**Ramesh Bishwakarma**

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***PROFESSIONAL SUMMARY:***

7+years of experience in IT industry relating to Linux administration, Continuous Integration, Continuous Deployment, Devops & AWS. Strong experience on Red hat enterprise, Oracle enterprise and Ubuntu server Linux. Proficient in Build & Release automation framework designing, Continuous Integration and Continuous Delivery, Build & release planning, procedures, scripting & automation Strong knowledge on AWS, Virtualization, Cloud computing and Web services. Experience in working on cloud AWS cloud EC2, S3, RDS, VPC, ELB, Auto Scaling with AWS CLI and AWS Python SDK.  Proficient in writing Cloud Formation Templates (CFT) in YAML and JSON format to build the AWS services with the paradigm of Infrastructure as a Code. Migrated On premise data to AWS cloud using EFS, AWS Cli and S3.

* Hands-on experience in Dockers container
* Involved in the functional usage and gained working knowledge of web servers like Tomcat, HTTP, JBOSS, IIS, WebSphere, WebLogic, and Nginx.
* Experience in Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector, Services, and deployed application containers as Pods.
* Strong knowledge on source controller concepts like Branches, Merges and Tags.
* Acquired practical exposure with Continuous Integration/Continuous Delivery tools like Jenkins, Bamboo to merge development with testing through pipelines.
* Experience in using Docker and setting up ELK with Docker and Docker-Compose. Actively involved in deployments on Docker using Kubernetes.
* Worked with Terraform to create stacks in AWS updated the Terraform scripts based on the requirement on regular basis.
* Written Ansible Playbooks to automate our Build and deployment process
* Experience in configuration of NIS, NIS+, DNS, DHCP, NFS, LDAP, SAMBA, FTP, remote access, security management and Security trouble shooting skills.
* Used SonarQube for static code analysis.
* Addressed technical debt created out of code violation and vulnerabilities.
* Strong experienced in Configuration Management like Chef, Puppet performing application builds/packaging, defect management, troubleshooting, version control and environment supervision.
* Proficient knowledge with Helm charts to manage and release of helm packages.
* Possess high working qualities with good interpersonal skills, high motivation, fast learner, good team player and very proactive in problem solving to provide best solution
* Worked with different Bug tracking tools like JIRA, Rally, Remedy, Fisheye, Crucible and IBM Clear Quest.
* Good understanding of the principles and best practices of (SDLC) systems development life cycle in Agile & scrum.

***Education:*** The University of Texas at Arlington, Bachelor’s in Science Information system

***Certifications****:* **AWS** **Certified Solution Architect Associate**

***PRofessional summary:***

**Client: IBM Austin, TX July 2020 – Present**

**Role: DevOps Engineer**

**Roles & Responsibilities:**

* Involved in Amazon Web Services (AWS) provisioning and AWS administrations like EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, CloudFront, Elastic File system, RDS, DynamoDB, VPC, Route53, CloudWatch, CloudTrail, CloudFormation, IAM, Elastic Search.
* Worked on creation of Docker containers and Docker consoles for managing the application life cycle.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing director structures and managing containers in AWS ECS.
* Refined automation components with scripting and configuration management (Ansible).
* Involved in setting up application servers like Tomcat, WebLogic across Linux platforms as well as written shell scripts, Perl, Python, Ruby scripting on Linux.
* Implemented CloudTrail to capture the events related to API calls made to AWS infrastructure.
* Responsible for writing and editing scripting files in Shell to automate and monitor Tasks.
* Used Jenkins, GitHub for Continuous Integration and Deployment.
* Configuration of various alerts captured support logs and configured resource pools using SiteScope and Splunk tools.
* Develop scripts to automate network administration tasks and application deployments.
* Defined Chef Server and workstation to manage and configured nodes.
* Performed general administration duties including permissions, upgrades, and patches on cloud systems (Azure, AWS).
* Created Clusters in Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure.
* Automated the scheduling, rollout and rollbacks using Kubernetes to launch container on particular cluster nodes and bring it to desired state.
* Worked on Azure VPN-Point to Site, Virtual networks, Azure Custom security, endpoint security and firewall.
* Implemented CI/CD Pipeline for DevOps environment. It bridges the gap between development and operations teams by automating the building, testing, and deployment of applications using Git, Docker, Jenkins, and Ansible.
* Created Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks and ingress by writing YAML files.
* Installed, configured and automated the Jenkins build jobs with AWS deployment pipelines using various plugins like Jenkins-EC2 plugin and Jenkins-Cloud Formation plugin.
* Continuous Integration, automated deployment and management using TeamCity, Gradle, JIRA, Testing Frameworks, Code quality tools like SonarQube and many other comparable tools based on the requirements.
* Utilized AWS Cloud Watch to monitor the performance environment instances for operational and performance metrics during load testing.
* Created new EC2 instance in AWS, allocate volumes and giving Provisional’s using IAM.
* Involved in creating customized dashboards on Grafana and integrated AWS Cloud watch & Grafana.
* Installed, configured and automated the Jenkins build jobs with AWS deployment pipelines using various plugins like Jenkins-EC2 plugin and Jenkins-Cloud Formation plugin.

**Client: Pomeroy Pittsburgh, PA March 2019 – July 2020**

**Role: DevOps/Cloud Engineer**

**Roles & Responsibilities:**

* Participate in planning, implementation, and growth of the infrastructure on Amazon Web Services (AWS)
* Work closely with the architect and engineers to design networks, systems, and storage environment that effectively reflect business needs, security requirements, and service level requirements.
* Manage a continuous integration/continuous deployment methodology for the server-based technologies.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Providing a better workflow for Continuous Integration and Continuous Delivery.
* Managed branching, merging, tagging and other source control tasks in Git and Azure Devops.
* Created Cloud Formation (CFT) templates and deployed AWS resources like EC2, Auto scaling, EBS, and S3.
* Implemented Server less architecture using AWS Lambda with Amazon S3 and Amazon DynamoDB
* Created S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Created custom Amazon Machine Images (AMIs) to automate server build during for auto scaling during peak times. Also, deployed applications in AWS using Elastic Beanstalk.
* Automated application deployment in the cloud using Docker technology using Elastic Container Service scheduler.
* Setup Datadog monitoring across different servers and AWS services.
* Created datadog dashboards for various applications and monitored real-time and historical metrics.
* Monitored performance and history of infrastructure with tools such as CloudWatch, Datadog etc.
* Automated creation of immutable infrastructure (EC2, VPC, ELB, Auto Scaling etc) using terraform.
* Worked with security team on resolving the different security issue like ssl and tls cert issues and http headers etc.
* Maintain servers' configurations using salt stack tool.
* Wrote scripts to onboarding and offboarding employees
* Write the bash and Python scripts to automate the infrastructure.
* Created multiple Virtual Machines using Power Shell scripting for the testing purposes.
* Worked as DevOps resource for creating Azure DevOps automation scripts in PowerShell.
* Implemented Azure Resource Groups, Resource Tags, AAD groups, and Role based access.
* Designed and implemented cloud network architecture using Azure virtual networks, VPN, and express route to establish connectivity between on premise and cloud.
* Designed and deployed applications utilizing AZURE stack (Including Azure VM's, Blob Storage, SQL Database, Data Factory, Virtual Network, Traffic Manager, Load Balancer, AKS, Key Vault, Log Analytics) to achieve high-availability fault tolerance, and auto scaling in Azure Resource Manager.
* Worked on Azure VPN-Point to Site, Virtual networks, Azure Custom security, endpoint security and firewall.
* Created Clusters in Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure.

**Environment**: AWS, Kubernetes Docker Salt, Git, Jenkins, Docker, slack, AWS, PagerDuty, terraform Bash, Python, Azure Devops.

**Client: UPMC, Pittsburgh, PA July 2018 - Feb 2019**

**Role: DevOps AWS Engineer**

**Roles & Responsibilities:**

* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, Utilized Kubernetes, and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Launched EC2 instances and involved in AWS RDS, S3, Load Balancing, IAM, VPC, Cloud Formation, Lambda and Cloud Watch.
* Created AWS Elastic Map Reduce (EMR) clusters and Configure the Data pipeline with EMR clusters for scheduling the task runner.
* Worked on estimating costs and identifying cost control mechanisms.
* Lift and shift of an existing on-premises application to AWS, Identifying appropriate use of AWS architectural best practices
* Experience in defining the AWS Security Groups which act as virtual firewalls that control the allowed traffic to reach the EC2 Instances.
* Automated the build and release management process including monitoring changes between releases
* Used Ansible playbooks as a Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Gathered all the stakeholder approvals, necessary signoffs while acting as a release manager for two development teams
* Provided application support by reviewing the tickets and troubleshooting the issues.
* Responsible for health checks and performance monitoring of the application.
* Created continuous integration system using Jenkins Puppet full automation, Continuous Integration, faster and flawless deployments.
* Responsible for Building and configuring Redhat Enterprise Linux systems over the network, implementing automated tasks through crontab, resolving tickets according to the priority basis.
* Configuration and administration of DNS, Web, Mail, DHCP and FTP Servers. Managed users and groups on a large scale in NIS and LDAP environments.

**Environment:**  Linux servers 5/6/7, Red hat Linux 5/6/7, Ansible puppet, Puppet DB, Docker, Kubernetes,AWS Bash and Python

**Client: GE Appliances, Milwaukee, Wisconsin May2016 – June 2018**

**Role: Devops AWS Engineer**

**Role & Responsibilities:**

* Experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, Cloud Front, Elastic File system, RDS, DynamoDB, DMS, VPC, Route53, Cloud Watch, Cloud Formation, IAM.
* Migrated On primes static website to AWS S3.
* Developed Cloud Formation template stacks to automate building environment using JSON/YAML files.
* Migrated On premise data to AWS cloud using EFS, AWS CLI and S3.
* Worked with teams on VPC peering and creating end points.
* Set up AWS Guard duty security monitoring tool and integrated all AWS account with Master Account and created slack notifications.
* Managed Puppet infrastructure through major version upgrades. Refactored Puppet code to leverage new features.
* Deployed Nagios Monitoring tool in Existed environment using Puppet and Jenkins and wrote Custom checks to monitor Centrify service and disk spaces.
* Implemented user Active Directory authentication for non-Windows Operating Systems leveraging Centrify.
* Managing the on -primase windows/Linux/Unix server backup using EMC networker tool.
* Created architecture diagram using cloud craft tool.
* Created and managed HA proxy load balancers for on primase web servers and Docker containers traffic load balancing.
* Responsible for up to 2000 Linux servers and over 10,000 users in a global technology environment.
* Worked on day to day operation on Linux servers
* Configured/Maintained Zones, LDOMs, ZFS file system Sun Solaris 10 Servers.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as IPtables, firewall, TCP wrappers, NMAP.
* Designing Firewall rules for new servers to enable communication with application, Oracle 11g/12c servers.
* Administered SMTP and DNS infrastructure (Sendmail 8.14 and BIND SPLIT DNS version 9.8.1)

**Environment:** Oracle Linux servers 5/6/7, Red hat Linux 5/6/7, ubuntu, Git, Jenkins, puppet, Puppet DB, Docker, Docker swarm, Centrify, Nagios, EMC networker, slack, AWS, Bash, Python.

**Client: NetApp, Sunnyvale, CA March 2015 – May 2016**

**Role: DevOps Engineer**

**Role & Responsibilities:**

* Experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, Cloud Front, Elastic File system, RDS, DynamoDB, DMS, VPC, Route53, Cloud Watch, Cloud Formation, IAM.
* Interacting with clients to assist in setup of Virtual Private Networks across departments with strong Network ACLs, Security Groups and Firewall policies at both the Subnet and the Instance OS level
* Wrote cloud formation templates for creating infrastructure in AWS.
* Deployed Puppet, Puppet Dashboard, and Puppet DB for configuration management to existing infrastructure.
* Implemented Puppet modules to automate configuration of a broad range of services.
* Wrote cloud formation templates for creating infrastructure in AWS.
* Utilized Route53 to manage DNS zones and assign public DNS names to elastic load balancers IP's.
* Involved in developing and deploying of microservices using technologies like Docker.
* Installed Jenkins on Linux Machines and created the master/slave architecture.
* Worked on maintaining Docker Images and containers
* Setting the Ip tables for more security in Linux servers.
* Setting up network environments using TCP/IP, NIS, NFS, DNS, SNMP agents, DHCP and Proxy.
* Remote system administration using tools like SSH, Telnet, and Rlogin.
* Installation and deployment of a Red hat Network Satellite Server 5.4.1.
* Installed and configured GNUPG to encrypt file and ftp to remote ftp server.
* Working on Volume management, Disk Management, software RAID solutions using VERITAS Volume manager &amp; Solaris Volume Manager. File system Tuning and growing using VERITAS File System (VxFS), coordinated with SAN Team for storage allocation and Disk Dynamic Multi path.
* Applied appropriate support packages/patches to maintain system integrity.

**Environment**: Redhat Linux 5.0/6.0, Solaris9/10, Puppet, puppet DB , Docker, Jenkins, VSphere 5.5/6.0, Veritas 5.0/6.0 AWS, Bind, SMTP, Bash and Python

**Level 3 Communication, Broomfield, CO Apr 2013 - Nov 2015**

**Linux Systems Engineer**

**Role & Responsibilities:**

* Installation, Configuration, Upgradation, and administration of Sun Solaris, Redhat Linux.
* User account management and support.
* Jumpstart & Kick-start OS integration, DDNS, DHCP, SMTP, Samba, NFS, FTP, SSH, LDAP integration.
* Network traffic control, IPSec, Quos, VLAN, Proxy, Radius integration on Cisco Hardware via Red hat Linux Software.
* Responsible for configuring and managing Squid server in Linux.
* Configuration and Administration of NIS environment.
* Managing file systems and disk management using Solstice Disksuite.
* Managing systems routine backup, scheduling jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Log file was managed for troubleshooting and probable errors.
* Responsible for reviewing all open tickets, resolve and close any existing tickets.
* Document solutions for any issues that have not been discovered previously.

**Environment**: Sun Solaris 2.6/7, SUN Ultra Enterprise 6000/450, SUN Ultra 10/5/2/1, Windows NT 4.0, RHEL 4/5