

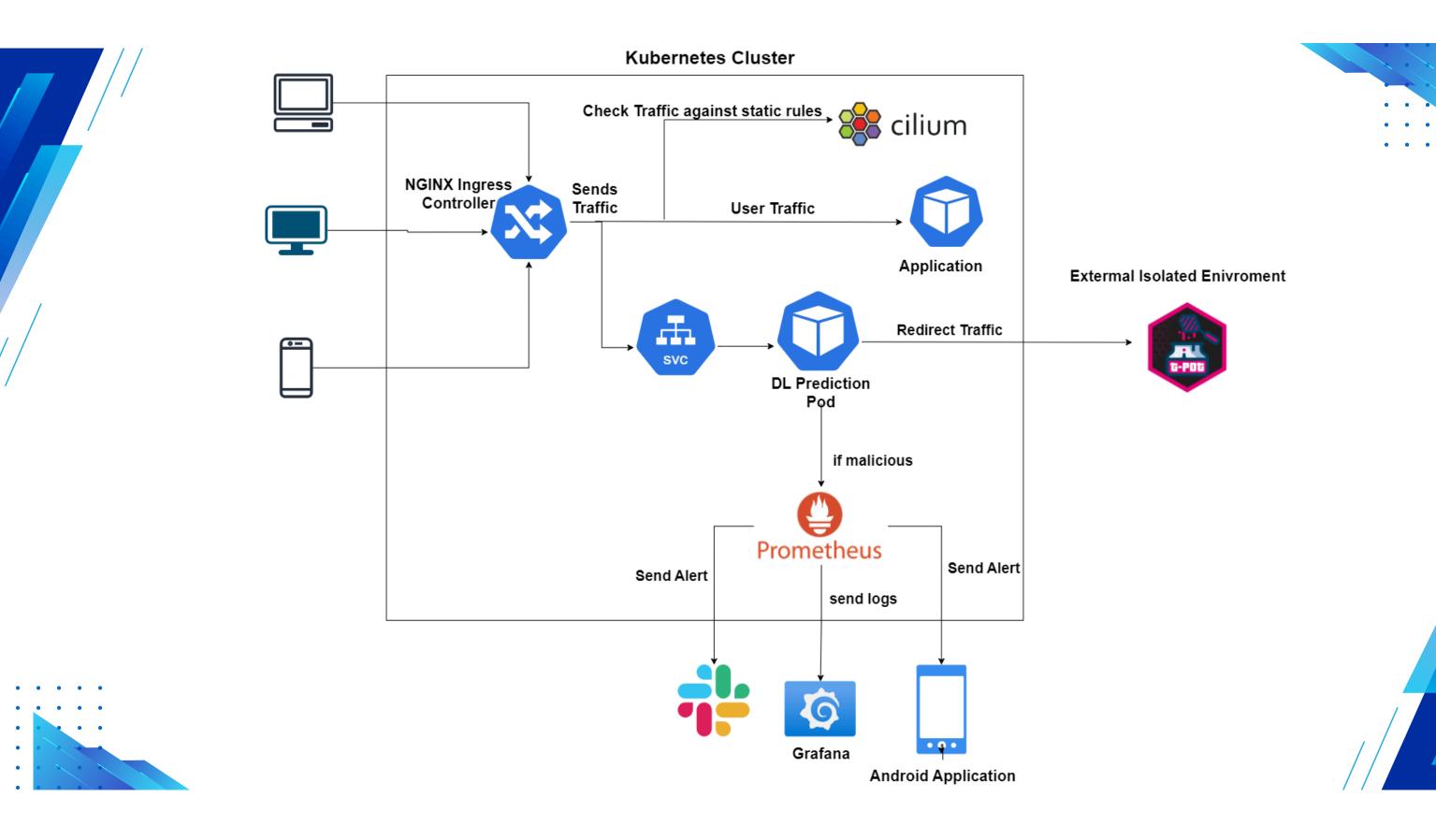




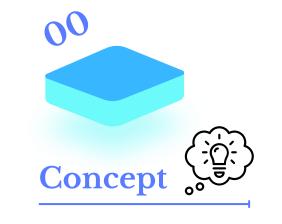


To create a in-time, AI-driven security system for detecting and mitigating network anomalies within Kubernetes environments.

### Architecture



#### Timeline



Basic Idea formulation Proposal Defense

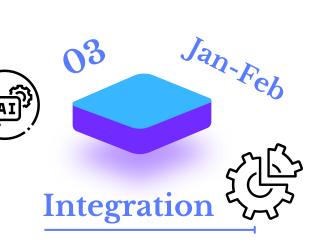


Kubernetes Cluster
Setup
Monitoring Tools
Setup
Model Analysis



Model Training & Testing Cilium Setup

Writing Cilium Rules



Model Integration
Honeypot Setup
Yaml Misconfigurations
tool



App Development
Deployment &
Testing

## Tools & Technologies



## Team

M. Usman Azam i21-0653 Muhammad Hani i21-2595 Daniyal Ahmed i21-2493

# Supervisor

Dr. Arshad Islam

