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REALTIME PROJECTS PLATFORM



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# 127 Days to The **Cloud DevOps** Mastery

Learn & Build for 80+ Real-World Projects.



- Hands On Training
- Multi-Cloud Experite
- Job-Ready Curriculum



**CareerByteCode**  
Learning Made simple



# 🚀 127 Days to Cloud DevOps Mastery – Your Ultimate Hands-on Study Plan! 🌃🔧

Learn | Build | Automate | Deploy | Scale

Are you ready to transform into a Cloud DevOps Expert? This 127-day step-by-step learning roadmap is designed to take you from zero to mastery with real-world hands-on training. Whether you're an aspiring Cloud Engineer, DevOps Specialist, or Solutions Architect, this plan ensures you gain in-depth knowledge, practical skills, and real-world expertise.

## 🔥 What Makes This Study Plan Unique?

- ✓ Hands-on First Approach – Work on practical scenarios every day
- ✓ Real-World Cloud & DevOps Projects – Build, deploy, and automate like a pro
- ✓ Multi-Cloud Learning – Azure 🌐 | AWS 🌎 | GCP 🔥 | On-Prem 🌐
- ✓ Master DevOps Tools – Terraform, Kubernetes, Ansible, Jenkins, Docker & More
- ✓ CI/CD & Infrastructure as Code (IaC) – Automate everything from scratch
- ✓ Security & Best Practices – Implement IAM, Network Security, and Disaster Recovery

## ◆ Your Learning Journey – Step by Step!

- 📌 Weeks 1-3: Cloud & DevOps Foundations – Master Azure, Linux, Networking, and Virtualization
- 📌 Weeks 4-6: Docker, Kubernetes & Microservices – Learn Containerization, Kubernetes Clusters, AKS & Stateful Applications
- 📌 Weeks 7-9: DevOps Automation – Ansible, CI/CD Pipelines with Jenkins, and Infrastructure as Code with Terraform
- 📌 Weeks 10-13: Multi-Cloud Deployment – AWS, Azure, and GCP with real-world case studies
- 📌 Weeks 14-18: Advanced Kubernetes & Security – Network Policies, RBAC, and Performance Optimization
- 📌 Final Phase: Capstone Project & Interview Prep – Get job-ready with resume building, mock interviews, and certification prep



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## 🏆 Why This Plan is a Game-Changer?

- 💡 Structured Learning Path – Follow a daily plan with no confusion
- ⚡ Real-World Hands-on Projects – Work on real-time DevOps deployment stacks
- 🔧 Practical Labs & Automation – Gain experience in CI/CD, Kubernetes, Ansible, Terraform, and Security Best Practices
- 🚀 Multi-Cloud Expertise – Become proficient in Azure, AWS & GCP
- 🎯 Job-Ready Curriculum – Cover everything needed for DevOps interviews & certifications

This isn't just another training plan—it's your gateway to a high-paying Cloud DevOps career!

⌚ In just 127 days, you'll gain the skills, confidence, and hands-on expertise to thrive in any Cloud & DevOps role.

💻 Start today & accelerate your journey to becoming a Cloud DevOps Expert! 🚀🔥



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## Week 1: Cloud Fundamentals & Azure Mastery ☀️

July 17 Days 1-3: Cloud & Linux Foundations

[Day 1 - Cloud & Linux Mastery](#)

- Understanding Cloud Computing
- Setting up Linux for DevOps
- Hands-on Linux CLI & Automation

July 17 Days 4-6: Cloud Triad - Virtualization, Networking & Serverless 🌐

[Class 2 - Cloud Triad & Azure Basics](#)

- Virtualization & Compute in Azure
- Networking & Subnetting Deep Dive
- Azure Serverless - Functions & Logic Apps

July 17 Days 7-9: Mastering Azure Load Balancers & Traffic Management ⚡

[Class 3 - Load Balancing & Serverless](#)

- Load Balancers & Traffic Manager
- DNS Routing & Failover Strategies
- Hands-on Serverless Scenarios

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## Week 2: Deep Dive into Azure & Docker 🐳

July 17 Days 10-12: Real-World Networking & Docker on Ubuntu 🏠

[Class 4 - Load Balancers, Traffic Routing, & Docker](#)

- Azure Load Balancing Hands-on
- Docker Installation & Ubuntu Setup
- Networking Troubleshooting in Azure

July 17 Days 13-15: Docker & Microservices Revolution 🛡️

[Class 5 - Docker & Microservices](#)

- Understanding Docker Containers
- Building & Running Dockerized Apps
- Microservices vs Monolithic Deployments



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## Week 3: Containerization & Kubernetes Excellence 🚢

July 17 Days 16-18: Docker to Kubernetes - The Next Step 🚶

[Class 6 - Docker & Kubernetes](#)

- Kubernetes Basics - Pods, Nodes, Services
- Transitioning from Docker to Kubernetes
- Hands-on Deployment in Kubernetes

July 17 Days 19-21: Building Scalable Clusters in Azure 🏗️

[Class 7 - Kubernetes on Azure](#)

- Setting Up AKS (Azure Kubernetes Service)
- Deploying Stateful & Stateless Apps
- Autoscaling & High Availability

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## Week 4: Advanced Kubernetes & Ansible Magic 🎩

July 17 Days 22-24: Deep Dive into Pods, Services & DaemonSets 🔧

[Class 8 - Advanced Kubernetes](#)

- Kubernetes Deployment Strategies
- Working with DaemonSets & Init Containers
- Debugging & Troubleshooting Pods

July 17 Days 25-27: Kubernetes & Ansible - Automate Everything 🤖

[Class 9 - Kubernetes + Ansible Automation](#)

- Blue-Green & Canary Deployments
- Ingress Controllers & Multi-Service Management
- Ansible for Kubernetes Automation

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## Week 5: Mastering Ansible for DevOps 🔥

July 17 Days 28-30: Ansible from Zero to Hero 🎓



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[Class 10 - Ansible Basics & Playbooks](#)

- Understanding Configuration Management
- Writing Ansible Playbooks
- Hands-on with YAML & Inventory

**Days 31-33: Ansible Advanced Concepts**

[Class 11 - Logs, Packages & File Management](#)

- Package & Service Management
- Logging & Debugging in Ansible
- File Handling & Automation

**Days 34-36: Ansible Roles & Advanced Playbooks**

[Class 12 - Ansible Roles & Registers](#)

- Role-based Playbooks
- Registers & Variables
- Hands-on with Complex Automation

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## Week 6: DevOps CI/CD & Infrastructure as Code

**Days 37-39: Jenkins for CI/CD**

[Class 14 - Jenkins CI/CD & Tomcat](#)

- Understanding CI/CD Pipelines
- Automating Deployments with Jenkins
- Apache Tomcat Integration

**Days 40-42: Smarter DevOps Pipelines**

[Class 15 - DevOps Pipeline Optimization](#)

- Tool Selection & Pipeline Design
- Slack Alerts & Notifications
- CI/CD Workflow Best Practices

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## Week 7: Terraform - Automate Your Cloud



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 **Days 43-45: Terraform at Scale - Infrastructure as Code** 

 [Class 16 - Terraform Automation](#)

- Terraform Basics & Configuration
- Managing Cloud Infrastructure
- Scaling & Destroying Resources

 **Days 46-48: Terraform on AWS - Real-World Hands-on** 

 [Class 17 - Terraform for AWS](#)

- Automating AWS Infrastructure
- Terraform Modules & Best Practices
- End-to-End Deployment

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**Week 8: Final Project & Certification Ready** 

 **Days 49-51: Capstone Project & Review** 

- Hands-on Real-World Scenario
- Debugging & Troubleshooting
- Resume Building & Interview Prep

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 **Day 52 – VNet-to-VNet Peering Across Multiple Regions**

 [Azure VNet-to-VNet Peering – Complete Realtime Hands-on Guide](#)

 **Connect Azure VNets like a Pro!**

Ever wondered how to securely connect multiple Virtual Networks (VNets) across different Azure regions? This hands-on guide walks you through **VNet-to-VNet peering** with complete real-time implementation. Say goodbye to complex networking struggles and build seamless **cross-region** connectivity with Azure.

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 **Day 53 – Preparing Custom Docker Images for Azure Container Registry**

 [Azure Container Registry – Prepare Custom Docker Image](#)



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### Dockerize & Securely Store in ACR!

Learn to **build, tag, push, and manage** custom Docker images in **Azure Container Registry (ACR)** for a fully automated and scalable containerized environment. Ideal for **Kubernetes, AKS, and Azure App Services** deployments!

---

### Day 54 – Mastering Docker CI/CD with Azure DevOps Pipelines

 [Automate ACR Updates with Azure DevOps](#)

#### CI/CD Automation Like a Pro!

Tired of **manually updating** your container images? Learn how to integrate **Azure DevOps Pipelines** with Azure Container Registry (ACR) to **automatically update Docker images** upon every commit. This ensures **seamless deployment** without downtime!

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### Day 55 – Azure Key Vault for Secrets, Keys, and Certificates

 [Azure Key Vault – Store & Manage Secrets](#)

#### Fortify Your Security Game!

Keep your **secrets, API keys, and certificates** protected with **Azure Key Vault**. This hands-on guide walks you through setting up **secure storage**, managing **access policies**, and integrating Key Vault with your applications.

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### Day 56 – Azure Blob Storage: Raw Data Storage & Access Policies

 [Azure Blob Storage – Configuring Data Access Policies](#)

#### Data Storage Done Right!

Learn how to **store, manage, and secure raw data files** using Azure Blob Storage. Explore **data access policies, SAS tokens, and storage tiers** to optimize performance and cost efficiency.

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## Day 57 – Disaster Recovery Solutions Using Azure VMs

 [Implement Disaster Recovery in Azure](#)

 **Stay Resilient Against Failures!**

Disasters can strike anytime. Be prepared with **Azure Site Recovery (ASR)**! This guide walks you through setting up **Azure VM backups, replication, and failover strategies** to keep your systems running even in critical outages.

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## Day 58 – Jenkins Pipelines with Declarative Syntax

 [Jenkins Pipelines – Hands-on Guide](#)

 **Automate & Accelerate Deployments!**

Learn how to **build robust CI/CD pipelines** in **Jenkins** using **Declarative Syntax**. From writing a **Jenkinsfile** to automating builds, this hands-on guide ensures your DevOps pipeline is efficient and scalable.

---

## Day 59 – Creating & Configuring Azure App Service Using Terraform

 [Azure App – Terraform Deployment](#)

 **IaC + Azure App Services = Automated Deployment!**

Deploying an app manually? Forget it! Learn how to **provision and configure Azure App Services** using **Terraform** for **Infrastructure as Code (IaC)** automation.

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## Day 60 – Managing Cron Jobs and Scheduled Tasks with Ansible

 [Ansible – Manage Cron Jobs](#)

 **17 Automate Recurring Tasks Effortlessly!**

Schedule and manage tasks like a pro using **Ansible Playbooks** for **cron jobs and scheduled tasks** on Linux servers.

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## Day 61 – Setting Up an Ansible Lab Environment

[Configure Ansible Lab Environment](#)

### Get Ready for Enterprise Automation!

Set up an **Ansible lab environment** from scratch and start automating infrastructure with ease.

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## Day 62 – Deploying a Database Server on Azure VM

[Set Up a Database Server](#)

### Database Deployment Simplified!

Learn how to set up a **fully managed database server** on Azure VM with MySQL/PostgreSQL for your applications.

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## Day 63 – Azure VMs Deployment Using Terraform

[Step-by-Step Guide to Creating Azure VMs with Terraform](#)

### Automate Azure VM Deployments with Terraform!

Spin up virtual machines on **Azure using Terraform scripts** for seamless Infrastructure as Code (IaC) automation.

---

## Day 64 – Integrating Jenkins with Azure Pipelines for CI/CD

[Jenkins + Azure Pipelines – Faster Builds](#)

### Unleash CI/CD Power with Jenkins + Azure DevOps!

Learn how to integrate **Jenkins with Azure Pipelines** for **end-to-end automation** of builds and deployments.

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## Day 65 – Deploying Prometheus & Grafana on AKS with Helm & ServiceMonitor

 [Helm + ServiceMonitor: Prometheus & Grafana Deployment](#)

 **Kubernetes Monitoring Done Right!**

Set up **Prometheus & Grafana** on **Azure Kubernetes Service (AKS)** using **Helm & ServiceMonitor** for real-time observability.

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## Day 66 – Set Up a Basic AWS EC2 Instance & Deploy a Web Application

 [Deploy a Web Application on AWS EC2](#)

 **Launch, Configure, and Deploy in Minutes!**

Kickstart your AWS journey by **launching an EC2 instance** and **deploying a web application** step by step. Learn how to set up **security groups**, **install web servers**, and host your first **app** on AWS!

---

## Day 67 – Automating Daily Backups of EC2 Instances to S3 Using Shell Scripting

 [Automate EC2 AMI Backups with Shell Scripting](#)

 **Backup Like a Pro!**

Why back up manually when you can **automate EC2 AMI creation**? This guide shows how to **schedule daily backups** and **store them in S3** using **shell scripting**—saving time and securing your data.

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## Day 68 – Building a Secure AWS 3-Tier Application



[Secure Multi-Tier Architecture in AWS](#)



### Scale Like a Cloud Architect!

Deploy a **scalable and secure 3-tier architecture** on AWS, ensuring **database connectivity security**, proper **network segmentation**, and **high availability** for production-grade applications.



## Day 69 – Real-Time EC2 Monitoring & Alerts Using CloudWatch



[Automate EC2 Monitoring with AWS CloudWatch](#)



### From Metrics to Action!

Monitor your **EC2 instances in real time**, set up **CloudWatch alarms**, and get **instant alerts** for performance issues. Take your monitoring skills to the next level!



## Day 70 – Enforcing Least Privilege Access with IAM Policies



[Implement IAM Least Privilege Access](#)



### Lock Down Your AWS Accounts!

Learn how to apply **principle of least privilege (PoLP)** by restricting access to only what's necessary—**reducing security risks** while keeping operations smooth.



## Day 71 – Hosting a Static Website on Amazon S3 with Secure Access



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[Deploy a Static Website on AWS S3](#)

**Go Serverless & Scale Effortlessly!**

Host a **cost-effective, highly available** static website using **Amazon S3** with secure access policies. Perfect for personal blogs, landing pages, and business portfolios!

---

**Day 72 – Setting Up VPC Peering for Inter-Region Communication**

[Secure AWS VPC Peering](#)

**Connect VPCs Across AWS Regions!**

Master **VPC Peering** to enable secure, **low-latency communication** between AWS networks **across different regions** without the need for a VPN.

---

**Day 73 – Scheduling EC2 Instance Start/Stop Using CloudWatch Events**

[Optimize AWS Costs with CloudWatch Scheduling](#)

**Stop Wasting Money on Idle EC2s!**

Schedule your EC2 instances to **start/stop automatically** using **CloudWatch Events and Lambda**—cutting down unnecessary AWS costs effortlessly.

---

**Day 74 – Automating EC2 Snapshots Using Terraform & AWS Lambda**

[Automate EC2 Backups with Terraform & AWS Lambda](#)



### **Backup Strategy, Automated!**

Leverage Terraform, Lambda, and AWS CloudWatch to create **automated EC2 snapshots**—ensuring backup reliability and disaster recovery readiness.

---

## **Day 75 – Never Forget to Turn Off EC2 Again! Smart Scheduling with AWS CloudWatch & Terraform**

### [Automate EC2 Shutdowns with Terraform](#)

### **Save Costs with Smart EC2 Scheduling!**

Prevent unnecessary cloud bills by setting up **automated shutdown schedules** for your EC2 instances using **Terraform, Lambda, and CloudWatch Rules**.

---

## **Day 76 – Automating EC2 Instance Creation with Terraform**

### [Provision EC2 Instances with Terraform](#)

### **Deploy Infrastructure at Scale!**

Use **Terraform** to automate **EC2 instance creation**, set up **Security Groups, Elastic IPs, and Key Pairs**, and streamline your AWS infrastructure provisioning.

---

## **Day 77 – Configuring Terraform for AWS & Azure in Windows VS Code**

### [Automate AWS & Azure Deployments with Terraform](#)

### **Set Up Your DevOps Environment!**

Configure **Terraform** in **Windows VS Code** for seamless **multi-cloud automation** in AWS & Azure, making deployments faster and more efficient.



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## Day 78 – Deploying a Personal Portfolio Using Amazon S3 Static Hosting

 [Host Your Portfolio on AWS S3](#)

 **Showcase Your Work with AWS!**

Build and deploy a personal portfolio website on **Amazon S3** with secure access, making it **scalable, cost-efficient, and highly available**.

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## Day 79 – Configure Ansible Lab Environment

 [Set Up Your Ansible Lab](#)

 **Get Ready for Enterprise Automation!**

Set up your **Ansible control node**, configure inventory files, and prepare an efficient **lab environment** to automate cloud and server tasks effortlessly.

---

## Day 80 – Automate Configuration Management on AWS with Ansible

 [Use Ansible to Automate AWS Configuration](#)

 **Manage Cloud Configurations with Ansible!**

Learn how to **provision, configure, and maintain AWS resources** using Ansible Playbooks—no manual setup required!

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## Day 81 – Ansible Patch Management Automation



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### [Automate OS Patching with Ansible](#)

#### **Never Miss a Patch Again!**

Automate **security updates, software patches, and compliance checks** using Ansible—keeping your servers up to date and secure.

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## **Day 82 – Ansible Automating User Management with Dynamic Input**

### [Manage Users Dynamically with Ansible](#)

#### **User Creation Made Simple!**

Automate **user onboarding, role assignment, and access management** dynamically using Ansible Playbooks.

---

## **Day 83 – Ansible Automating Security Hardening**

### [Secure Linux Servers with Ansible](#)

#### **Harden Your Servers Like a Pro!**

Use Ansible to **enforce security best practices, restrict unauthorized access, and apply system hardening policies** automatically.

---

## **Day 84 – Automate Disk Management with Ansible**

### [Manage Disks Effortlessly](#)

#### **Handle Storage Without Manual Effort!**

Automate **disk partitioning, filesystem creation, and disk usage monitoring** with Ansible Playbooks.

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## Day 85 – Ansible Log Rotation & Archival

[Automate Log Management](#)

### Keep Your Logs Organized!

Prevent log files from consuming disk space by **automating log rotation, archival, and cleanup** using Ansible.



## Day 86 – Automate Cron Jobs & Scheduled Tasks with Ansible

[Manage Cron Jobs with Ansible](#)

### Schedule Jobs Like a Boss!

Use Ansible Playbooks to **automate cron job creation, updates, and deletion**, ensuring **seamless task scheduling**.



## Day 87 – Swap FileSystem Automation with Ansible

[Automate Swap Management](#)

### Optimize Performance Automatically!

Configure **swap partitions** and **swap files** across multiple servers to **boost performance dynamically**.



## Day 88 – Ansible for Samba Installation & Configuration

[Deploy Samba with Ansible](#)



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### Simplify File Sharing!

Use Ansible to **install, configure, and manage Samba file shares**, ensuring seamless cross-platform accessibility.

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## Day 89 – Ansible Server Security Hardening Automation

### [Secure Your Servers](#)

#### Automate Security Enforcement!

Deploy **firewall rules, disable unused services, and enforce SSH policies** with Ansible to strengthen security.

---

## Day 90 – Ansible in Action: Web Server Deployment on Ubuntu

### [Deploy Apache with Ansible](#)

#### Web Servers in One Click!

Automate **Apache/Nginx web server deployment** on Ubuntu servers with Ansible Playbooks.

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## Day 91 – Essential Ansible Hardening Playbook for Ubuntu & Red Hat

### [Harden Ubuntu & RHEL Servers](#)

#### Stay One Step Ahead of Threats!

Enhance Linux security using an **Ansible hardening playbook** tailored for Ubuntu and Red Hat.

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## Day 92 – Ansible Logging Demystified: Find & Analyze Logs

 [Master Log Management](#)

 **Debug Faster, Troubleshoot Smarter!**

Learn how to **locate, filter, and analyze logs** with Ansible to diagnose system issues.

---

## Day 93 – Debugging YAML Errors in Ansible Playbooks

 [Fix Ansible YAML Errors](#)

 **No More YAML Headaches!**

Find and fix **common YAML syntax errors** in Ansible Playbooks like a pro.

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## Day 94 – Automated File & Directory Creation Using Ansible

 [Create & Manage Files Efficiently](#)

 **Manage File Systems at Scale!**

Use Ansible to **create, modify, and organize files & directories** automatically.

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## Day 95 – Data Types in Ansible Playbooks: Strings, Lists & Dictionaries

 [Master Ansible Data Types](#)



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### Understand Variables Like a Pro!

Work with **lists**, **dictionaries**, and **strings** in Ansible Playbooks for dynamic automation.

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## Day 96 – Register, Debug, and Display Outputs in Ansible

 [Use Register in Playbooks](#)

### Capture & Use Command Outputs!

Use **register variables** to store command outputs and process them dynamically in Ansible.

---

## Day 97 – Centralized Logging with Ansible: Syslog Server Setup

 [Automate Syslog Configuration](#)

### Get All Logs in One Place!

Set up a **centralized Syslog server** using Ansible for better log management.

---

## Day 98 – Performance Tuning with Ansible

 [Optimize Linux Performance](#)

### Boost Server Performance Automatically!

Use Ansible to fine-tune **CPU, memory, and disk settings** for optimal efficiency.

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## Day 99 – Secure Automation: Encrypt Data with Ansible Vault



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[Use Ansible Vault for Secret Management](#)

**Protect Sensitive Data!**

Encrypt **passwords, keys, and sensitive files** with **Ansible Vault** to enhance security.

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**Day 100 – Automate sudoers File Management with Ansible**

[Manage sudoers File](#)

**Grant & Revoke Permissions Automatically!**

Use Ansible to **control sudo privileges dynamically**, ensuring secure access.

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**Day 101 – Deny-All Traffic Network Policy for Kubernetes Applications**

[Kubernetes - Deny-All Network Policy](#)

**Lock Down Your Cluster!**

Learn how to **implement a DENY-ALL network policy** to block all traffic for your Kubernetes applications—ensuring **zero unwanted access** before defining explicit allow rules.

---

**Day 102 – Fine-Tuning Kubernetes Network Policies**

[Targeted Traffic Control](#)

**Control What Connects to What!**

Master **Kubernetes network policies** by **allowing and restricting** pod-to-pod communication with fine-grained control over ingress and egress traffic.

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## Day 103 – Allow-All Traffic Policy for Kubernetes Applications

 [Allow-All Network Policy](#)

 **Open the Gates!**

Understand how an **Allow-All Network Policy** works and when to use it—ideal for initial deployments, debugging, and open service architectures.

---

## Day 104 – Default DENY All Network Policy at Namespace Level

 [Namespace-Level Network Isolation](#)

 **Lock Down an Entire Namespace!**

Enforce **strict isolation policies** at the namespace level to ensure that **only explicitly defined traffic is allowed**.

---

## Day 105 – Blocking Cross-Namespace Traffic in Kubernetes

 [Deny All Cross-Namespace Traffic](#)

 **Keep Applications in Their Lanes!**

Prevent unwanted communication across namespaces using **Kubernetes Network Policies** to **restrict inter-namespace traffic**.

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## Day 106 – Enabling Cross-Namespace Traffic to a Centralized Service

 [Allow Targeted Cross-Namespace Traffic](#)

 **Selective Cross-Namespace Access!**

Learn how to **securely expose centralized services** while keeping other namespaces isolated.

---

## Day 107 – Port-Specific Network Policies in Kubernetes

 [Fine-Grained Traffic Control](#)

 **Restrict Traffic by Port!**

Limit pod-to-pod communication based on **specific ports**, ensuring a **secure and optimized** microservices architecture.

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## Day 108 – Complex Network Policies for Microservices Traffic Control

 [Advanced Traffic Rules](#)

 **Secure Microservices with Granular Policies!**

Design **multi-layered network policies** for **fine-tuned microservices traffic control** while ensuring seamless application performance.

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## Day 109 – Implementing Egress Deny Policy for Application Isolation



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### [Block Unwanted Outbound Traffic](#)

#### **Prevent Data Leaks & Control External Access!**

Apply **Egress Deny** policies to block **unauthorized outbound traffic** and protect sensitive applications.

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## **Day 110 – Mastering Stateful Applications with Kubernetes StatefulSets**

### [Kubernetes StatefulSets](#)

#### **Persistent & Ordered Pod Management!**

Discover how **StatefulSets** enable **stable identities, ordered scaling, and persistent storage** for stateful apps like databases.

---

## **Day 111 – Horizontal vs. Vertical Scaling in Kubernetes**

### [Autoscaling Explained](#)

#### **Scale Up or Scale Out?**

Learn when to use **Horizontal Pod Autoscaler (HPA)** vs. **Vertical Pod Autoscaler (VPA)** for optimized Kubernetes workloads.

---

## **Day 112 – Affinity & Anti-Affinity for Pod Scheduling**

### [Advanced Pod Scheduling](#)

#### **Balance Workloads Like a Pro!**

Use **node affinity, pod affinity, and anti-affinity** to control where your pods run—boosting performance and reliability.

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## 📅 Day 113 – Kubernetes Backup & Disaster Recovery with Velero

 [Velero for Kubernetes Backups](#)

### Disaster-Proof Your Cluster!

Set up **Velero** for automated Kubernetes backups and restore strategies to prevent data loss in case of failures.

---

## 📅 Day 114 – Kubernetes Deployment Strategies for Zero Downtime

 [Rolling Updates, Canary, & Blue-Green](#)

### Deploy with Confidence!

Master **Rolling Updates**, **Canary Deployments**, and **Blue-Green Deployments** to achieve zero-downtime application updates.

---

## 📅 Day 115 – Kubernetes Security Audits with kube-bench

 [Automate Security Audits](#)

### Stay Secure & Compliant!

Run **CIS Benchmark security checks** on your Kubernetes cluster using **kube-bench** to proactively fix vulnerabilities.

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## 📅 Day 116 – Eco-Friendly Kubernetes: Optimize Energy & Carbon Footprint



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[Sustainable Kubernetes Practices](#)

**Green Cloud Computing!**

Use **Kepler**, **Prometheus**, and **Grafana** to monitor and reduce your **Kubernetes energy consumption & carbon footprint**.

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**Day 117 – QoS in Kubernetes: Managing Pods Under Pressure**

[Pod Resource Allocation](#)

**Optimize Pod Performance!**

Understand Kubernetes **Quality of Service (QoS)** classes (**Guaranteed**, **Burstable**, **BestEffort**) for efficient resource allocation.

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**Day 118 – Krew: The Package Manager for Kubernetes Admins**

[Simplify Kubernetes Plugin Management](#)

**Supercharge kubectl with Plugins!**

Discover **Krew**, the **package manager for kubectl**, to easily install and manage Kubernetes plugins.

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**Day 119 – Configuring Terraform for AWS & Azure in Windows VS Code**

[Set Up Terraform in Windows VS Code](#)



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### Get Ready to Automate!

Learn how to **configure Terraform for AWS & Azure in Windows VS Code**, setting up providers, authentication, and a seamless development environment.

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## Day 120 – Creating a GCP Storage Bucket Using Terraform

 [Automate GCP Storage Deployment](#)

### Provision Cloud Storage in Seconds!

Automate the creation of **Google Cloud Storage buckets** using **Terraform**, ensuring **scalability, security, and cost optimization**.

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## Day 121 – Managing Firewall Rules in GCP with Terraform

 [GCP Firewall Rules Management](#)

### Control Network Traffic Like a Pro!

Use Terraform to **define, deploy, and manage GCP firewall rules**, ensuring **secure access control** across your cloud network.

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## Day 122 – Creating & Managing GCP VPC Networks with Terraform

 [Terraform GCP VPC Automation](#)

### Build Secure & Scalable Networks!

Leverage Terraform to **automate VPC creation, subnet configuration, and network policies** in **Google Cloud Platform**.



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## Day 123 – Automating Docker with Terraform: Creating Images & Containers

 [Docker + Terraform = Fully Automated!](#)

 **Deploy Containers with IaC!**

Use Terraform to **automate Docker container creation, image building, and deployment**—combining DevOps & containerization.

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## Day 124 – Automating AWS EC2 Snapshots Using Terraform

 [Terraform AWS EC2 Backup Automation](#)

 **Never Lose Your Data!**

Learn how to **automatically create and manage EC2 volume snapshots** using Terraform, AWS Lambda, and CloudWatch.

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## Day 125 – Automating EC2 Instance Shutdowns with Terraform & CloudWatch

 [Terraform + CloudWatch = Smart EC2 Cost Savings](#)

 **Save Costs with Smart Scheduling!**

Automatically **turn off idle EC2 instances** using **Terraform and AWS CloudWatch Events**—eliminating unnecessary cloud expenses.

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## Day 126 – Automating EC2 Instance Creation with Terraform

 [Provision AWS EC2 with Terraform](#)

### Deploy Infrastructure in a Single Click!

Use Terraform to **provision EC2 instances**, configure **Security Groups**, **Elastic IPs**, and **Key Pairs**—all through code.

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## Day 127 – Deploying a Windows VM with IIS in Azure Using Terraform

 [Windows VM Deployment with Terraform](#)

### Automate Windows Deployments in Azure!

Use Terraform to **deploy a Windows Virtual Machine (VM) with IIS**, configure **networking**, **firewall rules**, and **automation scripts** for web hosting.



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**Phone**

+32 471 40 8908



**E-mail**

careerbytec@gmail.com



**HQ address**

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