

# Introduction

Welcome to the **AWS Elastic Kubernetes Service (EKS) workshop!**

This workshop guides you through a set of hands-on lab exercises to learn and explore the various features provided by EKS and how it integrates with the broader set of services offered by AWS. The labs are grouped across a number of areas:

- ❑ **Introduction** - Learn the format and structure of this workshop
- ❑ **Fundamentals** - Familiarize yourself with basic EKS concepts such as managed node groups, Fargate, exposing your applications and utilizing storage
- ❑ **Autoscaling** - Understand how to automatically scale your applications and clusters horizontally and vertically
- ❑ **Observability** - Monitoring is a critical factor getting a workload to production
- ❑ **Security** - Demonstrates how to apply container security practices to EKS clusters and workloads
- ❑ **Networking** - Dive deep in to how EKS networking integrates to Amazon Virtual Private Cloud and more
- ❑ **Automation** - Apply principles such as GitOps and provisioning infrastructure through EKS

These labs are designed in a way that you can pick any combination of modules that reflect your experience and skills to learn efficiently. The workshop environment provides pre-configured AWS infrastructure including an EKS cluster and AWS Cloud9 Integrated Development Environment (IDE) with all the tools you need to complete the lab exercises.