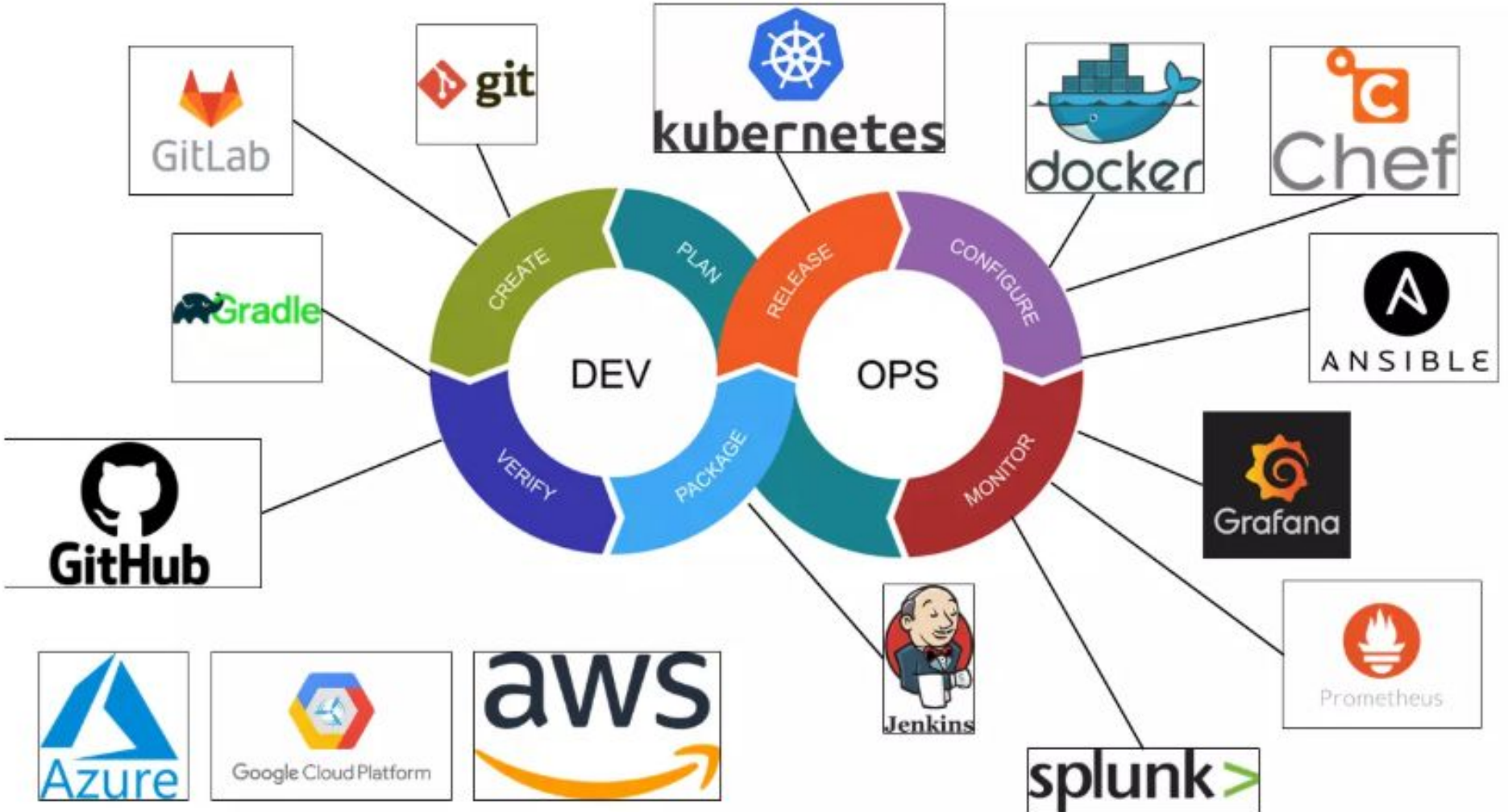

GitLab
git
kubernetes
docker
Chef
Gradle
ANSIBLE
GitHub
Grafana
Prometheus
Azure
Google Cloud Platform
aws
Jenkins
splunk>
CREATE
PLAN
RELEASE
CONFIGURE
VERIFY
PACKAGE
MONITOR
DEV
OPS

DEVOPS ROADMAP

Start

Finish!

Step One

Linux Basics

Step Two

Terraform + Azure

Step Three

CI/CD Pipelines + Scripting

Step Four

Docker + Kubernetes + DevSecOps Tools

Syllabus

Azure Pipelines

checkov

kubernetes

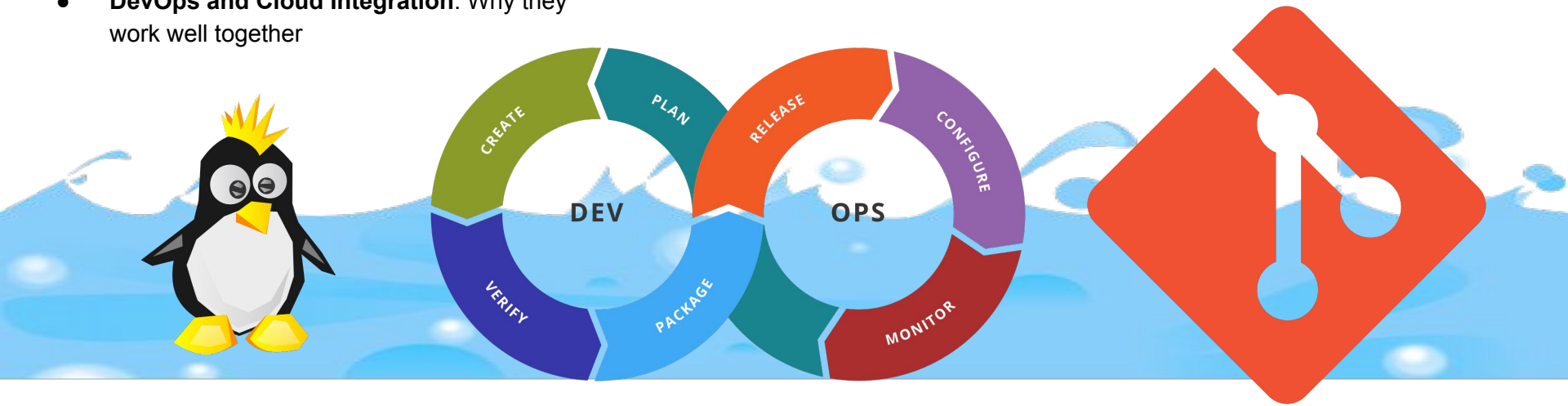
HashiCorp
Terraform

Module 1:Linux Basics and Introduction to DevOps and Cloud Computing

- **Understanding DevOps**: Principles, benefits, and practices
- **Cloud Computing Overview**: Types (IaaS, PaaS, SaaS), public vs. private clouds
- **Popular Cloud Providers**: AWS, Azure, Google Cloud, etc.
- **DevOps and Cloud Integration**: Why they work well together

Module 2: Version Control Systems

- Introduction to Version Control Systems (VCS)
- **Git Basics**: Repositories, branching, merging, pull requests
- Collaboration platforms: GitHub, GitLab, Bitbucket
- Best practices for version control in DevOps



Module 3: Microsoft Azure AZ-104

- Managing Azure Subscriptions and Resource Groups
- **Azure Virtual Networks and Network Security**
- Overview of Azure Virtual Machines
- Overview of Azure Storage Services
- Secure and Manage Azure Storage
- Configure Virtual Machines for High Availability
- Network Traffic Distribution and Connectivity
- Integrate On-premises Network with Azure Virtual Network
- Monitoring and Access Management for Cloud Resources
- Manage Azure Active Directory (AD)
- Implementing and Managing Hybrid Identities

Module 4: Terraform

- Infra-as-a-code: Overview
- What is Infrastructure as Code with Terraform
  - Manage any infrastructure
  - Standardize your deployment workflow
  - Track your infrastructure
- Terraform module output
- Terraform state
- Azure key vault integration
- Creating VM images
- Terraform registry
- Azure Virtual Machines
- Azure CLI

Terraform

Module 5: Git, Jenkins & Maven Integration

- Branching and merging in Git
- Merge Conflicts
- Stashing, Rebasing, Reverting, and Resetting
- Git Workflows
- Introduction to Maven
- Maven Architecture
- Introduction to Continuous Integration

Jenkins

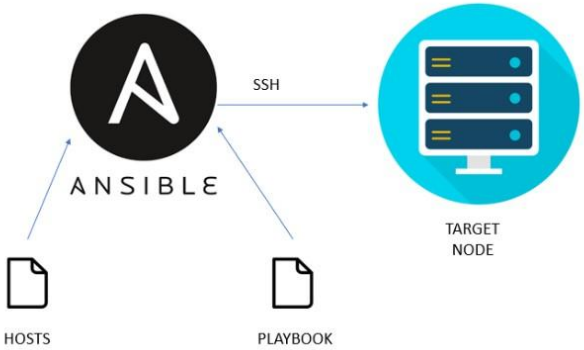
Module 6: Continuous Integration using Jenkins

- Jenkins Architecture
- Plugin Management in Jenkins
- Jenkins Security Management
- Notification in Jenkins
- Jenkins Master-slave architecture
- Jenkins Delivery Pipeline
- Jenkins Declarative pipeline

Jenkins

Module 7: Configuration Management Using Ansible

- Introduction to Configuration Management
- Infrastructure as Code
- Introduction to Ansible
- Ansible Architecture
- Inventory Management
- Ansible Modules
- AD-HOC Commands
- Ansible Playbooks
- Ansible Roles



Module : Containerization using Docker Part – I

- Containerization
- Namespaces
- Docker
- Docker Architecture
- Container Lifecycle
- Docker CLI
- Port Binding
- Detached and Foreground Mode
- Dockerfile
- Dockerfile Instructions
- Docker Image

Module : Containerization using Docker Part – II

- Docker Registry
- Container Storage
- Volumes
- Docker Compose
- Docker Swarm

Orchestration using Kubernetes Part - I

- Introduction to Container Orchestration
- Kubernetes Core Concepts
- Understanding Pods
- ReplicaSet and Replication Controller
- Deployments
- DaemonSets
- Rolling Updates and Rollbacks
- Scaling Application

kubernetes

Orchestration using Kubernetes Part - II

- Services
- Persistent Storage in Kubernetes
- Primitives for PersistentVolumeClaims
- Secrets and ConfigMaps
- Headless Services
- StatefulSets
- Helm Charts

Monitoring using Prometheus and Grafana

- Introduction to Prometheus and Grafana
- Prometheus and Grafana Setup
- Monitoring using Prometheus
- Dashboard Visualization using Grafana
- Creating a Dashboard to monitor the Pipeline

RESUME WRITTING

RESUME, COVER LETTER, LINKEDIN PROFILE


THANK YOU