured it to receive events from your **S3** bucket.
* Experience with designing and configuring secure **Virtual Private Cloud (VPC)**through private and public networks in **AWS** by creating various **subnets, routing table, Network ACL, NAT gateways**.
* Experience Implementing and setting up **Route 53** for AWS Instances.
* Designed and implemented **CI/CD** pipelined and automated solutions using tools like **Jenkins** and **bamboo** and build tools like **Maven/Ant** and storing artifacts in nexus repositories and hosting application using **Tomcat**/**Webservers.**
* Extensively worked on Jenkins for continuous integration, build and deployments for End-to-End automation for most of the build related tasks.
* Hands on experience with build tools like **Nexus Repository, Maven, Ant, and Gradle** & deploying **EAR, WAR, JAR** files on Dev, test, stage & production environment.
* Experience in working on source controller tools like Subversion (**SVN**), **GIT**, **TFS**, **GITHUB** and creating **web hooks** to automate build process when there is a code commit.
* Configured **Ansible** to trigger **Jenkins** Jobs to automate the creation of **Docker** images from successful Builds which is later used for Rolling deployments into the Kubernetes Cluster by defining the new Images in the Deployments and Pod definitions.
* Created and used **Ansible Playbooks** in **Ansible Tower** and integrated **Ansible tower** with **Jenkins** to deploy code to different servers.
* Experience in configuring **Chef Server/Workstation** and **bootstrapping Nodes**, Wrote **Chef Cookbooks** and **recipes** using **Ruby script**. Performed testing with **kitchen** and **unit testing**.
* Experience in using **Puppet** to automate repetitive tasks, quickly deploy critical applications, and proactively manage changes. Integrated Puppet with Jenkins to achieve the Continuous **Deployment**.
* Integrated **Jenkins** with **Nugget** Package manager and MSBuild to build .**Net** projects and deployed in to the IIS web server by making use PowerShell scripts.
* Experience in eliminating the dependencies issues in various environments by developing various Docker files to encapsulate the application and created **Docker** images which are stored in the AWS ECR (Elastic Container Registry) to be used in the **CI/CD** pipeline.
* Experience working on several Docker components like **Docker** Engine, Hub, Machine, Compose and Docker Registry.
* worked on **Docker** and **Kubernetes** on cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Expertise in configuring mod\_proxy/mod\_jk on **Tomcat** Clusters and configured vertical and horizontal clustering for High Availability and Workload management.
* Experience in installing, upgrading and configuring RedHat **Linux 5.x,6.x,7.x, CentOS 5.x/6.x/7.x,** Ubuntu, Debian, Fedora using **Kickstart Servers.**
* Developed various **Python**, Bash scripts to automate various Manual System Admin Tasks like creation of Groups, Users permission, Logical Volumes creation, System Validations, installing packages and dependencies.
* Migrated **Python** scripts to **Lambda** **Function** in **AWS** to reduce the cost, maintenance overhead for the scripts running in **AWS** **EC2**. Configured API gateway to create and endpoint which triggers the Lambda function based on the Post request from the Upstream Jobs.
* Expertise in installing, configuring and troubleshooting **SSL/TLS** and migrated the Web Server and application server **SSLV3** certificates to **TLS1.2**.
* Implementation and maintenance of Apache **HTTPD, SMTP, DHCP, NFS, NIS, LDAP, DNS, FTP**, Remote access, Security management and Security trouble shooting.
* Experience in Installation of **Splunk** **Enterprise**, **Splunk forwarded**, Splunk Indexer, Apps in multiple servers (Windows/Linux).
* Experience in installation, configuration and management of monitoring tools like **Zabbix, Nagios, Splunk** and logging tools like **ELK.**

**EDUCATION QUALIFICATION**

* **Bachelor’s in Computer Science from IIT-BHU University, Passed out in 2011**

**TECHNICAL SKILLS TECHNICAL SKILLS**

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|  **Operating Systems** | RHEL/CentOS 5/6.x/7.x, Ubuntu/Debian/Fedora, Solaris 7/8/9/10, Windows Server 2003/2008/2012 |
|  **Cloud technologies** | AWS, Azure, GCP,IBM Cloud, AWS EC2, AWS Rout53, AWS IAM, AWS ASG, AWS VPC, EBS, ALB, ELB, CloudFront, CloudTrail, AWS S3. |
| **Configuration Management** | Ansible, Chef, Puppet |
| **Scripting** | Bash, Perl, PowerShell, Python, Ruby, shell, YAML |
| **Build/Automation Tools** | ANT, Jenkins, Maven, Jenkins |
| **Databases** | Cassandra, MongoDB, MySQL, Oracle, PostgreSQL, AWS RDS, DynamoDB, S3. |
| **Web/Appserver** | Tomcat, WebLogic, WebSphere, AWS Lambda  |
| **Bug Tracking Tools** | Bugzilla, Jira |
| **Version Control Tools** | GIT, SVN, TFS |
| **Web Technologies** | Servlets, JDBC, JSP, XML, HTML, .Net, Java Script |
| **Containerization tools** | Docker, Kubernetes, Docker Swarm, AWS ECS, AWS EKS. |
| **Monitoring tools** | SPLUNK, CloudWatch, CloudTrail, Datadog, Nagios, Qradar |
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**PROFESSIONAL EXPERIENCE**

**AT&T, St Louis, MO. Jan 2017–current**

**Sr. Cloud/Devops Engineer**

* Worked on designing and deploying multitude applications using most of the **AWS** stack (like **EC2, Route53, S3 buckets, RDS, Dynamo DB, SNS, SQS, IAM, VPC, EBS**) focusing on high-availability, fault tolerance and auto-scaling.
* Expertise in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation including Amazon Web Services (**AWS**), **GitHub**, **Maven**, **Jenkins**, **Ansible**, **Apache**, **Nginx**, **Tomcat**, **Linux** etc.
* Delivered Solutions to improve Cloud architecture, deployment for **AWS private and Public Cloud and on-prem infrastructure**.
* Managed multiple **AWS accounts** with multiple **VPC's** for both production and non-prod where primary objectives included automation, build out, integration and cost control.
* Worked on automation and continuous integration processes with **Jenkins and Ansible**.
* Created and maintained documents of **build and release** processes and application configuration to comply with audit requirements and Industry best practices.
* Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Chef.
* Used EC2 as virtual servers to host Git, Jenkins and configuration management tool like Ansible. Converted slow and manual procedures to dynamic API generated procedures.
* Used IAM to create new accounts, roles and groups and polices and developed critical modules like generating amazon resource numbers and integration points with S3, Dynamo DB, RDS, Lambda and SQS Queue.
* Provided highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Created cloud watch dashboards for monitoring CPU utilization, Network In-Out, Packet In-Out and other parameters of the instances and notified them using SNS.
* Design **EC2** instance architecture to meet high availability application architecture and security parameters.
* Created **S3** buckets and also managed policies for **S3** buckets and Utilized **S3** bucket and **Glacier** for storage and backup on **AWS.**
* Creating **CloudWatch** alerts for instances and using them in Autoscaling launch configurations.
* Created new **Ansible** Playbooks and updated existing once to automate deployments.
* Managing amazon web services infrastructure with automation and configuration management tools such as **Ansible**.
* Involved in Installation, Configuration **of WebSphere Application server** though **DevOps tool Ansible**.
* Administered, monitored, and configured **Ansible**.
* Experience using build and release management tools like **Clearcase** and **Subversion**.
* Developed **Jython, Python, Ruby** scripts for synchronization of load test clients and parametrization with test data.
* Responsible for applying patches and fixes through **Roles in Ansible** to **WebSphere 6.x** to bring it up to date.
* Involved in process of **renewing** and **updating expired certificates** for **WebSEAL, TAM and LDAP** every cycle using **Ansible** playbooks.
* Analyzed the **current stack, load and cost** to brainstorm architecture in order to reduce the cost and improve operation efficiency.
* Automated application packaging and deployment through **CI**/**CD** tools like **Ansible** with **Jenkins**.
* Worked on integration and production AWS environments.
* Created password less authentication between **EC2 servers and On-prem servers**.
* Provided support for **AWS EC2,EBS,Trusted Adviser,S3,Cloud watch, Cloud front, IAM Security groups, Auto scaling AWS CLI and CloudWatch monitoring** creation and update.
* Configured **Splunk** alerts and created dashboards for monitoring.
* Proficient with container systems like **Docker** and container orchestration like **EC2 Container Service**, **Kubernetes**, worked with **Terraform.**
* Managed **Docker orchestration and Docker containerization** using **Kubernetes.**
* Used **Kubernetes**to orchestrate the deployment, scaling and management of Docker Containers.
* Troubleshooting and performance tuning of JVMs using Resource Analyzer and Log

**Centene- Saint Louis, MO Sep 2016– Jan 2017**

**Cloud/DevOps Engineer**

* Worked on designing and deploying multitude applications using most of the **AWS** stack (like **EC2, Route53, S3 buckets, RDS, Dynamo DB, SNS, SQS, IAM, VPC, EBS**) focusing on high-availability, fault tolerance and auto-scaling.
* Worked on migrating VMware to AWS using **snowball** and **VM import/export** by creating cutom AMI with all the installed services and requirements and attaching EBS volume**.**
* Created **S3 buckets** and managed policies and utilized **S3** bucket and **Glacier** for object storage and archiving, Automated the creation of **EBS** snapshots and stored them S3 buckets after encryption.
* Hands on experience on **Chef Enterprise**, installed workstation, bootstrapped nodes, wrote recipes and cookbooks and uploaded them to chef server.
* Worked on **Puppet** extensively for deployment for servers, **AWS** EC2 instances, volumes, DNS, and S3 buckets creating custom scripts and managing changes through Puppet master server on its clients.
* Configured **Puppet dashboard** for quick visual snapshot of important system information and to deliver valuable reports and created a **puppet database** for storing information about every node, resource, relationship, users and information about entire infrastructure. Wrote custom **Modules** and **Manifests** for creating LAMP stacks on AWS instances**.** Performedupgradation of **Puppet community** and **Puppet Enterprise**. Configured and managed Puppet **master server** and experience in updating and creating modules and delivering them to puppet **clients** and managing **SSL certificate**.
* Worked on building and deploying of Java code through **Jenkins** and used **Jenkins Amazon Web Services Code Deploy plugin** to deploy on AWS and worked on **AWS Cloud Management.**
* Wrote **Python** scripts for building custom utilities, custom data visualization for web apps and for managing files and networks.
* Automated various version of Docker Images using **Elastic Container Service** by developing Task definition and Schedulers, dynamically deployed new versions of Docker images by configuring Services to include new Tasks.
* Experience in running multi-Docker container using **Docker swarm** and compose and providing clustering functionality for **Docker containers** and **Docker Compose**.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** Linux, Bash, GIT, Docker, on GCP. Utilized **kubernetes** and docker for the runtime environment of the CI/CD system to build, test and deploy.
* Experience in installing and configuring **Kubernetes** and supported it running on the top of the CoreOS also managed local deployments, creating local cluster and deploying application containers.
* Responsible for configuration of **DNS Server** and **Clients**, configuration of DNS tables using **BIND** packages and experience in troubleshooting **DNS** issues.
* Created and managed a **Docker** deployment pipeline for custom application images in the cloud using **Jenkins.** Integrated **Jenkins** with **SVN** source code repository and maintained builds continuously when the developer’s check-in their code.
* Worked Extensively on developing **Python** scripts to automate various parts of the Build Pipeline to configure the Middleware and deploy the application.
* Implemented End to End automated **CICD** pipeline for build and deployments using **Jenkins**, **mdeploy**, **groovy** & Shell scripting with stages like checkout, unit testing, build and package, sonar analysis, deploy to test and QA, End to End UI testing.
* Deployed **Java/J2EE** applications on to **Apache Tomcat** application servers and configured it to host the website Experience in installation, management and administration of provisioning tool **Puppet**.
* Used to manage tickets using **JIRA** ticketing tool, created projects, assigning permissions to users and groups for the projects & created mail handlers and notification schemes for JIRA.
* Configured **SPLUNK** Alerts and created Dashboards for Monitoring and troubleshooting Cassandra related issues also automating log search and analysis. Configure and Installed **Splunk Enterprise**, Agent, and Apache Server for user and role authentication and SSO Integration for user authentication and Single Sign-on in **Splunk Web**.

**AT&T, St. Louis, MO May 2013– Sep 2016**

**Technical Architect/Middleware Engineer**

* Installation, configuration and administering **RedHat Enterprise Linux server 6.x** and **IBM AIX 6.1** OS, IBM Blade servers andP-Series Servers using **Kickstart, NIM** and CD media.
* Involved in Installation, Configuration **of WebSphere Application server** though **DevOps tool Chef**.
* Administered, monitored and configured **DevOps tool – Chef**.
* Created cookbooks with recipes in **Chef**, maintained and reused those recipes for multiple functions.
* Created **Roles** in **Chef** and managed **Recipes** for installing, configuring applications.
* Experience using build and release management tools like **Clearcase** and **Subversion**.
* Implemented and used **Nagios, Splunk** monitoring tool for log management and monitoring.
* Developed **Jython** scripts for synchronization of load test clients and parametrization with test data
* Responsible for applying patches and fixes through **Roles in Chef** to **WebSphere 6.x** to bring it up-to-date.
* Designed & developed **LDAP** Authentication & Authorization Service using **Java, LDAP, JNDI**.
* Installed and administered **Tivoli Access Manager** (TAM 6.1.1) and supported the **TAM with TDS** (**Tivoli Directory Services**) infrastructure.
* Installed and Configured **WebSEAL** as proxy server for **TAM 6.1.1**.
* Created and monitored **Junctions**.Attached **ACLs and POPs** to secure Web resources.
* Involved in process of **renewing** and **updating expired certificates** for **WebSEAL, TAM and LDAP** every cycle.
* Performed troubleshooting for **WebSEAL, TAM 6.1.1.1, WAS 7.0**, in Production and Stage environments**.**
* Monitoring **WebSphere Application Server** performance through inbuilt monitoring tool.
* Performed **WebSphere** configuration, backup and restoration tasks by use **of Chef**.
* Involved in configuring the WebSphere load balancing utilizing **WebSphere Workload Management** including horizontal scaling and vertical scaling.
* Installed and configured **IBH HTTP Server** and **iPlanet web servers**, **WebSphere application servers** and back-end data servers to create end-to-end web services by use of **Cookbooks in Che**f.
* Experience with **LDAP**, **SSO** (**Single Sign On**), **WebAgent** configuration, **Netegrity Siteminder, VIPs** (Virtual IP address), Content Smart Switch functionality in complex clustered environment
* Problem determination using log file. Managed complex environments for the customer IT environments from a software support perspective for **IBM WebSphere Application Server** on both UNIX and windows platforms.
* Developed and supported application solutions to meet client requirements delivered through a **WebSphere Portal** based intranet.
* Monitored developed applications and fixed bugs.
* Trouble shooting various problems in different stages of development, QA and production using logs files, JVM Count and JDBC Connections.
* Involved in documentation of everyday activities.
* As the project drew to a close, created detailed production support documentation and trained the in-house production support team on the design and WebSphere administration of the App, so that they could seamlessly continue production support
* **On-call support (24x7**), Monitoring and maintaining multiple Applications.

**MasterCard, O’Fallon, MO Aug 2012 – April 2013**

**Middleware/System Engineer**

* Installation, configuration and administering **RedHat Enterprise Linux server 6.x** and **IBM AIX 6.1** OS, IBM Blade servers andP-Series Servers using **Kickstart, NIM** and CD media.
* Hosting and securing web pages using **Apache** (**httpd**) **web server** **Tomcat** and **SSL** certificate and applying necessary patches**.**
* User, group administration and Quota Management, Handling troubleshooting issues like **User management, backups and** NIC bonding for **load balancing** and **failover**.
* Installing, Configuring and Administering **WebSphere Application Server** and **WebSphere MQ** on **Windows** and **Unix** Platforms (AIX, Solaris).
* Administration and Maintenance of **IBM HTTP Server** and **WebSphere Application Server** for various production environments.
* Deployment of **J2EE** Applications involved in Creating Clusters for Load Balancing and Failover.
* Configuring Resources like **JDBC** Provider for **Oracle, creating Virtual Hosts, Shared Libraries, JNDI Configurations, EJB References, Environment Variables, and Configuring Session Management**.
* Hands on experience in Migrating the existing configuration and applications from **WAS 5.0 to 6.0 on Windows, Sun Solaris, AIX.**
* Profiled all the J2EE Applications and worked with Application Groups in improving performance of application and possible memory leaks in application before deploying in Production.
* Writing shell scripts in **bourne and korn** shells to automate the administrative tasks.
* Identifying the need for Queue managers, Queues, Channels, Listeners and other MQ Objects, defining, administering and maintaining the same.
* Installed and configured **VMware ESXi host 5.x** and configured **vCenter 5.x** and **vSphere 5.x.** Managed the physical and virtual environments using **Virtual Center Server** with a mixture of **ESXi 5.x** and **ESXi 4.x hosts**, consists of multiple physical hosts.
* Created templates for cloning of virtual machines using **VMware Virtual Client** and migrating servers between ESXi hosts.
* Created **Snapshots** and **Snapshot chains** to preserve the state and data of virtual machines stored in virtual machine directory in the form of .**vmdk**. Installation of recovery solutions for VMs with Veeam Backup and VMware vSphere Data Protection and configure of **vRealize** Automation, Application Services, **vRealize** **Orchestrator**. Worked on **VRealize** Creating single tenant or multi- tenant and modifying the default tenant according to client requirement in VRAC.
* Upgrading the kernel in all the **RedHat** Linux servers and creating initrd image to boot from the upgraded kernel. Creating the filesystem using **RedHat Volume Manager** and performing the healthcheck on regular basis for all Linux servers.
* Migration of **RedHat** Linux servers from **4.x** version and working with the application team to resolve the issues post migration.
* Experience in **Windows Server 2008 Active directory** installation and configuration, Performance tuning and management for **Linux** server to resolve issues.
* Storage mapping on **RedHat** Linux and create the **Volume group**, **filesystems** using **Logical Volume Manager.** managing swap Created and modified swap files and added swap space.
* Configuration and administration of **NFS, HTTP, FTP, SAMBA, DHCP, DNS** Servers. Experience in managing and troubleshooting **Apache Web servers.**
* Working with **Backup** team for the **Legatobackup** and **restore**, **Legato** client installation in the **RedHat** Linux server. Installed and Configured **SAMBA** Server in Linux for accessing the shared files from the windows environment. Created and optimized Unix shell scripts using Bash shell. Developed **Korn and Bash shell-scripts** to automate routine activities.