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PADMANABUNI SATISH

Cloud DevOps Engineer

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PROFESSIONAL SUMMARY

ABOUT ME

* Worked on installation, configuration, maintenance and troubleshooting of Red hat Linux, Linux, Ubuntu, Fedora, CentOS, Sun Solaris and some Windows Servers.
* Experience in Cloud implementations [AWS, Azure] involving extensive work towards code compilation, packaging, building, debugging, automating, managing, tuning and deploying code across multiple environments yet flexible in multitasking when necessary. Proficiency in writing automation scripts to support infrastructure as code in AWS/Azure and Linux/Windows Administration.
* Experience in architecting and Configuring public/private cloud infrastructures utilizing Amazon Web Services (AWS) including EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Cloud Front, RDS, Dynamo DB, VPC, Direct-Connect, Route53, Cloud Watch, Cloud Formation, IAM
* Experience on complete software development life cycle (SDLC) with software development models like Agile, Scrum Model, JIRA, Waterfall model.
* Highly motivated and committed DevOps Engineer experienced in Automating, configuring and deploying instances on AWS, Microsoft Azure and Rack space cloud environments and Data centers.
* Build and configure a virtual data centers in the AWS cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer (ELB).
* Transfer data from Data centers to cloud using AWS Import/Export Snowball service.
* Managed servers on the Amazon Web Services (AWS) platform using CloudFormation and Terraform to orchestrate the high availability and scalable environments.
* Automate deployment for SaaS based application on cloud using Chef Enterprise, Pivotal Cloud Foundry and AWS.
* Experience in google cloud platform (GCP) cloud by provisioning compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring components using the Terraform GCP Foundation modules

Overall, 10+ years of comprehensive experience in the areas of 6 years of experience in DevOps, AWS Cloud, CI/CD pipeline, 6 years of experience in Configuration Management Build/Release Management and Linux/Windows Administration.

EDUCATION

* Bachelors in Electronics and Communication Engineering from Lovely Professional University (LPU), India.

CERTIFICATIONS

* Certified Kubernetes Administrator.
* Certified AWS Developer – Associate.
* Certified Microsoft Azure Administrator
* Certified Terraform Associate.
* Manage Amazon Redshift clusters such as launching the cluster and specifying the node type as well.
* Setup and build AWS infrastructure using various resources, VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS in Cloud Formation JSON templates, Route53, Lambda.
* Create and deploy applications, manage domains, control access to our OpenShift applications, and give you complete control of your cloud environment.
* Perform maintenance and troubleshooting of our enterprise Red hat OpenShift systems
* Experience in integrating Terraform with Ansible, Packer to create and Version the AWS Infrastructure, designing, automating, implementing and sustainment of Amazon machine images (AMI) across the AWS Cloud environment.
* Performance tuning the tables in Redshift, data Validation, Quality check in Redshift using Python.
* Worked on AWS for deploying EC2 instances consisting of various flavours viz., Oracle Linux, RHEL, CentOS, Ubuntu and Solaris in both Linux and Windows.
* Created and deployed VMs on the Microsoft cloud service Azure, managed the VMs, Azure AD and SQL.
* Experience on Aws and Azure Cloud migration Services and Data base migration services.
* Experience in maintaining Atlassian products like JIRA, Confluence, Bamboo and Bitbucket.
* Experience in managed Kubernetes services such as Elastic Kubernetes service (EKS) & Azure Kubernetes (AKS).
* Wrote tools in Perl & shell scripting to gather user data from global network and database systems via parallel SSH connections for user management & made data available across the network via RESTful interface.
* Experience in development and deployment of applications using JBoss, IBM WebSphere Application and Apache Tomcat.
* Knowledge in Terraform as infrastructure providers, build images using Packer.
* Written Shell scripts to check if all the servers have dual SAN paths that are live paths.
* Experience in using Configuration management software's like Chef, Ansible and Docker for AWS/Azure.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, Shell/Bash, Perl, Groovy and Docker on familiar servers like Apache.
* Specialized in provisioning the GCP Global HTTPS load balancer routes the traffic to GCP GKE cluster via Terraform modules.
* Proficiency in using tools like AWS Migration Hub, AWS Database Migration Service, Azure Migrate, and Azure Site Recovery for seamless migration of applications and workloads.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Perform architect roles like redefining architecture and automate existing one
* Experience in Installation and Configuration of different modules of Service-Now.
* Evaluated and implemented Terraform modules from the community and integrated them with custom modules to improve infrastructure automation and efficiency.
* Experienced in branching, tagging and maintaining the version across the environments using SCM tools like GIT, Subversion (SVN) and TFS on Linux and windows platforms.
* Developed Playbooks using Ansible to deploy consistent infrastructure code across multiple environments.
* Worked on Jenkins jobs to new server, Jenkins pipelines, and Docketed build environments
* Advance troubleshooting for SSO web applications and SAML integrations Digital Key Management and Federated Identity partner integration.
* Worked on monitoring tools such as Nagios, Splunk, ELK Stack (Elastic search, Log stash, Kibana), Cloud Watch.
* Experience in Installing, configuring Cloud Foundry Ops Manager, App Manager, Etc.

TECHNICAL STACK

|  |  |
| --- | --- |
| **AWS Services** | RDS, EC2, VPC, IAM, Cloud Formation, EBS, S3, ELB, Auto Scaling, Cloud Trial, SQS, SNS, SWF, Cloud Watch. |
| **CI/CD** | Jenkins, Azure Pipelines |
| **Artifactory** | Jfrog and Nexus |
| **Web Servers** | Nginx |
| **Documentation** | Confluence |
| **Operating Systems** | Microsoft Windows XP/ 2000, Linux, UNIX. |
| **Tracking Tools** | Jira |
| **Code Scanning** | Sonar Qube, Jfrog X ray, ECR Inspector |
| **Databases** | RDS, Cosmos DB, My SQL DB. |
| **Container Platforms** | Docker, Kubernetes, OpenShift. |
| **Monitoring Tools** | Nagios, Splunk, Datadog, Grafana, Prometheus. |
| **Languages** | Python, Shell scripting. |
| **Cloud Platforms** | Microsoft Azure, Aws Cloud. |
| **Azure Services** | App Services, Key vault, function app, Blob storage, Azure Active Directory (Azure AD, Azure Container Registry (ACR) and Azure Kubernetes service (AKS), Azure SQL, Azure Cosmos DB. |
| **Version Control Tools** | GIT, Bit Bucket, GitLab, GitHub |

WORK EXPERIENCE

**Cloud Devops Engineer**

**Cisco, San Jose, CA / Jan 2022 to Present**

**Responsibilities**

* Launching EC2 instances and involved in AWS RDS, S3, Load Balancing, IAM, VPC, Cloud Formation, Lambda, and Cloud Watch by using Terraform.
* Used AWS Route53, to route the traffic between different availability zones. Deployed and supported Mem-cache/AWS Elastic-Cache and then Configured Elastic Load Balancing (ELB) for routing traffic between zones.
* Worked on Multiple AWS instances set the security groups, Elastic Load Balancer (ELB) and AMIs, Auto-scaling to design cost effective, fault tolerant and highly available systems.
* Implemented cloud services IAAS, PAAS, and SaaS, which include Open stack, Docker and OpenShift.
* Worked on NoSQL database Dynamo DB to process large data documents.
* Designed and worked with team to implement ELK (Elastic search, Log stash and Kibana) Stack on AWS.
* Migrated the production SQL server schema to the new AWS RDS Aurora instance. Wrote SQL queries and worked on administration for optimizing and increasing the performance of database.
* Installed and administered Docker and worked with Docker for convenient environment setup for development and testing.
* Managing the OpenShift cluster that includes scaling up and down the AWS app nodes.
* Implemented deployments into AWS EC2 instance using Terraform and managed, maintained added plugins to support new functionalities of Terraform
* Developing Docker images to support Development and Testing Teams and their pipelines; distributed Jenkins, Selenium and JMeter images, and Elastic search, Kibana and Log stash (ELK & EFK) etc.
* Terraform Enterprise was used to coordinate with other teams on modifications to the infrastructure and to manage the lifecycle of the infrastructure code.
* Experienced in designing and implementing cloud infrastructure to support CDN systems, including cloud computing platforms such as AWS, GCP, or Azure.
* The deployment model uses Atlassian development repository tools, Jenkins as the build engine, while execution deployments to container orchestration tools ranged over time from OpenShift on EC2, AWS.
* Setup full CI/CD pipelines so that each commit a developer makes will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
* Developed Scripts for AWS Orchestration using EC2, EBS, S3, Cloud Formation and IAM.
* Successfully migrated on-premises servers to AWS cloud infrastructure using AWS Server Migration Service (SMS) and/or AWS Migration Hub.
* Develop/capture/document architectural best practices for building systems on AWS.
* Experience in using Azure migration tools like Azure Migrate, Azure Site Recovery, and Azure Database Migration Service, as well as third-party migration tools like Cloudamize and Carbonite.
* Installed Docker Registry for local upload and download of Docker images and even from Docker hub.
* Worked on the Docker ecosystem with a bunch of open-source tool like Docker machine, Docker Compose.
* Helped individual teams to set up their repositories in GitHub and maintain their code and help them setting up jobs which can make use of CI/CD environment.
* Using Terraform to build and implement secure infrastructure in collaboration with security teams, including network segmentation, secure access controls, and encryption of sensitive data.
* Spearheaded hands-on Terraform coding for infrastructure provisioning, ensuring consistency and efficiency in the deployment of cloud resources.
* Implemented and maintained Infrastructure as Code (IaC) practices, optimizing cloud infrastructure with version-controlled Terraform scripts.
* Demonstrated solid expertise in Kubernetes, with a preference for hands-on experience in Google Kubernetes Engine (GKE).
* Orchestrated containerized applications effectively within Kubernetes clusters, enhancing scalability and maintainability.
* Utilized Splunk for log management and analysis, ensuring comprehensive monitoring and troubleshooting capabilities.
* Integrated Splunk with various components of the infrastructure, enabling real-time insights into application and system performance.
* Orchestrated complex release processes using Harness, coordinating multiple microservices and dependencies.
* Improved release visibility and reduced errors by implementing automated rollback strategies.
* Integrated monitoring solutions into Harness to track application performance during deployments.
* Led successful database migration initiatives, ensuring seamless transitions with minimal downtime.
* Collaborated with database administrators to develop and execute migration plans, optimizing database performance post-migration.
* Employed Docker for containerization, packaging applications and their dependencies for consistent deployment across different environments.
* Ensured Dockerized applications function seamlessly within Kubernetes clusters.
* Established effective notification channels for timely alerts and updates, streamlining communication between applications, infrastructure, and security teams.
* Navigated seamlessly between applications and infrastructure, troubleshooting issues promptly to minimize downtime and enhance system reliability.
* Collaborated with cross-functional teams, including infrastructure and security, to facilitate smooth communication and issue resolution.
* Actively participated in incident response, contributing technical expertise to resolve issues efficiently.
* Configured AWS IAM policies for user’s roles using JSON and adding project users to the AWS account with Multi-Factor authentication enabled and to protect data at transit used Transport Layer Security Protocol.
* Managing and optimize the Continuous Integration using Jenkins, Bamboo and troubleshoot the deployment build issues using the trigged logs.
* Data Profiling, Mapping and Integration from multiple sources to AWS S3/RDS/Redshift.
* Created a Python process hosted on Elastic Beanstalk to load the Redshift database daily from several source
* Provide technical consultation and delivery services to customers for CI/CD and DevOps initiatives.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline, code quality tracking and user management with build tools Maven.
* Skilled in automating CDN configurations and deployments using automation tools such as Terraform, Ansible and Jenkins.
* Worked on OpenShift platform in managing Docker containers and Kubernetes Clusters and Created Kubernetes clusters using ansible playbooks (launch-instant deploy-docker.yml, deploy-kubernetes.yml) on Exoscale.
* Application onboarding and maintenance on the CI/CD platform.
* Coded various Perl/Shell scripts to automate backup and recovery.

**Environment:** AWS**,** OpenStack, Docker, Jenkins, Linux, RHEL, Satellite, Splunk OpenShift, Artifactory, GitHub, Kubernetes, Ansible, Redshift, Nagios, Ruby, Python, PowerShell, Ubuntu, Cloud Formation, Terraform, Nginx.

**Azure DevOps Engineer**

**Clairvoyantsoft, Dallas, TX / July 2020 to Dec 2021**

**Responsibilities:**

* Hands-on Experience in creating Azure Key Vaults to hold Certificates and Secrets, designing Inbound and Outbound traffic rules, and linking them with Subnets and Network Interfaces to filter traffic to and from Azure Resources.
* Well-versed in automating Infrastructure using Azure CLI, monitoring and troubleshooting Azure resources with Azure App Insights, and accessing subscriptions with PowerShell.
* Configured and maintained Azure Storage Firewalls and Virtual Networks, which use virtual Network Service Endpoints to allow administrators to define network rules that only allow traffic from specific V-Nets and subnets, so creating a secure network border for their data.
* Implemented and provided Single Sign-On (SSO) access to users using Software as Service (SAAS) applications such as Dropbox, Slack, and Salesforce.com using Azure Active Directory (AAD) in Microsoft Azure.
* Performed Azure Scalability configuration that sets up a group of Virtual Machines (VMs) and configures Azure Availability and Azure Scalability to provide High Application Availability and can automatically increase or decrease in response to demand.
* Used Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal using template-driven deployment options such as Azure Resource Manager (ARM) templates and terraform.
* Performed the migration of large data sets to Databricks (Spark), create and administer cluster, load data, configure data pipelines, loading data from ADLS Gen2 to Databricks using ADF pipelines.
* Created various pipelines to load the data from Azure data lake into Staging SQLDB and followed by to Azure SQL DB
* Created Databrick notebooks to streamline and curate the data for various business use cases and mounted blob storage on Databrick.
* Skilled in analyzing CDN analytics and usage data, monitoring CDN performance, and conducting CDN performance optimization.
* Utilized Harness for Infrastructure as Code (IaC), managing and provisioning infrastructure resources efficiently.
* Implemented version control for infrastructure changes, enhancing traceability and rollback capabilities.
* Utilized Azure Logic Apps to build workflows to schedule and automate batch jobs by integrating apps, ADF pipelines, and other services like HTTP requests, email triggers etc.
* Worked extensively on Azure data factory including data transformations, Integration Runtimes, Azure Key Vaults, Triggers and migrating data factory pipelines to higher environments using ARM Templates.
* Ingested data in mini-batches and performs RDD transformations on those mini-batches of data by using Spark Streaming to perform streaming analytics in Data bricks.
* Worked on Docker and Ansible in build automation pipeline and Continuous Deployment of code using Jenkins and wrote Playbooks to automate Ansible servers using YAML scripting and Developed an Ansible role for Zabbix -agent which will be integrated into the to the CICD pipeline.
* Experience in managing Chocolatey repositories, including setting up and configuring both internal and public Chocolatey feeds
* Used Azure Kubernetes Service (AKS) for Implementing Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods, and managed them.
* Developed continuous integration and deployment pipelines that automated builds and deployments to many environments using VSTS/TFS in the Azure DevOps Project.
* Focused on using Terraform Templates to automate Azure IAAS VMs and delivering Virtual Machine Scale Sets (VMSS) in a production environment using Terraform Modules.
* Involved in creating Jenkins pipelines to drive all micro services builds out to the Docker images and stores in Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes and also performed Jenkins jobs for deploying using Ansible playbooks and Bitbucket.
* Expertise managing instances using OpenShift and having a large number of containers.
* Configured applications that run multi-container Docker applications by utilizing the Docker-Compose tool which uses a file configured in YAML format. Used Kubernetes to manage containerized applications using its nodes, Config-Maps, selector, Services and deployed application containers as Pods.
* Designing global or multi-regional deployment models and patterns for large-scale developments and deployments on Cloud Foundry, OpenShift, and Kubernetes is a skill. Understanding of the architecture and design of Kubernetes.
* Involved in integrating Docker container-based test infrastructure into the Jenkins CI test flow and setting up a build environment integrating with GIT and JIRA to trigger builds using Web Hooks and Slave Machines.
* Splunk experience includes installing, setting, and troubleshooting the software, and monitoring server application logs with Splunk to detect production issues.
* Handled integrating JIRA with GIT repositories to track all code changes and implemented Azure Boards to track all issues relevant to the software development lifecycle.

**Environment:** Azure, Azure-DevOps, Jenkins, Web logic, Nexus, JIRA, Ansible, Terraform, Prometheus, Python, Maven, Java, Azure Boards, GitHub, Linux, ELK, CI/CD, GIT, LDAP, NFS, NAS, MS Share point, Windows, Grafana, Shell Scripts, Ansible, OpenStack, Docker, Kubernetes.

**DevOps Engineer.**

**National Grid, Waltham, MA / Jan 2019 to June 2020**

**Responsibilities:**

* Worked on many different concepts of Chef like Roles, Environments, Data Bags, Knife, and Chef Server Admin/Organizations. Written Chef Recipes to automate build/deployment process and data bags in Chef for better environment management.
* Written Chef Cookbooks for various DB configurations to modularize and optimize product configuration, converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub. Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing Docker Images to the Nexus Repository.
* Experience with Red Hat Linux kernel, memory upgrades and swaps area. Red Hat Linux Kick-start. Installation Sun Solaris Jumpstart Installation. Configuring DNS, DHCP, NIS, NFS & other Network Services.
* Provided highly durable and available data by using S3 data store, versioning, and lifecycle policies.
* Worked on container-based deployments using Docker, and clustering them within OpenShift.
* Worked with Knife command line tool for creating Recipes, Cookbooks and worked with chef supermarket.
* Implemented Docker-Maven plugin and Maven POM to build Docker Images for all Microservices and later used Docker file to build the Docker Images from the java jar files.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline, code quality tracking and user management with build tools Maven and Ant and written Maven pom.xml build script.
* Installed, Configured, and Managed Monitoring Tools such as Nagios for Resource Monitoring/ Network Monitoring.

**Environment:** AWS (EC2), S3, Route 53, EBS, Security Group, OpenShift, Auto Scaling, and RDS), GIT, Chef, Docker, SonarQube, Maven, Python, Nagios.

**DevOps Engineer.**

**General Motors – Detroit, MI, USA / May 2017 to Dec 2018**

**Responsibilities:**

* Creating fully automated build and deployment infrastructure and processes for multiple projects.
* Developing scripts for build, deployment, maintenance and related tasks.
* Design and implement solutions for monitoring, scaling, performance improvement and configuration management
* Provide timely resolution to MQ software related problems and performance issues
* Develop scripting to automate common system tasks/actions, alerts and problem tickets
* Develop wellness health check scripts, processes, and procedures
* Conduct Production Readiness Inspections of change events, assessing impacts and risks
* Provide technical recommendations involving the DB2 environments and tools upon request
* Monitor system resources, make tuning recommendations and created monitoring metrics and dashboards using enterprise tools.
* Worked on design, development, testing and implementation of Stratus batch applications to Update/Insert/Load various transactional DB2 tables.
* Analyzing existing data model and made appropriate changes to make it compatible with business requirements.
* Involved in the Implementation of the project and have to support for Production issues after implementation of the project.

**Environment:** UNIX, MQ, Stratus COBOL, GIT, File System, Forms, Macros, JCL, DB2, Teradata.

**Linux System Administrator**

**Meijer, Michigan / Nov 2013 to Dec 2016**

**Responsibilities:**

* Responsible for Software and application package administration and troubleshooting at user level and deployment management.
* Performed upgrades of Packages and Patches in Linux.
* Configuring Red hat Linux Servers with Jumpstart and kick start and resolving production issues/tickets by using ticketing tool.
* Responsible for creating and maintaining Git branches and tagging activities.
* Responsible for daily tasks such as user setup, group setup, install and upgrading new machines on RHEL.
* Manage all CM tools (SVN, Maven, Jenkins, Git, and GitHub) and their usage process ensuring traceability, repeatability, quality, and support.
* Patch Management, Package management, RPM, User administration.
* Written Chef Recipes to automate our build/deployment process and do an overall process improvement to any manual processes and setting up Chef Infrastructure, Chef-repo and Boot strapping chef nodes.
* Experience with WebLogic, JBOSS, WebSphere, Tomcat application servers and also in creating users, groups, Data Sources, JMS Sources in WebLogic
* Successfully implemented Docker in a project, resulting in improved application performance and streamlined deployment processes
* Troubleshooting and analysis of hardware and software failures for various Solaris servers (core dump and log file analysis).
* Collecting Pre-Migration Data using Shell scripts for Solaris and Linux to handle Server Migration each weekend.
* Performed automated jobs to do patching, saline, FTP, Vulnerability, log rotate, Inventory backup, post build tasks using scripting.
* Actively involved in configuration and deployment of various sets of custom configuration pertaining to Linux/UNIX server security, OS hardening, and maintenance of Baseline standards.

**Environment:** CHEF, RPM, YUM, Selina, NFS Shell & Ruby Script, Networking's DNS, FTP, TCP/IP, HTTP, VMware, Oracle/ Sun Solaris, Windows, ESX host cluster, Apache webserver, Kernel Virtual Machine, Samba, SSH keen tool.

**Linux System Administrator**

**Mavin Infotech Pvt. Ltd, Hyderabad, India. / Oct 2012 to Sep 2013  
Responsibilities:**

* Installed the latest patches for, Oracle on Red hat Linux servers, Configured and administered Send mail, Samba, Squid servers in Linux environment
* Set up the Linux Cron Jobs for automating various build related jobs and application data synchronization jobs.
* Responsible for building of Linux OS servers using kick start automation application
* Configured Kick start and Jumpstart servers to initiate installation of Red Hat Linux and Solaris on several machines at once and Updated previous LDAP tools to work with version of Ruby Rails.
* Involved in Installing, Configuring and Upgrading of Red Hat Linux AS 4/5, Solaris 9/10 operating systems.
* Performed automated installations of Operating System using kick start for Red Hat Enterprise Linux5/6 and Jumpstart for Solaris 9/10 Linux.
* Administered and supported distributions of Linux, including Linux Enterprise Desktop, SUSE Linux Enterprise Server, Red Hat and Solaris.
* Install, maintain and upgrade Drupal and Word press on LAMP stack and Configured LAMP Stack on Unix/Linux servers and worked on Linux Package installation using RPM and YUM, provisioned system with LVM.
* Developed, customized and build packages on Solaris and rpms on Linux for deployment on various servers through Software Development Life Cycle.

**Environments:** Oracle on Red hat Linux, Samba, Squid, Red Hat Linux AS 4/5, Solaris 9/10, Linux Enterprise Desktop, SUSE Linux Enterprise Server, Red Hat and Solaris, LDAP.