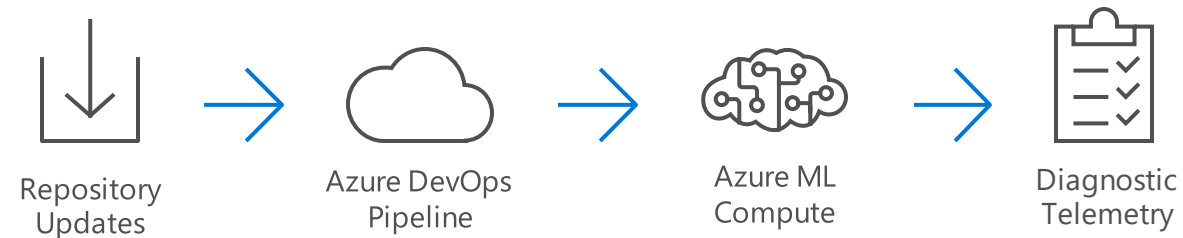
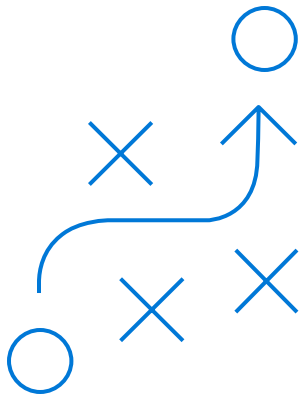
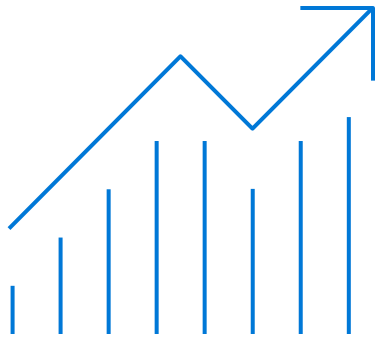


Mission Statement

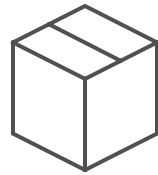
Streamlining and expediting
a data scientist's CI/CD workflow



Optimizations



- Agentless pipeline steps reduce wasted agent-hours spent idling while notebooks are running



- Validation of custom images and dependencies






- Improved telemetry in Azure DevOps offers intuitive story to debugging and resolving notebook errors





- Intelligently filtering notebooks to validate based on whether edits could introduce breaking changes


Pipeline Definition


Run Added or Edited Example Notebooks  


 **Use Python 3.5**
Use Python version


 **Get Changed Notebooks**
PowerShell


 **Identify Notebooks To Test**
PowerShell


 **Task group: Dev-AzureMLSDK-Index-PS master**
Dev-AzureMLSDK-Index-PS


 **Azure Key Vault: azureml-sdk-test-secrets**
Azure Key Vault


 **Copy Scripts to artifacts**
PowerShell


 **Create RG**
PowerShell


 **Create WS**
PowerShell

 **Run Notebooks**
PowerShell



 **Validate Test Results**
Disabled: PowerShell


 **Publish Test Results **\TEST-*.xml**
Publish Test Results



 **Publish Artifact: Artifacts**
Publish build artifacts


 **Delete RG**
PowerShell



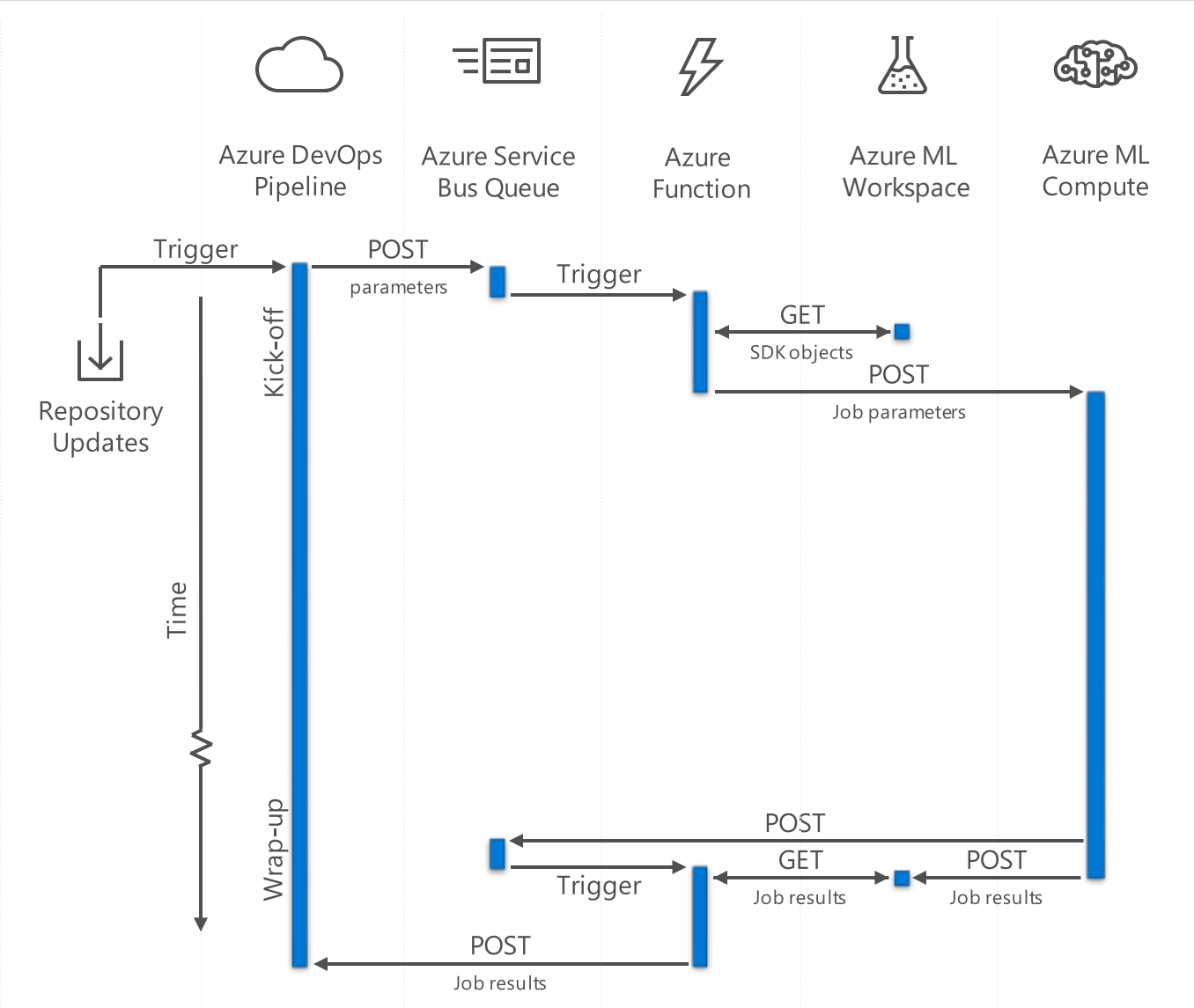
Identify Notebooks  

 **Get Changed Notebooks**
PowerShell

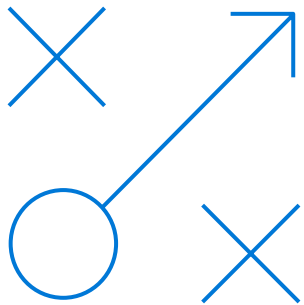
Run Notebooks  

 **Publish to Azure Service Bus**
Publish To Azure Service Bus

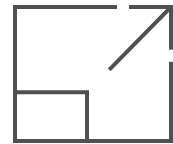
Sequence Diagram



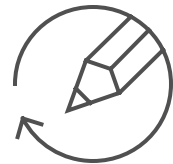
Looking Forward



- Recognizing the Azure ML API should be re-worked, avoiding bloated SDK that hurts operationalization



- Emphasizing the importance of event-driven architectures and their role in operationalization



- Building a more comprehensive end-to-end operationalization of AzureML

