

# Deployment Strategy

## Zero-Downtime Deployment (Blue-Green)

1. Deploy new version to "Green" staging slot
2. Warm up Green slot (cache, DB connections)
3. Run automated smoke tests
4. Swap slots (instant traffic cutover)
5. Monitor for issues
6. Keep "Blue" slot for instant rollback

## Azure Infrastructure

- **API:** Azure App Service
- **Integration Service:** Azure Container Instances or Functions
- **Database:** Azure SQL Database
- **Cache:** Azure Cache for Redis
- **Monitoring:** Application Insights

## CI/CD Pipeline

### Build Stage:

- Restore → Build → Test → Security Scan → Publish Artifacts

### Deploy Stage:

- Deploy to Staging → Smoke Tests → Deploy to Production (approval)

## Rollback

**Instant:** Swap back to Blue slot

**Alternative:** Redeploy previous version from artifacts