Here's a **1-month daily study plan** covering all the topics you mentioned, structured for **30 days** with a progressive approach. Each day includes a focused subtopic to ensure deep learning.

**🗓️ 1-Month Azure DevOps & Cloud Study Plan**

**Week 1: Azure & Infrastructure Basics**

📌 **Goal:** Get familiar with Azure, Terraform, Ansible, and YAML basics.

* **Day 1:** Introduction to Azure
  + Azure services overview
  + Azure App Services, VMs, Storage, Networking
  + Azure DevOps basics
* **Day 2:** Azure Resource Management
  + Azure Resource Manager (ARM)
  + Azure Key Vault
  + Azure Storage & Networking
* **Day 3:** Introduction to Terraform (IaC)
  + What is Terraform & why use it?
  + Installing Terraform
  + Writing your first .tf file
* **Day 4:** Terraform Fundamentals
  + Terraform Providers & Modules
  + Terraform State Management
  + Terraform Variables & Outputs
* **Day 5:** Ansible Basics
  + What is Ansible?
  + Installing Ansible
  + Writing your first Ansible Playbook
* **Day 6:** YAML for DevOps
  + Introduction to YAML
  + Writing YAML files
  + YAML syntax for CI/CD Pipelines
* **Day 7:** Hands-on Practice Day
  + Set up an Azure Resource using Terraform
  + Write a simple Ansible playbook
  + Practice writing YAML files

**Week 2: Containerization & CI/CD**

📌 **Goal:** Learn Docker, Kubernetes, and CI/CD with Jenkins & Azure Pipelines.

* **Day 8:** Docker Basics
  + What is Docker?
  + Installing Docker
  + Running containers & writing Dockerfiles
* **Day 9:** Docker Networking & Volumes
  + Docker Compose
  + Data persistence with Volumes
  + Networking in Docker
* **Day 10:** Kubernetes Introduction
  + What is Kubernetes?
  + Setting up Minikube/Kubernetes Cluster
  + Understanding Pods, Deployments, and Services
* **Day 11:** Kubernetes Configuration
  + ConfigMaps & Secrets
  + Ingress Controllers
  + StatefulSets vs Deployments
* **Day 12:** CI/CD with Jenkins
  + Jenkins setup
  + Writing Jenkins pipelines
  + Integrating Jenkins with Docker
* **Day 13:** CI/CD with Azure DevOps
  + Azure Pipelines overview
  + Writing a CI/CD pipeline in YAML
  + Running pipeline for a sample application
* **Day 14:** Hands-on Practice Day
  + Deploy an app using Docker & Kubernetes
  + Create a Jenkins pipeline to build & deploy a container

**Week 3: Monitoring & Security**

📌 **Goal:** Explore monitoring tools like Grafana, Prometheus, and ELK stack.

* **Day 15:** Introduction to Prometheus
  + What is Prometheus?
  + Installing Prometheus
  + Writing PromQL queries
* **Day 16:** Setting up Grafana for Monitoring
  + What is Grafana?
  + Installing & Configuring Grafana
  + Connecting Grafana with Prometheus
* **Day 17:** Working with Alerts in Grafana & Prometheus
  + Configuring Alerting in Prometheus
  + Setting up Alert Rules in Grafana
* **Day 18:** Introduction to ELK Stack
  + What is ELK? (Elasticsearch, Logstash, Kibana)
  + Installing the ELK stack
  + Basic log collection with Logstash
* **Day 19:** Monitoring Kubernetes with ELK
  + Setting up Fluentd with ELK
  + Creating visualizations in Kibana
* **Day 20:** Security in CI/CD & Cloud
  + Best practices for securing DevOps pipelines
  + Role-Based Access Control (RBAC) in Kubernetes
  + Using Azure Key Vault & secrets management
* **Day 21:** Hands-on Practice Day
  + Configure Grafana dashboards
  + Set up monitoring for a Kubernetes cluster

**Week 4: Advanced Topics & Real-World Projects**

📌 **Goal:** Apply your knowledge with real-world deployments and automation.

* **Day 22:** Writing Advanced Terraform Modules
  + Terraform Remote State
  + Using Terraform with Azure DevOps
* **Day 23:** Automating Infrastructure with Ansible
  + Writing Advanced Ansible Playbooks
  + Automating Azure resource provisioning
* **Day 24:** Kubernetes Helm Charts
  + What is Helm?
  + Writing and deploying Helm charts
* **Day 25:** CI/CD Pipeline for Kubernetes Apps
  + Deploying apps using GitHub Actions & Azure Pipelines
  + Automating deployments with Helm
* **Day 26:** Logging & Monitoring in CI/CD
  + Setting up ELK for application logs
  + Centralized monitoring with Grafana
* **Day 27:** Cloud Deployment Best Practices
  + Blue-Green & Canary Deployments
  + Implementing Auto-Scaling in Kubernetes
* **Day 28:** Troubleshooting & Debugging in DevOps
  + Debugging CI/CD pipelines
  + Troubleshooting Kubernetes deployments
* **Day 29:** Final Hands-on Project
  + Deploy a sample app with CI/CD using
    - Terraform
    - Ansible
    - Kubernetes
    - Docker
    - Jenkins
* **Day 30:** Review & Mock Interview
  + Revise all topics
  + Prepare interview questions
  + Take a mock interview