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AWS DevOps Engineer

PROFESSIONAL SUMMARY

- Overall, 6+ years of extensive experience in Automating, configuring, and deploying instances on cloud environments and Data centers. Experience in the areas of DevOps, CI/CD Pipeline, Build and release management, AWS, and Linux/Windows Administration.
- Involved in designing and deploying applications utilizing almost all the AWS stack (Including EC2, S3, Route53, ELB, EBS, VPC, RDS, DynamoDB, SNS, SQS, IAM, KMS, Lambda, Kinesis) and focusing on high-availability, fault tolerance and auto-scaling in AWS Cloud Formation, deployment services (OpsWorks and Cloud Formation) and security practices (IAM, CloudWatch, CloudTrail).
- Implemented multiple CI/CD pipelines as part of DevOps role for on-premises and cloud-based software using Jenkins, Chef and AWS/Docker.
- Configured and managed Elastic Load Balancing (ELB) to implement fault tolerance and avoid single point of failure of applications, thus providing high reliability and efficient usage.
- Production experience in large environments using configuration management tools like **Chef**, **Ansible** and **Puppet** supporting **Chef** Environment with 500+ servers and involved in developing **manifests**. Developed Chef **Cookbooks** to manage systems configuration.
- Experience in developing **puppet** modules (blueprints) for installation, configuration, and continuous integration (**CI**) using combination of puppet master, **git**, **Openstack** (Horizon), and **Jenkins**.
- Experience with container-based deployments using **Docker**, working with **Docker images**, **Docker Hub** and **Docker-registries** and **Kubernetes**.
- Continuous Delivery setups with **Puppet** by creating manifest and maintain templates for different environments. Migration of shell scripts into **Puppet Manifests**.
- Created **Python** scripts to create the snapshots on **AWS S3** buckets and delete the old snapshots.
- Implemented CI/CD for J2EE, SOA & Micro services Architecture Environment (NodeJS, .Net Core, Zookeeper, Kafka, Redis) using Jenkins.
- Involved in **JIRA** as defect tracking system and configure various workflows, customizations and plugins for **JIRA** bug/issue tracker, integrated **Jenkins** with **JIRA**, **GitHub**.
- Involved in the functional usage and deployment of applications in WebLogic, WebSphere, and Apache Tomcat Server.
- Experienced in Bash, Perl, Python, Ruby scripting on Linux.
- Experience in administering and maintaining **Linux** servers in production environments. Supported in installation of packages/patches on **Linux** platforms. Implemented Backup & Disaster recovery management on **Linux** platforms.
- Experience of the full **Software Development Life Cycle (SDLC)**. Also experienced the Methodologies & Validations to ensure Quality Assurance Control.
- Experienced in configuration and maintenance of common Linux services such as **Tomcat, Apache, MySQL, NFS, FTP, Postfix, LDAP, DHCP, DNS BIND, HTTP, HTTPS, SSH, iptables** and **firewall** etc.
- Experienced with principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.

TECHNICAL SKILLS

Operating Systems	RHEL/CentOS, Ubuntu/Debian/Fedora, Sun Solaris 7/8/9/10, Windows Server 2003/2008/2010
Cloud	AWS, Azure
Scripting	Bash, Shell, Ruby, PowerShell, Python, YAML
Build/Automation	Ansible, Chef, Puppet, Jenkins, Maven, Ant
Databases	MySQL, SQL Server, MongoDB, PostgreSQL, Cassandra
Bug Tracking	JIRA, Remedy
Version Control	GIT, Subversion, TFS
Web/App Server	Apache, IIS, TFS, Tomcat, WebSphere Application Server
Web/Programming	Servlets, JDBC, JSP, XML, HTML, .Net, Java Script, Java/J2EE, C, C++, Perl scripting, Python, Shell, Ruby, YAML

EDUCATION

Bachelor of Technology, Electronics and Communications Engineering

GITAM University, India

PROFESSIONAL EXPERIENCE

ON Semiconductor – San Jose, CA Sr. Cloud / DevOps Engineer Sept 2019 – Present

- Involved in AWS EC2/VPC/S3/SQS/SNS based automation through Terraform, Ansible, Python, Bash Scripts. Adopted new features as they were released by Amazon, including ELB & EBS.
- Experienced **Cloud** and **DevOps** engineer in Automating, Configuring, and deploying instances on **AWS**, **AZURE** Cloud environments and Data centers.
- Configuring the monitoring and alerting tools according to the requirement like AWS CloudWatch, AWS CloudTrail, Dynatrace, Nagios, Splunk Enterprise, SNMP monitoring for the VPN connections.
- Written **Cloud Formation Templates** (CFT) in **JSON** and **YAML** format to build the **AWS** services with the paradigm of Infrastructure as a Code.
- Create automation and deployment templates for relational and NoSQL databases including MSSQL, MySQL, Cassandra, and MongoDB in AWS.
- Configuring, automation and maintaining build and deployment CI/CD tools git/git-Lab, Jenkins/Hudson, ANT, Maven, Build
 Forge, Docker-registry/daemon, Nexus and JIRA for Multi-Environment (Local/POC/NON-PROD/PROD) with high degrees of
 standardization for both infrastructure and application stack automation in AWS cloud platform.
- Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS.
- Orchestrated and migrated **CI/CD** processes using Cloud Formation and **Terraform** Templates and Containerized the infrastructure using **Docker**, which was setup in **Vagrant, AWS** and **VPCs**.
- Developed microservice on boarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
- Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling **Kubernetes AWS** infrastructure and **microservice** container orchestration.
- Debugged Chef Recipes and their execution trying to pull logs into Splunk and monitor deployments.
- Automated the cloud deployment using **Chef, Python** and **AWS Cloud Formation** Templates. Used **Chef** for unattended **bootstrapping** in **AWS**.
- Utilized **Jenkins pipelines** to drive all microservices builds out to the **Docker registry** and then deployed to **Kubernetes**, Created **Pods** and managed using **Kubernetes**.
- Built **Docker** container clusters managed by **Kubernetes Linux**, **Bash**, **GIT**, **Docker**, on **GCP** (**Google Cloud Platform**). Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test deploy.
- Installed and Implemented **Ansible** configuration management system. Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
- Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management (Ansible) and experienced in writing **Ansible scripts.**
- Created **Chef Cookbooks** and wrote recipes in **Ruby** Script to install and configured Infrastructure across environments and automated the process using **Python Script**.

Wells Fargo – Houston, TX AWS DevOps Engineer Sep 2018 – Aug 2019

- Designed **AWS** Cloud Formation templates to create custom sized **VPC**, subnets, **NAT** to ensure successful deployment of Web applications and database templates.
- Virtualized the servers on **AWS** using the **Docker**, create the **Docker** files and version control to achieve Continuous Delivery goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx**.
- Experience with setting up Chef Infra, bootstrapping nodes, creating, and uploading recipes, node convergence in Chef SCM.

- Written **Chef Cookbook**, recipes to automate installation of Middleware Infrastructure like **Apache Tomcat, JDK** and configuration tasks for new environments etc.
- Wrote Chef recipes and deployed cookbooks for Web Logic, JDK 1.7, and Jenkins, tomcat, JBoss and deployment automation.
- Using **Chef**, deployed and configured **Elasticsearch**, **LogStash** and **Kibana** (**ELK**) for log analytics, full text search, application monitoring in integration with **AWS Lambda** and **CloudWatch**.
- Managed Amazon instances by taking **AMIs** and performing administration and monitoring of the Amazon instances like **EC2** using Amazon **CloudWatch** and **Nagios, Splunk**.
- Troubleshooting Issues related to **Cluster** deployments, managing **Cluster** nodes for Physical issues and escalating issues to respective vendors.
- Setting up private networks and sub-networks using Virtual Private Cloud (VPC) and creating security groups to associate with the networks.
- Developed automation scripting in **Python** (core) using **Puppet** to deploy and manage Java applications across Linux servers.
- Created and updated **Puppet manifests** and modules, files, and packages stored in the **GIT** repository. Writing various **puppet** manifests files with **Hiera** and customized functions and defined resources
- Scheduled the **Linux Cron jobs** and **Jenkins** jobs for **build** automation. Developed **Perl** and **shell** scripts for automation of the build and release process.
- **Deployed** and **troubleshoot** of various **Jenkins** issues. Installed and uninstalled, upgraded, and downgraded various **plugins** in **Jenkins**.
- Assisted developers with establishing and applying appropriate branching, labeling conventions using **GIT** source control.
- Maintained build related scripts developed in shell for **Maven** builds. Created and modified build configuration files including **POM**.xml.
- Setup a Jumpstart/Flash and Kickstart servers for provisioning of servers with different profiles.
- Installation of Red Hat EL 4.x, 5.x using **Kickstart** and **PXE** on HP DL380 G3.
- Performed backup and administration activities for SVN/GIT branching, merging, tagging.

Nimble Lifetech Pvt. Ltd. – Noida, India Linux Administrator

Sep 2017 - Aug 2018

- Administration of **Windows Servers**, Domains, **Active Directory**, **DNS**, **DHCP**, **SMTP**, SharePoint, System Center, Lync, and Exchange
- Conduct day-to-day tasks in **RHEL** that included upgrading **rpms, kernel, HBA driver, configuring SAN Disks**, multipathing and **LVM** file system.
- Installing and updating packages using YUM (custom YUM servers/repositories) and Red Hat Satellite Server.
- Installation and configuration of Red hat Cluster, Veritas Cluster Server and Veritas **NetBackup**, **Apache**, **Tomcat**, **WebLogic 9**, **10**, and **JBoss**.
- Monitors system capacity & performance and takes appropriate action to report and correct all issues.
- Implementing Kickstart/PXE-boot configuration for automating Linux installations
- Plan, build, document, and support new infrastructure including **VMware and vSphere** virtualization servers, new fileserver, and other resources.
- Automate processes including full and incremental backups using tar and star; migrate and enlarge file systems on Red hat and CentOS.
- Administered Linux servers for several functions including managing **Apache/Tomcat server, mail server, MySQL databases** in both development and production.
- Manages Patches configuration, version control, service pack and reviews connectivity issues regarding security problem and did network management TCP/IP, NIS, DNS, NFS, VLAN.
- Monitoring health of infrastructure servers and mission-critical using Nagios XI.
- Providing solutions to the client about **Disk mirroring and RAID** implementation using **LVM**.
- Setup NFS File Systems and shared them for Clients, Maintenance of NFS Server with Auto Mounts.
- Serve as regional support for project's Team Foundation Server environment including configuration, maintenance, and performance analysis.

- Installation, configuration, and maintenance of **RedHat Linux servers**.
- Performed server installation using Network-Based Kickstart and DVD on physical servers, VMware and OVM.
- Responsible for providing 3backup support across 5 environments of approximately 500+ servers.
- Implemented and configured network services such as HTTP, DHCP, and TFTP.
- Installed and configured Kickstart, DHCP, DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3), and file servers on Linux servers.
- Harden operating system by installing recommended **patches**, monitor the servers by using **TCP dump**, disable services in a bid to minimize and or eliminate unauthorized server access.
- Developed **shell scripts** to automate repeatable tasks; used **bash shell scripting** to manage directories, files, users, and applications.
- Expert on setting up and maintaining Active Directory.
- Install, configure, and support Enterprise network/server monitoring tools. (Manage Engine/Site 24x7, SolarWinds, CA, Nagios)
- Monitoring CPU, memory, iSCSI disks, disk controllers, physical disk, HW and SW RAID, multipath, file systems, network using the tool NAGIOS.
- Developing scripts to be executed as checks by **Nagios** for execution in both **Windows and Linux** environments.