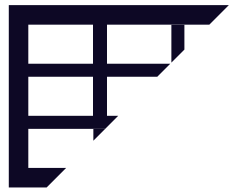


ML.NET Models and Azure Container Applications Service

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Facultatea de Matematică și Informatică

Machine Learning Workflow



Get the data



Prepare the data



Train



Evaluate



Deploy

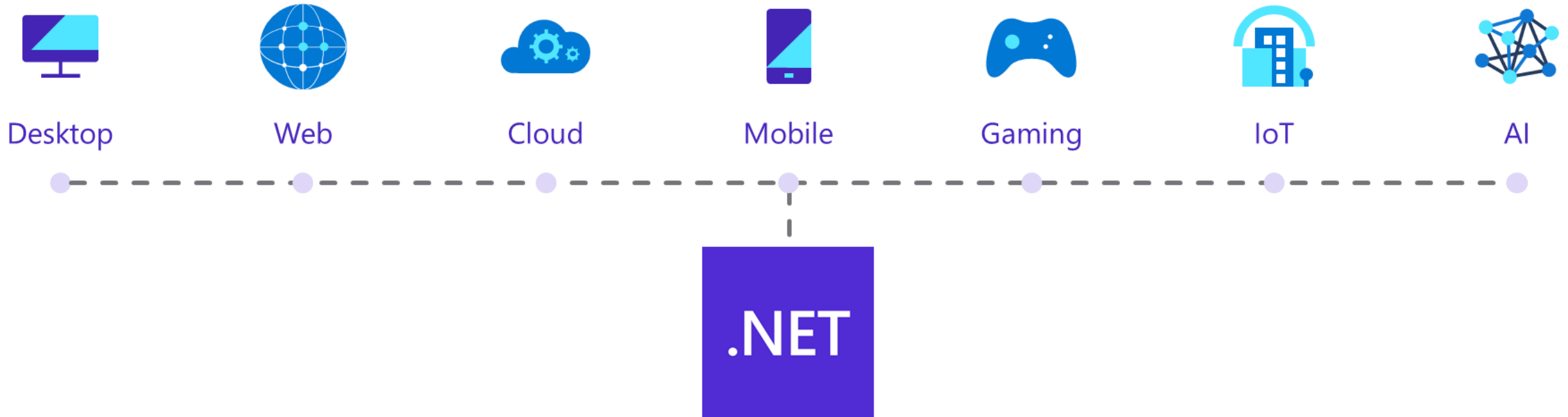


Inferencing

Model Training

Model Consumption

.NET Environment



Automation ML with ML.NET



An **open-source** and **cross-platform** machine learning framework for .NET



Train custom
models

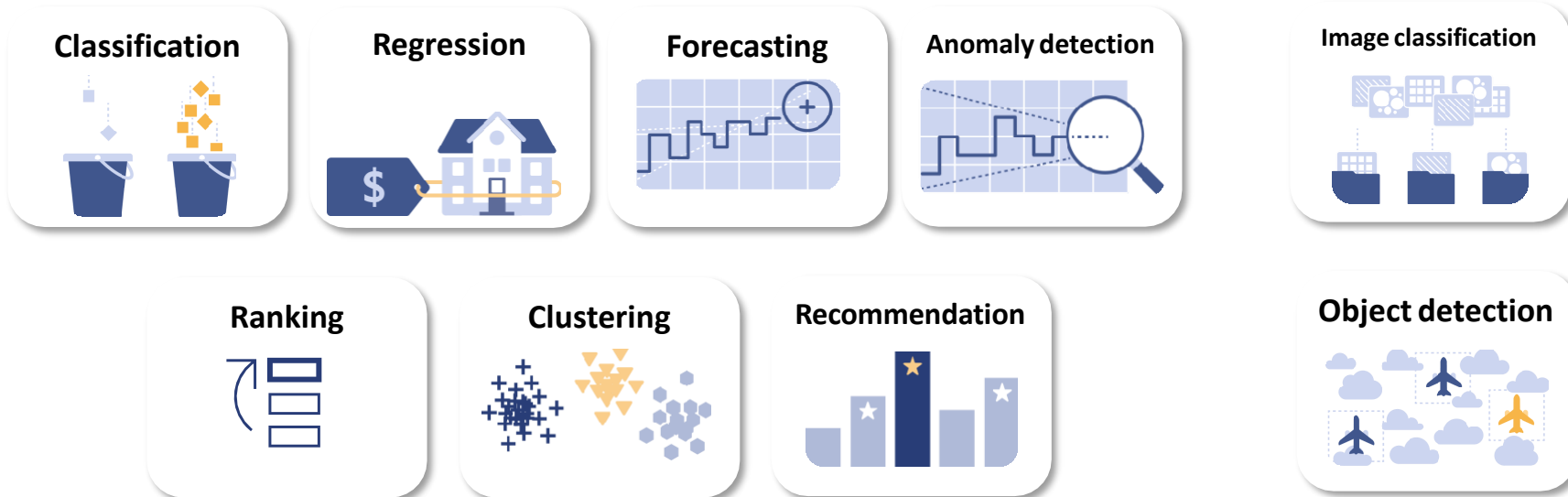


Consume pre-
trained model



ML.NET built for .NET developers

ML.NET – Components



ML.NET Platform

Model Builder

(Visual Studio UI)

ML.NET CLI

(Cross-platform global tool)

AutoML.NET API

ML.NET API

(Microsoft.ML)

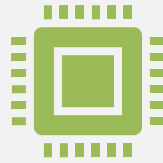
Demo: Train ML.NET Model

Azure Container Applications Service

Azure Container Apps- Definition



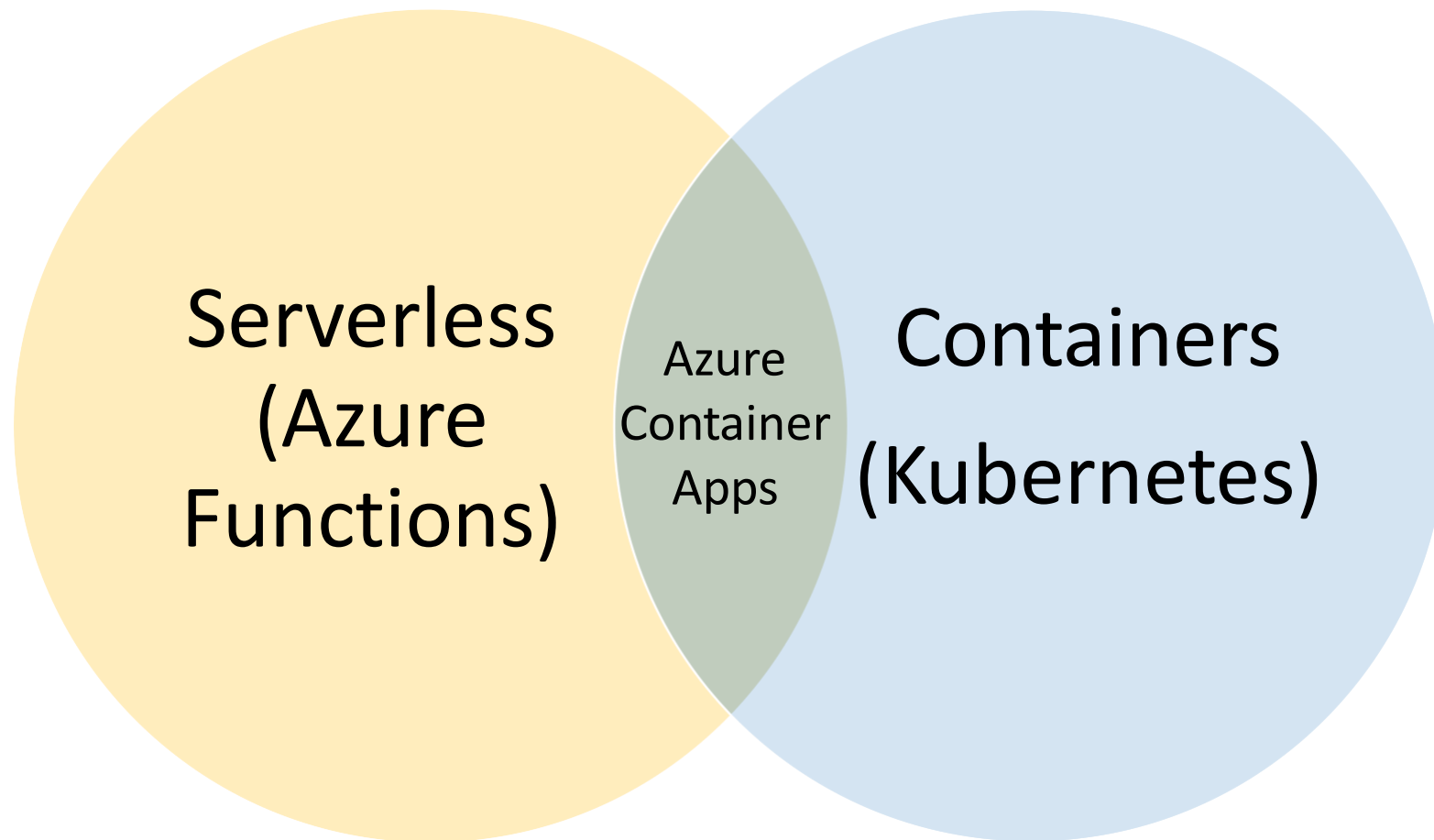
A hosting service that is centered on serverless application



Allows you to run application code bundled in any container, regardless of the runtime or programming model.



Built on the foundation of the Kubernetes ecosystem



Supported application types



Deploying API endpoints



Hosting background processing
applications



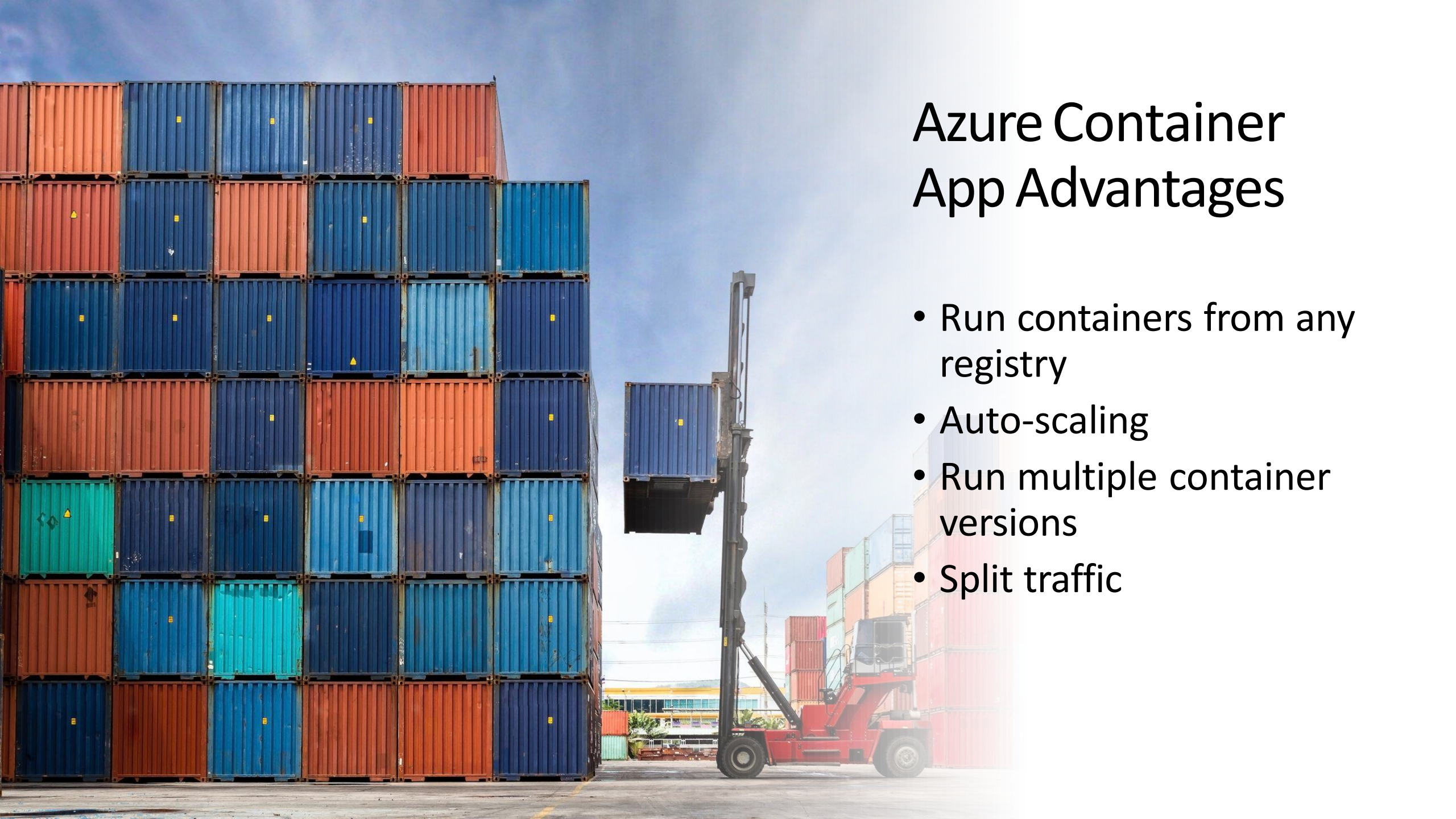
Handling event-driven processing

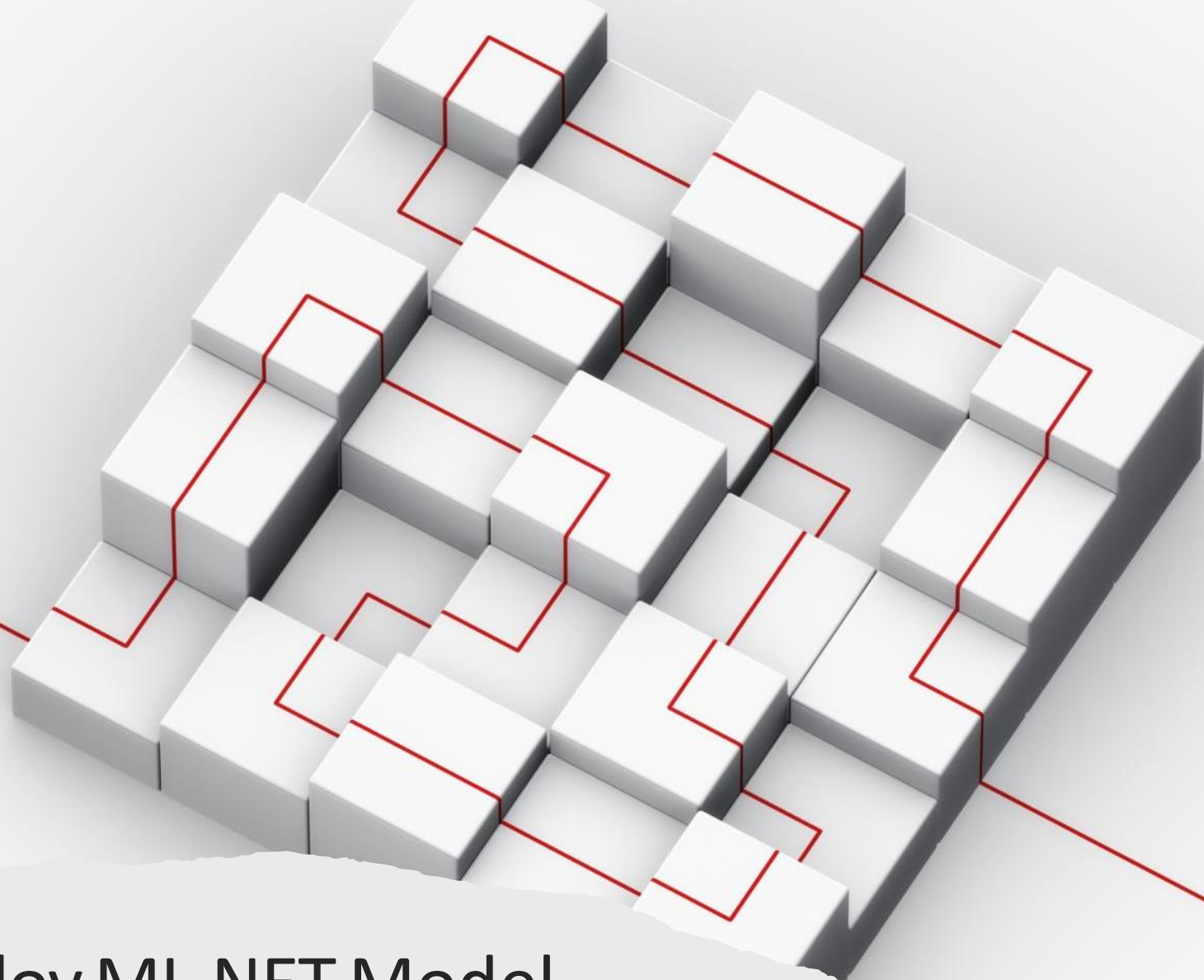


Running microservices

Azure Container App Advantages

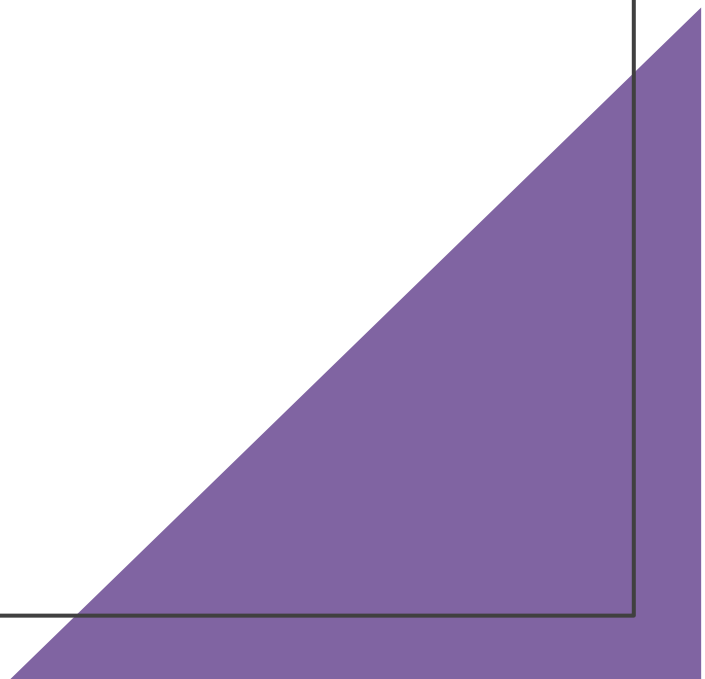
- Run containers from any registry
- Auto-scaling
- Run multiple container versions
- Split traffic





Demo: Deploy ML.NET Model

Q&A



Questions?