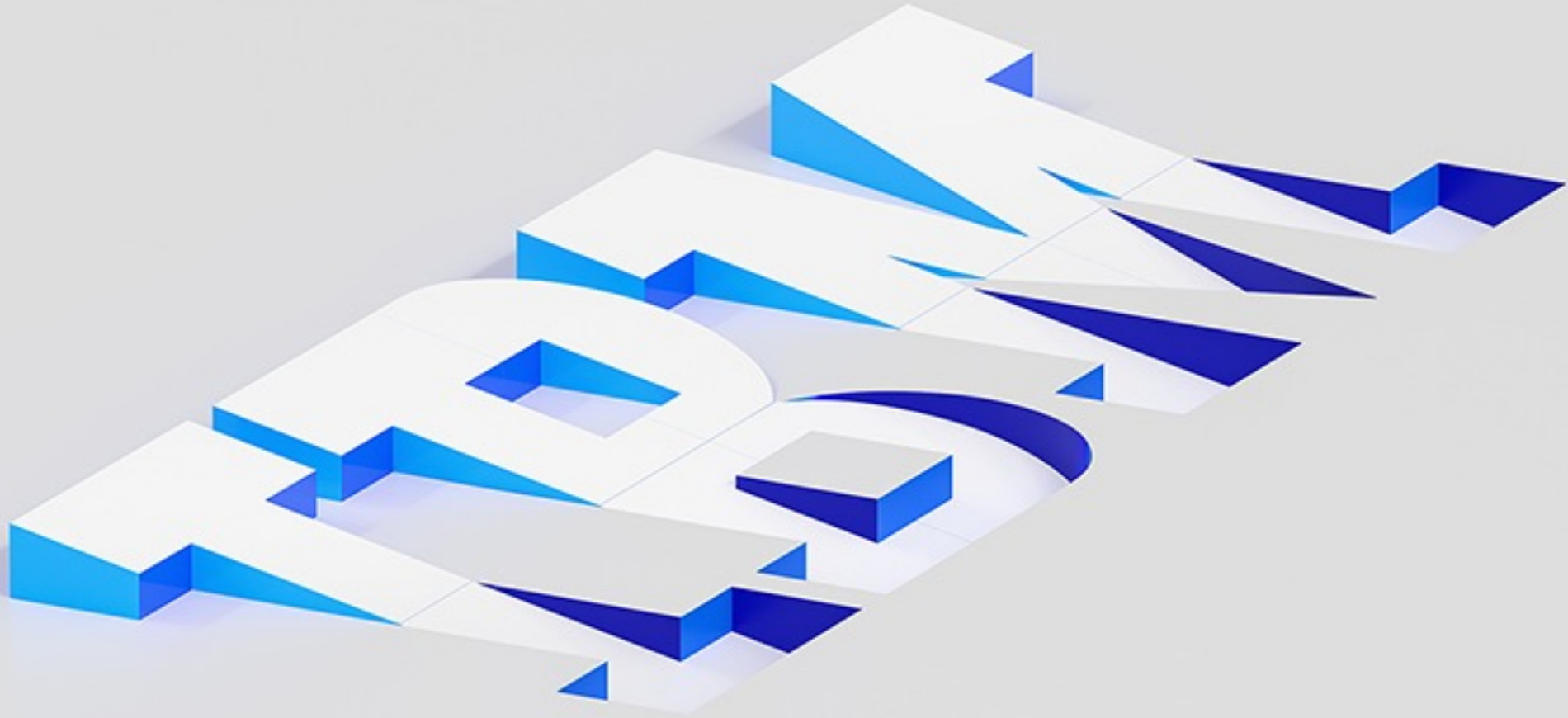


# Openshift Workshop



Customer Success

# Outline

- Docker
- Kubernetes
- Openshift
- Deployments Options
- CI/CD DevOps Toolkit



# Docker

- Containers vs VMs
- Applications in Containers
- Docker Mission (Run everywhere)
- Docker Architecture
- Docker Images
- Docker Hub
- Container Persistency
- Dockerfile
- Podman

# Kubernetes

- K8s Architecture
- K8s Concepts:
  - Node
  - Deployment
  - Service
  - Service Types
  - Application State
  - Limit
  - Quota
  - Namespace
- K8s Capabilities
  - Scheduling
  - Self-Healing
  - Scaling
  - Discovery and LB
  - Rollouts/Rollbacks
  - Secret/Configuration Management

# Openshift

- Architecture
- CoreOS
- Observability
- Authentication
- Security
- Networking
- Storage
- Spectrum Scale
- Operators
- Deployment Options (On-Prem, cloud)

# CI/CD DevOps Toolkit

## Dev Options

- Code Ready Workspaces
- ODO command line
- IBM Cloud Native Toolkit

## IBM Cloud Native toolkit

- Gitops
- Tekton
- ArgoCD
- Artifactory
- Sonarqube

# Labs

- Deploy Application
- Application Storage
- Image management
- Application Management
- Network Policies
- Operators
- Monitoring
- DevOps:
  - Source2Image
  - CI with Tekton
  - CD with ArgoCD

