



SADMAN SANID TANIM

DEVOPS ENGINEER

PROFILE

Principal DevOps Engineer with over 5 years of experience, specializing in automation, virtualization, cloud infrastructure, and software module development. With a solid foundation in VMware virtualization and extensive hands-on experience with AWS, Terraform, Jenkins, Python, Zabbix and PowerShell, I have successfully led the design and implementation of scalable infrastructure solutions. My early experience in software development, including building enterprise-level applications and systems for asset tracking, procurement, and financial operations, has provided me with a deep understanding of system architecture and lifecycle management. This combined with my expertise in VMware virtualization and managing 50+ VMs across ESXi hosts, has significantly enhanced my DevOps role. I am passionate about driving automation, optimizing infrastructure, and mentoring teams to deliver high-quality solutions that ensure operational excellence and business growth.

WORK EXPERIENCE

Startsmartz Technologies

2025 JAN - PRESENT

Lead DevOps Engineer

Designed and implemented multiple automation pipelines and infrastructure solutions that significantly enhanced operational efficiency, reduced manual effort, and improved scalability across various environments. My work has spanned the full DevOps lifecycle using tools like AWS, Terraform, Jenkins, Ansible, Python, PowerShell and Zabbix, supporting production, staging, and development environments.

Key Responsibilities and Achievements:

ECS Zero Task: Designed ECS architecture with zero tasks by default, auto-scaling based on SQS queue depth using AWS Lambda, CloudWatch, ECS Step Scaling, and

task protection. Implemented with Terraform and Jenkins.

Automated EC2 Instance Provisioning: Created Jenkins pipelines with Groovy, Terraform, and Ansible to automate EC2 provisioning, including AMI ID and region input, followed by software installation by Ansible.

AWS CloudFront Function: Designed and implemented an AWS CloudFront function to control access based on HTTP headers (Referer, request-origin). Blocks unauthorized requests with a 403 Forbidden response and logs client IPs for audit purposes.

ECS Deployment via Terraform and Jenkins: Automated ECS deployments with fully parameterized Terraform modules and Jenkins pipelines with dynamic tfvars management.

Private Network Architecture: Currently building private networks with endpoints using VPC peering and Private Link to enable internal access to AWS resources, improving performance, efficiency, reducing costs and enhanced security.

DevOps Daily Checklist Automation: Replaced manual checklist tasks with a Python script, tracking 94 tasks (logs, S3 sync, backups, tool/service status) by securely fetching credentials from Jenkins Vault and sending status email reports to the team.

Jenkins-Based Server Management: Automated server shutdown/startup sent alerts for unused resources with integrated PowerShell/Python scripts for custom workflows and notifications.

AWS RDS Management: Managed AWS RDS instances, including creation, auto-backups, patch updates, and restores. Created an AWS Lambda function for a client to take MySQL Community RDS backups using mysqldump, storing the .sql file in S3 after execution.

CONTACT

01707254127

sadmantanim65@gmail.com

Uttra, Dhaka- Bangladesh

<https://www.linkedin.com/in/sadman-sanid-077577265/>

EDUCATION



- B.Sc. in Computer Science and Engineering
- CGPA: 3.70
- Major in Software Engineering

CORE - COMPETENCY:

IAC-
TERRAFORM: ECS DEPLOYMENT, EC2 PROVISIONING, ECS ZERO TASK IMPLEMENTATION
JENKINS PIPELINES (GROOVY): INTEGRATED WITH TERRAFORM AND PYTHON FOR AUTOMATION
KEY SKILLS: PARAMETERIZED INFRASTRUCTURE MODULES
TFVARS MANAGEMENT
CI/CD AUTOMATION
JENKINS: AUTOMATED PIPELINES FOR EC2, ECS, AMI, BACKUPS, SERVER ACTIONS
GROOVY: JENKINS FILE SCRIPTING
SHELL, POWERSHELL, PYTHON: PIPELINE LOGIC AND SCRIPTING
KEY SKILLS: ON-DEMAND ENVIRONMENT REFRESH
AUTOMATED SOFTWARE INSTALLATION POST-PROVISIONING
CERTIFICATE RENEWAL
INTEGRATION WITH DNS (ROUTE 53)
CLOUD PLATFORMS & SERVICES (AWS)
EC2, ECS (FARGATE): AUTO-SCALING, ZERO-TASK SETUPS
S3, RDS, REDSHIFT: BACKUP, RESTORE, SQL DUMPS, SNAPSHOT MANAGEMENT, LAMBDA, CLOUDWATCH, IAM, ROUTE 53, CLOUDFRONT FUNCTIONS.

TECHNOLOGIES & TOOLS:
CLOUD / VIRTUALIZATION: AWS
(EC2, ECS, S3,
LAMBDA, ROUTE 53, ECS, RDS,
REDSHIFT, CLOUD
WATCH, ROUTE 53, CLOUD
FRONT, CLOUD TRAIL),
AZURE, VMWARE VSPHERE (ESXI,
VCENTER)
INFRASTRUCTURE AS CODE:
TERRAFORM, ANSIBLE
CONTAINERIZATION: AWS
ELASTIC CONTAINER
SERVICE – ECS, DOCKER
OS: WINDOWS (SERVER CLIENT
98,
XP, 7, 10/11), LINUX (FEDORA,
REDHAT) AUTOMATION USING
PYTHON,
JENKINS, SHELL SCRIPTING

KEY SKILLS:

SERVERLESS ARCHITECTURE
(SQS-TRIGGERED
LAMBDA) ACCESS CONTROL VIA
CLOUDFRONT AND IAM
CROSS-REGION AMI
OPERATIONS CUSTOM BACKUP
SOLUTIONS AND AUDITS
CONFIGURATION MANAGEMENT
& PROVISIONING
ANSIBLE: EC2 CONFIGURATION
AND SOFTWARE PROVISIONING
WINDOWS GPO: APPLICATION
AND HARDWARE CONTROL
POLICIES.
AUTOMATED INFRASTRUCTURE
POST-PROVISIONING
SETUP SERVER CONFIGURATION
COMPLIANCE
SECURE REMOTE ACCESS &
DATABASE SETUP
OPENVPN SETUP ON ROCKY
LINUX: CONFIGURED
SECURE POINT-TO-POINT
TUNNELS WITH ROUTED
AND BRIDGED VPN
CONFIGURATIONS. MANAGED
USER CERTIFICATES, PKI SETUP,
AND FIREWALL
(IPTABLES) INTEGRATION FOR
ACCESS CONTROL.
MONGODB SERVER SETUP ON
ROCKY LINUX: INSTALLED
AND CONFIGURED STANDALONE
AND REPLICA SET MONGODB
SERVERS WITH TLS ENCRYPTION,
AUTHENTICATION,
CUSTOM BACKUP ROUTINES,
AND PERFORMANCE TUNING.
MONITORING, LOGGING &
ALERTING
ZABBIX (SERVER & PROXY) BUILT
FROM ROCKY LINUX,
CONFIGURED MYSQL BACKEND
CUSTOM TRIGGERS &
TEMPLATES: CREATED ITEM
PROTOTYPES, LLD AND JSON-
BASED EXTERNAL CHECKS,
TRIGGERS FOR EC2
PERFORMANCE, S3 SYNC
FAILURES,
BACKUP STATUSES, AND APP
SERVICE FAILURES.
INTEGRATED WITH AWS
CLOUDWATCH LOGS AND
LAMBDA FOR HYBRID VISIBILITY.
KEY SKILLS: DISK/MEMORY/CPU
THRESHOLDS,
SERVICE AVAILABILITY CHECKS
AUTOMATION & SCRIPTING
LANGUAGES USED: PYTHON,
POWERSHELL, SHELL, GROOVY
KEY USE CASES: DEVOPS
CHECKLISTS
MSSQL/MONGODB RESTORES.

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script, tracking 94 tasks (logs, S3 sync, backups, tool/service status) by securely fetching credentials from Jenkins Vault and sending status email reports to the team.

Jenkins-Based Server Management: Automated server shutdown/startup sent alerts for unused resources with integrated PowerShell/Python scripts for custom workflows and notifications.

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Amazon Redshift: Led creation, maintenance, auto-backups, and patch updates for

Redshift clusters. Automated non-production cluster shutdowns via Jenkins pipelines.

Managed user and group updates using Redshift Query Editor v2 and restricted access through IP-binding in security groups.

IAM Role Standardization & Permission Boundaries: Implemented standardized IAM

role policies across environments from Mainline to Production. Created an IAM admin

user with a permission boundary allowing it to manage users with specific username prefixes.

Automated Stage & Playground Refresh: Automated the refresh of Stage and Playground environments using PowerShell scripts and Jenkins Groovy. The pipeline

backs up Stage, restores production DB from S3, and syncs binaries from production.

Credentials are securely pulled from Jenkins Vault. Developers can trigger refreshes

on demand, saving 3–4 hours of DevOps effort per cycle.

AMI Management via Jenkins Pipelines: Built Jenkins-integrated Python pipelines to

manage AWS AMIs. One deletes AMIs and their snapshots based on Excel input (AMI

ID, Region). Another copies AMIs across regions. Both pipelines automate cross-region image operations, improving efficiency and control.

Jenkins Monitoring Pipelines: Built Jenkins pipelines to track and alert on after-hours

non-prod server usage, new open security group ports, S3 bucket growth, sudden AWS billing spikes, unused volumes, and orphaned snapshots.

CERTIFICATION:

DEVOPS CERTIFIED
ENGINEER
CCNA COURSE UNDER
AIUB

DEVOPS ENGINEERING
AND KUBERNETES (CKA)

RHCSA REDHAT
CERTIFICATION

CCNA COURSE UNDER
AIUB

LANGUAGES

- English
- Bangla

Key Responsibilities and Achievements:

EC2/AMI Tag Compliance Automation: Automated daily tagging of EC2 and AMIs

using a predefined map for operational consistency and audit readiness.

Automated Production Backup Retrieval: Automated retrieval of the latest production DB backups from S3 for use in downstream testing and staging jobs for

Dev Team.

RC/Mainline Database Restoration: Enabled easy MSSQL and MongoDB restoration

for developers using Groovy, Shell, and Python in Jenkins pipelines.

Zabbix Migration & Monitoring Enhancement: Upgraded Zabbix to the latest version

with dynamic, comprehensive monitoring—covering server health (CPU, memory, disk), scheduled jobs, DB backups, S3 syncs, and EC2 system status. Developed custom triggers to detect missed scheduled tasks. Integrated marketplace and custom templates (e.g., IIS, Windows services) to enrich the monitoring landscape.

Error Handling in Critical Scripts: Enhanced backup and S3 sync scripts with robust

error handling and integrated Zabbix alerting.

Certificate Renewal Automation: Developed Jenkins pipelines using PowerShell to

automate freeware certificate renewals—backing up old certificates, generating new

ones, updating Route 53 DNS for validation, and storing them in Windows Certificate

Manager. Integrated with Zabbix alerts and handed over to support teams, with safeguards to allow renewal only within a defined expiry window.

Virtualization & Infrastructure: Maintained 100+ VMs across 7 ESXi hosts with vCenter; used vRanger Pro for scheduled backups and VMware tools for performance monitoring.

Active Directory & Network Services: Managed AD across domains, used GPO for

app deployment (Adobe, browsers), and implemented VPN access during WFH transition.

Cloud Storage & Access Control: Administered Egnyte (wunderman/adpeople) with

real-time sync and user access controls.

Backup & Sync Solutions: Managed Symantec Backup Exec and SyncBack Pro. Enabled WAN-based real-time sync for InDesign files.

Software Module Development:

BDIT Purchase & Inventory System: ASP.NET + SQL Server system for company-wide asset tracking and procurement.

Invoice & Credit Note System: Web-based ASP.NET app with Crystal Reports for finance operations, AD-secured.

Access Card Integration Module: Linked attendance systems with reporting engines for HR oversight.

PowerShell File Monitoring Scripts: Alert system for deletions/modifications on file shares with automated notifications.

Junior DevOps Engineer - | Feb 2023 - Jan 2025

● Agni System Limited

Implemented system integration & security protocols for enterprise solutions. Configured and managed Linux-based server environments. Optimized IT operations, reducing system downtime by 20%. Deployed and managed a Squid proxy server on Linux to regulate bandwidth usage and filter internet access organization-wide. Built and deployed a Bank Status Module for managing multi-bank financial operations and audit-ready reports, and a Utility Management System for real-time cost and usage tracking across departments. LAN & Server Infrastructure Management. Conducted cross-departmental training programs to improve software adoption, user proficiency, and overall digital literacy within the organization.