DevOps Engineer Roadmap & AZ-400 Certification Plan

Month 1: DevOps Foundations		
[]	Understand DevOps principles and lifecycle	
[]	Learn Git fundamentals: branching, merging, rebase	
[]	Practice with GitHub/GitLab	
[]	CI/CD basics: what, why, and how it works	
[]	Intro to Jenkins and GitHub Actions	
[]	Docker fundamentals: build, tag, push, and run images	
[]	Create a basic CI pipeline with GitHub Actions	
Мо	nth 2: Azure DevOps Deep Dive	
[]	Explore Azure DevOps Services: Boards, Repos, Pipelines, Artifacts	
[]	Create classic and YAML pipelines	
[]	Configure build agents and environments	
[]	Use Azure Repos to host code	
[]	Track work items with Azure Boards	
[]	Connect pipeline with Azure App Services for deployment	
[]	Use variable groups, secrets, and service connections	
Мо	nth 3: Infrastructure as Code + Containers	
[]	Learn Terraform syntax and workflow	
[]	Provision Azure VMs using Terraform	
[]	Explore Azure ARM templates (optional)	
[]	Docker Compose and multi-container setup	
[]	Intro to Kubernetes (K8s) and cluster components	
[]	Deploy applications on AKS (Azure Kubernetes Service)	
гі	Basic Helm chart usage for AKS	

Month 4: Security, Testing, and Monitoring		
[]	Secure DevOps pipeline with Azure Key Vault	
[]	Integrate secrets into YAML pipelines	
[]	Implement code quality tools (SonarQube, ESLint)	
[]	Write unit tests and integrate with CI pipeline	
[]	Learn about Azure Monitor and Log Analytics	
[]	Create alerts and dashboards in Azure	
[]	Understand Azure RBAC and policy management	
Month 5: AZ-400 Exam Prep + Final Projects		
[]	Revisit Microsoft Learn AZ-400 modules	
[]	Take full-length practice exams (Whizlabs/Udemy)	
[]	Work on capstone project: Git repo -> CI/CD -> Docker -> AKS -> Monitoring	
[]	Fix weak areas based on test results	
[]	Review flashcards: key services, YAML syntax, DevOps terms	
[]	Schedule and take the AZ-400 certification exam	