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**Cloud/DevOps Engineer and AWS Administrator**

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Summary:

* **Sr. Cloud/Devops Engineer and System Administrator with 9+ years** of experience in IT industry comprising of **DevOps Engineer and Build and Release Engineer** which includes Software **Configuration Management (SCM), Build/Release Management, Continuous Integration and Continuous Delivery, Server Monitoring and Incident Management** using different tools
* Worked on migration of whole **Infrastructure Resource scripts** from **Cloudformation to Terraform**
* **Migrated 400+** applications from **Onprem to Cloud**
* Expert in capturing the entire "Infrastructure as Code" using tools like **Terraform**, **Packer**
* Proficient in setting up the build and deployment automation for **Terraform**scripts using Jenkins.
* Played a key role in automating the deployments on **AWS** using **GitHub, Terraform , Puppet , Chef and Jenkins**
* Championed in cloud provisioning tools such as **Terraform** and **CloudFormation.**
* Worked on DevOps operations using different tools for achieving **Continuous Integration** and **Continuous Delivery**.
* In-depth understanding of **Software Configuration Management** (SCM) processes which include compiling, packaging and deploying of various applications.
* Experience in working with automation tools like **Chef** and **Puppet**.
* Experience in working with different build automation tools like **Jenkins** and **Maven** to achieve End-to-End Automation.
* Extensively used **Docker** for **virtualization**, **Ship**, **Run** and **Deploy** the application securely for fasten the Build/Release Engineering.
* Proficiency working with containerization tools in **CI/CD** process using **Docker** and **Kubernetes.** Implemented Continuous Integration process using **Jenkins** and **Team city**
* Installed and Configured the **Nexus repository** manager for sharing the artifacts within the company.
* Configured and maintained **Jenkins** to implement the **CI** process and integrated the tool with **Ant and Maven to schedule the builds**. Took the sole responsibility to maintain the **CI** Bamboo server.
* Strong knowledge on source control concepts like **Branches, Merges, and Tags**.
* Experience working with log monitoring with **ELK Stack** (Elasticsearch, Logstash, Kibana).
* Monitoring the entire infrastructure estates Data Center’s servers **(Linux/UNIX/AIX/ Windows)** for proactive support through Management **Portal**, **Workload** **Control** **Center**, and Spectrum. Detect events and determine appropriate control action. **Trouble shooting issues** as they arise and prioritize incident response from the support teams as per the Incident Management process.
* Perform routine Batch monitoring **(Autosys)** and respond to alarms as per **KAs** involving Incident management when required.
* Perform **UAT** on various applications, tools before Service **Operation**/transition.
* **SOI** (Service Operation Insight) – Capturing issues with the **app & infra server issues** and notifying the relevant team to fix the issue.
* Design roles and groups for users and resources using **AWS Identity Access Management (IAM)**.
* Scripting in multiple languages on **UNIX, LINUX and Windows** **– Perl, Ruby, Shell,** etc.
* Leading the **automation** of implementation and configuration work through **Chef**.
* Stay current with the latest features/capabilities of the **AWS** platform.
* Ability to quickly understand, learn and implement the new system **design, new technologies**, data models and **functional components** of software system in a professional work environment.
* Experienced in **Trouble shooting**, Backup and Recovery.

Technical Skills

**Build Tools:** ANT, MAVEN, GRADLE

**Provisioning Tools:** Terraform, CloudFormation

**Version Tools:** SVN, GIT, Perforce, TFS

**CI-CD Tools:** Jenkins, Bamboo, Hudson, Udeploy, Octopus Deploy, TeamCity, TFS

**Web technologies:** HTML, CSS, XML, JAVA Script, JDBC, Servlets, JSP, JQuery, PHP

**CM Tools:** Puppet, Chef, Ansible, OpsWork

**Languages:** C, C++, C#,Python, Java, Java Script, HTML, CSS

**Scripting:** Bash Scripting, Python, Ruby, Pearl

**Database:** Oracle 11g, DB2, SQL Server, MySQL, DYNAMODB, Cassandra, MongoDB

**Operating Systems:** Windows server 2000/2003/2007/2008/ XP, LINUX (RHEL 4/5/6/7), UNIX(11.0,11.11,11.23), Centos

**Bug Tracking Tools:** JIRA, Bugzilla, Remedy

**SDLC:** Agile, Scrum, Waterfall

**Cloud Technologies:** Amazon Web Services(AWS), Open stack, Docker, Azure

**Virtulization:** Vmware, Vagrant, Docker, Elastic Container Service, Kubernetes

**Monitoring Tools:** CloudWatch, Nagios, Datadog, Zabbix, Splunk, Sumologic

**Networking/ Protocols:** DNS, Telnet, LDAP, TCP/IP, FTP, HTTP, HTTPS, SSH, SFTP, SCP, SSL, ARP, DHCP and POP3

**App/Web servers:** Apache Tomcat 7/8/9.x, JBoss 7.x, IBM Web sphere, Apache Web Server, Oracle Web logic, Ngnix

Professional Experience:

**Client: Statefarm, Illinois** **May 2021 – Present**

**Role: AWS Engineer / Admin**

**Responsibilities:**

* Experience in Jenkins by installing, configuring and maintaining for continuous integration (CI) and for Continuous Delivery (CD).
* Experience in managing user access to AWS resources using Identity Access Management (IAM).
* Experience with CI (Continuous Integration) and CD (Continuous Deployment) methodologies using Jenkins,AWS and C.M tools in an Agile Environment tools
* Expertise in Amazon AWS Cloud Administration which includes servers: EC2, S3, EBS,VPC, ELB, Route 53, Auto Scaling, Security Groups, Redshift, and CloudFormation.
* Expertise on using Amazon AWS API tools like: Linux Command line, Puppet integrated AWS API tools.
* Knowledge of Linux and Scripting Languages.
* Proficient with various development, testing and deployment tool – Git, Jenkins, Docker, Kubernetes, Ansible, Nagios
* Experience in working on source control tools like Tortoise SVN, CVS, IBM Clear case, Perforce and GIT. Primarily used Ruby to write GIT applications
* Designed and implemented container managed unit and integration test framework using Jenkins , Maven , Mockito , Git , JIRA , VMWare Fusion , Docker and Ansible.
* Experience with container based deployments using Docker, working with Docker images, Dockerhub and Docker registries.
* Azure load balancing Solutions, included Layer 7 application gateway and layer 4 load balancer.
* Well used and experience in deploying the code through web application servers like Web Sphere, WebLogic, Apache Tomcat.
* Strong use scripting languages like Python, Ruby, Perl, Bash and Shell configuration
* Integration of Maven/Nexus, Jenkins, Urban Code Deploy with Patterns/Release, Git, Confluence, JIRA and Cloud Foundry.
* Expertise in installing, configuring and managing WEB LOGIC, Apache, and VMware Server in clustered environments for High Availability, Load balancing and fail over.
* Proficient in configuring JumpStart and KickStartservers to initiate installation of Solaris and RedHat Linux on several machines at once.
* Implementations of automatic secure SSH Login, User and Group administration.
* Experience in administering VMware infrastructure , including ESX 4.x and 5.x , vCenter, vSphere 5.x and associated VMware products. Creation of VMs, cloning and migrations of the Virtual Machines on VMware vSphere .
* Creation and administration of Route tables to manage traffic within Azure environments, Azure Cloud Services,Azure Virtual Machines,Azure Active Directory,Azure Resource Manager,Azure PowerShell.
* Good understanding of Devops key concepts like Infrastructure as Code (IaC)
* Cloud Technologies: AWS (Amazon Web Services): EC2, VPC, IAM, S3, ELB's and AUTOSCALING, CLOUDWATCH, CLOUDFORMATION, ROUTE53, SNS, SQS, BASIC CONCEPT OF ELASTI CACHE, DYNAMODB
* Familiar with container systems like Docker and Kubernetes
* Experience in developing CI/CD pipelines.
* Private Cloud Environment - Leveraging AWS and Puppet to rapidly provision internal computer systems for various clients.
* Develop Puppet modules and role/profiles for installation and configuration of software for required for various applications/blueprints.
* Wrote python scripts to manage AWS resources from API calls using BOTO SDK and also worked with AWS CLI.
* Wrote Ansible playbooks to launch AWS instances and used Ansible to manage web applications, configuration files, used mount points and packages.
* Setup Puppet Master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Maintenance and Vulnerability Management of Hybrid infrastructure and CI/CD using Chef - Cookbooks.
* Experience with Chef Enterprise Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-server, managed On-site Applications/ Services/Packages using Chef as well as AWS for EC2/S3/Route53 & ELB with Chef Cookbooks.
* Excellent configuration management using Chef, puppet, Ansible.
* Expert in capturing the entire "Infrastructure as Code" using tools like Terraform , Packer .
* Experience in writing basic modules for Puppet and good understanding analyzing manifests and configuration experience with software provisioning tools like Chef, puppet and knowledge on Vagrant.
* Responsible for large - scale puppet implementation and maintenance. puppet manifests creation, testing and implementation.
* Experienced in Writing Chef Recipes to automate our build/deployment process and do an overall process improvement to any manual processes and Managed many software configuration files by using Chef.

**Client: Citizens Bank, North Providence, RI Oct 2019 – Feb 2021**

**Role: AWS Admin**

**Responsibilities:**

* Worked on migration of whole Infrastructure scripts from Cloudformation to Terraform
* Automate Datadog Dashboards with the stack through Terraform Scripts.
* Wrote Terraform scripts for Cloudwatch Alerts, AWS Infrastructure
* Worked with version control, configuration management, and software deployment Git, SVN, Puppet, Jenkins.
* Used Kubernetes for Service mesh pattern. Used out of the box AWS API Gateway
* Delivered cloud environments as code via [Terraform](https://www.terraform.io/), operationalized Kubernetes with logging, monitoring, security, and service mesh capabilities, and built [GitOps](https://www.weave.works/blog/what-is-gitops-really)-powered continuous delivery pipelines for application deployments
* Configured Service mesh infrastructure layer for microservices application.
* Created ECS Containers and deployed applications, architected to run. Created a task file in JSON format that describes one or more containers to form application
* Carefully monitor the health or utilization of AWS resources on a full scale by making use of highly complex Amazon CloudWatch.
* Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins
* Created a AWS Lambda Python script for automating EC2 instances stop and start
* Maintaining a Backup of the resources is a different important responsibility. AWS resources backup from time to time by making extensive use of AWS services.
* Experience with automated deployment and integration of Azure both cloud and on-premises; familiarity and/or experience with Microsoft System Center integration and deployment.
* To reduce the time required for the production, capable of deploying automation infrastructure by using the AWS Cloud Formation technique.
* It is his responsibility to improve the resources and work on resource tagging to designate costs and for thoroughly planning of budgeting, governance, and reporting.
* Commercial Cloud Services (C2S) is an integral part of AWS. Creating compelling presentations that support C2S overviews is the duty of AWS Administrator himself.
* For Creating and managing VPC, URL proxies, C2S access points & as well as Bastion Hosts.
* To communicate with the NISP network team to complete the network connections for the clients VPCs.
* To efficiently monitor billing and to develop cost optimization strategies.
* Configured instances using AWS EC2 and configured Elastic Load Balancer for continuous health checks, Optimized volumes and Auto scaling groups and Configured object storage S3 bucket for backup and used Glacier to achieve data in cost effective manner, used multiple methods such(DMS) as Data Migration services to transfer large data from on-premise to AWS cloud.
* Worked on AWS IAM service for user management, groups and grant permission to new accounts, groups roles to access EC2, S3 and RDS services.
* Installed Chef Server and Chef Client and created Chef Recipes and Cookbooks, workstation and bootstrapped the nodes using knife and automated by writing ruby scripts Test-Kitchen/chef spec.
* Responsible in managing all aspects of the software configuration management process including code compilation, packaging, deployment, release methodology and application configurations.
* Worked on AWS services like CloudWatch, CloudFormation, CloudFront to setup and manage cached content delivery for speedy recovery and created Elastic load balancers (ELB) for high availability and used Route53 for DNS resolution.
* Worked on creating theDocker containers, Docker container images, tagging and pushing the images and Docker consoles for managing the application life cycle.
* Deployed Kubernetes clusters on top of amazon EC2 instances using KOPS and managed local deployments in Kubernetes creating local clusters and deploying application containers and building/maintaining docker container clusters managed by Kubernetes and deployed Kubernetes using helm charts.

**Environment:** AWS, EC2, S3, RDS, Docker, Kubernetes, Tomcat, Jenkins, Ansible, Terraform, Python, Groovy, Linux, Shell, Teamcity, Salt, CloudFormation, Jira, Git

**Client: Akrivia Automation Jul 2013 – Aug 2019**

**Role: Cloud DevOps Engineer AWS**

**Responsibilities:**

* Configured instances using AWS EC2 and configured Elastic Load Balancer for continuous health checks, Optimized volumes and Auto scaling groups and Configured object storage S3 bucket for backup and used Glacier to achieve data in cost effective manner, used multiple methods such(DMS) as Data Migration services to transfer large data from on-premise to AWS cloud.
* Worked on AWS IAM service for user management, groups and grant permission to new accounts, groups roles to access EC2, S3 and RDS services.
* Installed Chef Server and Chef Client and created Chef Recipes and Cookbooks, workstation and bootstrapped the nodes using knife and automated by writing ruby scripts Test-Kitchen/chef spec.
* Responsible in managing all aspects of the software configuration management process including code compilation, packaging, deployment, release methodology and application configurations.
* Worked on AWS services like CloudWatch, CloudFormation, CloudFront to setup and manage cached content delivery for speedy recovery and created Elastic load balancers (ELB) for high availability and used Route53 for DNS resolution.
* Using bamboo as CI and installed maven plugins and chef as configuration tools deployed many web applications in app server.
* Maintained GIT repositories for automation code and configuration in CI/CD Process to build and deploy the applications by utilizing tools such as Maven with plugins in Jenkins server.
* Wrote Chef Cookbooks, recipes using ruby to automate installation of Middleware Infrastructure like Apache Tomcat, JDK, and configuration tasks for new environments.
* Worked on Docker hub, Docker Images and handling multiple images for installations and configurations and Responsible for running Jenkins in a Docker container with EC2 slaves in AWS cloud.
* Involved in developing unit and functional scripts for frontend and backend applications using Python, Groovy scripts.
* Worked on creating Chef Attributes, Chef Templates, Chef Recipes, and Chef Files for managing the configurations across various nodes using Ruby.
* Experience in setting up kubernetes cluster using KOPS scripts and rancher and experience in creating build process for docker based deployments using jenkins pipelines.
* Develop CI/CD system with Jenkins on Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Created Classes, Configuration files and complex resources in Chef modules and reused existing Build-In variables, setting Environment and managing packages, services, files and their dependencies in Chef.
* Enhanced existing shell/python scripts which includes build path, build directories, process to copy deployment package and run them in deployment directories.
* Communicated with Onsite and Offshore team for making the project run smooth and coordinated all teams in deployments of large scale applications.
* Managed Business Application Support in building/deploying the development projects of SDLC and STLC with automation testing like Selenium.
* Worked with JIRA for project tracking and updating defects and related tasks which handles the project in smooth manner.

**Environment:** Java/J2EE, Subversion, Jenkins, JIRA, Ansible, Maven, Docker, GIT, Chef,, AWS, Python, Remedy, Shell Scripting, UNIX/Linux.

**Education:** Bachelors of Mechanical Engineering, JNTUK