UDAY KUMAR



(DevOps Engineer)

**PROFESSIONAL SUMMARY**

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* Having 12 Years of IT experience with 7 years of strong experience of IT Experience as DevOps

Engineer, Linux administrator and Cloud Management in all phases of SDLC like Analysis,

Design, Development, Deploying, Testing and Maintenance of various web-based applications.

* 7years of Experience in Working with Cloud Platform like Amazon Web Services, Microsoft

Azure and good experience in using various services like AWS EC2, VPC, S3, IAM, Security

Groups Route53, Elastic Load Balancers, Auto Scaling, Cloud Formation, Cloud Front, SNS,

Cloud Trail.

* Experienced in branching, Merging, Labeling/Tagging, Integrating and maintaining the versions across the environments using SCM tools like SVN, CVS, GIT on Linux and windows platforms.
* Strong Hands-on development and configuration experience with software provisioning tools

like Chef, Puppet.

* Written Templates for AWS infrastructure as a code using Terraform to build staging and
* production environments.
* Terraform for automating VPCs, ELBs, Security groups, S3 buckets and continuing to replace

the rest of our infrastructure.

* Setting up databases in AWS using RDS, storage using S3 bucket and configuring instance

backups to S3 bucket.

* Working with the ELK (Elastic Search, Logstash, Kibana) stack to analyze and monitor log

Data.

* Solid Experience on Virtualization Server tools like VMware, vSphere.
* Hands on experience on Backup and restore Azure services and in Design and configure Azure

Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS

settings, security policies and routing. Azure cloud services, Blob storage, Active directory,

Azure Service Bus, Cosmos DB.

* Expertise in Azure Scalability and Azure Availability - Build VMs availability sets using the

Azure portal to provide resiliency for IaaS based solution and Virtual Machine Scale Sets

(VMSS) using Azure Resource Manager (ARM) to manage network traffic.

* Solid experience in Cloud Computing services (IAAS, PAAS, SAAS)
* Experience in writing scripts in Python, Ruby, Perl, Shell, Bash, PowerShell to automate

deployments.

* Extensively experienced in using Build Automation tools like ANT, Maven, and working

experience on other build tools like make file.

* Deep understanding of the principles and best practices of Scrum, Agile, Kanban, Waterfall

methodologies and Software Configuration Management (SCM).

* Experience working on Docker hub, creating Docker images and handling multiple images

primarily for middleware installations and domain configuration.

* Profoundly did Continuous integration using Jenkins, Anthill pro, Team city and Bamboo,

which requires developers to integrate code into a shared repository several times a day.

* Extensive experience on design and implementation of CI-CD (Continuous Integration and

Continuous Delivery) Pipeline using tools like Jenkins, Travis, TeamCity, TFS, GIT and Release

Management.

* Hands on experience with NoSQL, SQL, MongoDB, Cassandra and DynamoDB databases.
* Created and deployed the running instances of the Webservers, NFS Servers and Database

Servers Using Ansible as a Configuration Management tool.

* Solid understanding of fundamental technologies like DNS, Load Balancing, SSL, TCP/IP,

Networking and security best practices.

* Strong experience in LINUX / UNIX environments and Shell scripting for System
* Administration tasks like installation, configuration, operations and maintenance of

hardware and software related infrastructure.

* Experienced in Administration of Production, Development and Test environments carrying

different operating system platforms like Ubuntu, Red Hat Linux, Centos, Unix and Windows.

# CERTIFICATIONS

* Certified Kubernetes Administrator
* Microsoft Certified Azure Administrator

# EDUCATION DEATILS

* Bachelor’s in computers science and Engineering from [Jawaharlal Nehru Technological University Hyderabad, India.](https://jntuh.ac.in/)

# TECHNICAL SKILLS

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| **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. |
| **Logging** | Cloud Watch, Cloud Trail, Azure App Insights, Azure Monitor |
| **Container Platforms** | Docker, Kubernetes, Open Shift. |
| **Monitoring Tools** | Nagios, Splunk. |
| **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), Service Bus, Azure Container Registry (ACR) and Azure Kubernetes service (AKS),  Azure SQL, Azure Cosmos DB. |
| **Version Control Tools** | GIT, Bit Bucket. |

**EMPLOYMENT HISTORY**

***CLIENT***: ***E-OSCAR (Online Data Exchange LLC),* HERDON, VA *JUNE 2021 TO PRESENT ROLE***: ***AWS DEVOPS ENGINEER***

***RESPONSIBILITIES***:

* Created AWS Launch configurations based on customized AMI and use this launch configuration to configure auto scaling groups and Implemented AWS solutions using EC2, S3, RDS, DynamoDB, Route53, EBS, Elastic Load Balancer, Auto scaling groups.
* Reviewing and assessing current infrastructure to be migrated to the AWS cloud platform.
* Configured AWS IAM and Security Group in Public and Private Subnets in VPC
* Worked with IAM service creating new IAM users & groups, defining roles and policies and Identity providers.
* Created AWS Route53 to route traffic between different region Involved in reviewing and assessing current infrastructure to be migrated to the AWS cloud platform.
* Responsible to maintain the networking form cloud back to On-Prem connectivity and no direct internet access from cloud VPC to the Internet.
* 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.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our SIT, UAT, Prod and DR environments as well as infrastructure servers for GIT and Puppet.
* Experience in Setting up the build and deployment automation for Terraform scripts using Jenkins.
* Provisioned the highly available EC2 Instances using Terraform and cloud formation and wrote new plugins to support new functionality in Terraform.
* Using Terraform migrate legacy and monolithic systems to Amazon Web Services.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using chef. Collaborate in the automation of AWS infrastructure via Terraform and Jenkins - software and services configuration via chef cookbooks.
* Development of several Python APIs and harassers that works both in Linux and windows and maintaining them using the revision control SVN.
* Development of Python APIs to dump the array structures in the Processor at the failure point for debugging.
* Knowledge of Chef and Puppet as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change. Manage deployment automation using Puppet, MCollective, Heir, Custom Puppet modules, Ruby.
* Designing and building multi-terabyte, full end-to-end Data Warehouse infrastructure from the ground up on Confidential Redshift for large scale data handling Millions of records every day.
* Implementing and Managing ETL solutions and automating operational processes.
* Optimizing and tuning the Redshift environment, enabling queries to perform up to 100x faster for Tableau and SAS Visual Analytics
* Experienced in extract transform and load (ETL) processing large datasets of different forms including structured, semi-structured and unstructured data.
* Wrote various data normalization jobs for new data ingested into Redshift.
* Advanced knowledge on Confidential Redshift and MPP database concepts.
* Performance monitoring, tuning and troubleshooting WebSphere, WebLogic, JBOSS, Tomcat and Apache server instances.
* Experience on complete software development life cycle (SDLC) with software development models like Jira, Agile Scrum Model, Prototype model & RUP, Waterfall model.
* Secured JBOSS EAP 6 by configuring security domains, security realms, and LDAP authentication Actively worked on DR exercise and brought up applications successfully during DR exercise.
* Installation & Configuration of Apache Webserver and make junction works for the transportation of application through a Webserver.

***CLIENT***: ***STATE OF MINE ,* BOSTON, MA *SEP 2019 TO MAY 2021***

***ROLE***: ***AZURE DEVOPS ENGINEER RESPONSIBILITIES***:

* Extended working knowledge in cloud service, IaaS& pass services, worker role, service bus, queue, azure blob storages and API Management. Configured NSGs for two tier and three tier applications. Experience in integrating on premises servers to Azure. Configured VNETs and subnets as per the project requirement. Configure Azure blob storage and Azure file servers. Configured private and public facing Azure load balancers etc.
* Process and Implementation - Extensive experience implementing software throughout the SDLC process, deep hands-on experience of networking, migration, and implementation in Azure.
* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Worked with Terraform Templates to automate the Azure Iaas virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* Used Azure Kubernetes Service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and terraform.
* Deployed the services to AKS. Created CICD pipelines with azure DevOps Deployed Services into Kubernetes Using Helm Charts
* Created Ansible cloud modules for interacting with Azure services which provides the tools to easily create and orchestrate infrastructure on Azure and automated cloud-native applications in Azure using Azure microservices such as Azure functions and Kubernetes on Azure.
* Using Terraform and Ansible, migrate legacy and monolithic systems to Azure and managing Ubuntu and RHEL virtual servers on Azure by creating Ansible Nodes.
* Created a Nagios instance to help monitor the production provider portal which gave business deep insight into the overall health of the production environment.
* Worked on Power Shell scripts to automate the Azure cloud system creation of Resource groups, Web Applications, Azure Storage Blobs & Tables, firewall rules.
* Experience troubleshooting skills in a Windows 2012 environment - Event log analysis, installation, and administration of Windows Server 2012, including user setup and defining roles, performance tuning, backup and restore, security monitoring, registry for the Application Specific Servers.
* Creation and setting up migration from Gitlab to GitHub Enterprise.
* Creation of the Jenkins Continuous Integration process for Drupal 8 with GitHub Enterprise.
* Expertise in writing MAVEN/ANT scripts for automation of build and deployment. Maintain a Live Like environment to test any production issues on the setup and push it into production.
* Installed, tested, and deployed monitoring solutions with Splunk services.

***CLIENT***: ***NBC UNIVERSAL,* ENGLE WOOD CLIFFS, NJ *JAN 2018 TO AUG 2019***

***ROLE***: ***DEVOPS ENGINEER RESPONSIBILITIES***:

* Worked on various Azure services like Compute (Web Roles, Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling, Auto Scaling, and PowerShell Automation.
* Building and Installing servers through Azure Resource Manager Templates or Azure Portal. Migrating an On- premises virtual machine to Azure Resource Manager Subscription with Azure Site Recovery.
* Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Portal. Manage the Windows Azure infrastructure for our customers depends on their requirement.
* Responsible for designing and deploying best SCM processes and procedures with Subversion (SVN), Bitbucket, GitHub, Git & eclipse.
* Experience executing the CI Jenkins build job for both Android and iOS application builds. Using GIT (Stash) tool as the source code repositories for all projects and Artifactory for all builds (IPA/APK) release repository
* Wrote Maven and Gradle Scripts to automate the build process. Developed build workflows using Gradle, Gitlab- CI, Docker and OpenShift.
* Use of Docker and Kubernetes to manage micro services for development of continuous integration and continuous delivery. Environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions.
* Implemented Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions.
* Created a Continuous Delivery process to include support building of Docker Images and publish into a private repository- Nexus v3. Used CI/CD tools Jenkins, Git/Gitlabs, Jira and Docker registry/daemon for configuration management and automation using Ansible. Created Containers in Docker
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change. Used Ansible Playbooks to setup Continuous Delivery Pipeline. Deployed micro services, including provisioning Azure environments using Ansible Playbooks.
* Experience in UNIX shell scripting and configuring Cron jobs for Informatica job scheduling, backup of repository and folder.
* Installation of patches and packages using RPM and YUM in Red hat Linux. Installed and configured SAMBA server for Windows and Linux connectivity. Creation of Logical volumes (LVM) for Linux operating systems. Worked with DBA team for database performance issues, network related issues on Linux Servers.

***CLIENT***: ***CAPGEMINI*, HYDERABAD, INDIA *SEP 2016 TO DEC 2017 ROLE***: ***CLOUD*** / ***DEVOPS ENGINEER***

***RESPONSIBILITIES***:

* Created and Managed automation framework for migration of servers and applications to Cloud Platform
* Worked on AWS API Gateway for custom domain and Record sets in Amazon Route53 for applications hosted in AWS Environment. Extensive experience focusing on services like VPC, EBS, AMI, IAM, S3, Cloudwatch, SNS, SQS, Amazon Glacier, Cloud Trail, Cloud Formation.
* Maintained the user accounts IAM Roles, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
* Written Templates for AWS infrastructure as a code using TERRAFORM and CLOUDFORMATION to build staging and production environments.
* Involved in migration of databases from on premise to AWS RDS, Migrated the MySQL and MsSQL database servers using Database migration service in AWS.
* Expertise in creating and customizing Splunk applications, searches, and dashboards as desired by IT teams and business.
* Hands-on experience Kubernetes to automate the deployment, scaling, and operations of application containers across clusters of hosts.
* Managing Identity Access management of Azure Subscriptions, Azure AD, Azure AD Application Proxy, Azure AD Connect, and Azure AD Pass Through.
* Worked on managing infrastructure provisioning, S3, ELB, EC2, RDS, Route 53, Security Groups (VPC, NAT) and deployment via SCALR and EC2 Installation with CentOS, Ubuntu and Linux.
* Deployed and configured JIRA, both hosted and local instances for issue tracking, workflow collaboration, and tool-chain automation
* Responsible for migrating existing modules in IBM MQ to Apache Kafka and worked on creating Kafka adaptors for decoupling the application dependency
* Worked on the Docker ecosystem, which includes Docker machine, Docker Compose, Docker Swarm and monitored containers using Prometheus tool.
* Implementing new projects builds framework using Jenkins & maven as build framework tools and Integrated Docker build as a part of Continuous Integration process and deployed local Registry server.
* Strong use of Shell/Ruby scripting languages including BASH for Linux and PowerShell for Windows systems.
* Managing batch jobs in Unix for data automated import/export of data and system automation programming using Perl, Bash, Shell, Ruby scripting and automated log backup using Python Boto3 API

***CLIENT***: ***CAPGEMINI*, HYDERABAD, INDIA  *2014 APR TO AUG 2016 ROLE***: ***SAP BASIS CONSULTANT***

***RESPONSIBILITIES***:

* Monitoring HANA DB and Performance tuning/analysis.
* HANA Back up & Recovery.
* SLT Installation/configuration.
* Hana log backup and data backup administration.
* SAP HANA replication setup.
* System performance analysis, Background job administration
* Client Administration: Local / Remote Client Copy and Client Export-Import.
* Applying SAP Notes/License/ Printer administration/OSS handling
* SAP products with New Dimensional products exposure (XI/PI, EP, BW, SRM).
* Good working knowledge of UNIX, HANA, Oracle database, SQL DB, DB2.
* Application of Support Packages, Kernel Patches, OSS Notes
* Managing TMS like setting up TMS, including systems to domains, creating transport route,
* importing TPs from development to quality and production.
* Worked in R/3 Security (creating users, locking, and unlocking users, assigning authorizations
* to users).
* EWA report analysis and implementation of recommendations.
* Exposure to Debugging, ABAP dump analysis, System log, update errors etc.
* Experience in handling config tool, visual admin tool and UME
* Configuration of SSO.
* Planning of production and preproduction changes, prepare Roadmap for the activities.
* Manage system configuration & technical monitoring setup using Solman.
* External Interface connection creation - RFCs, ALE/IDOC,
* Background administration like scheduling background jobs and analyzing jobs.
* Working experience on daily Incidents.

***CLIENT: ITC INFOTECH*** – **KOLKATA, INDIA.** ***MAY 2011 TO MAR 2014 ROLE: ASSOCIATE SAP CONSULTANT***

***RESPONSIBILITIES***:

* Monitoring applications, if any of the application is in offline state working on it and make

them too online.

* Monitoring status of the work process, analyzing and killing long running work process with

user approval.

* Analyzing system logs and ABAP dumps and followed its recommendation • to fix the issues.
* Monitoring update records.
* Working on file system issues and performing housekeeping for respective volume.
* Releasing long time locked entries by user approval and monitoring r/3 locks.
* Defining and monitoring background jobs and troubleshooting the Background jobs.
* Experienced in profile management.
* Adding and adjusting the parameters based on the requirements according to recommended

values in Sap Notes.

* Monitoring and troubleshooting the system Performance issues
* Applying the Sap Notes based on the requirement.
* Import the Transport requests into Quality and Production Systems based on requirement.
* Worked in R/3 Security (creating users, locking, and unlocking users, assigning authorizations

to users).

* Client Administration like creation of clients, deletion of clients, Client Copy.
* Resolved Basis Related issues (performance related issues, User issues, transport issues,

background issues).

* Worked extensively on SAP Support Project.
* Worked on 24/7 on-call support.