



Azure Data Factory and Integration Context


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SEBASTIAN MEYER

- Architect With Focus On Integration
- Grown up with BizTalk Server
- Turned Over to Cloud



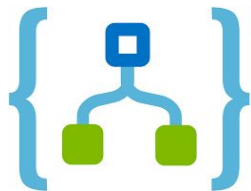
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AZURE INTEGRATION SERVICES



Logic Apps



Function Apps



Service Bus



API Management



Data Factory

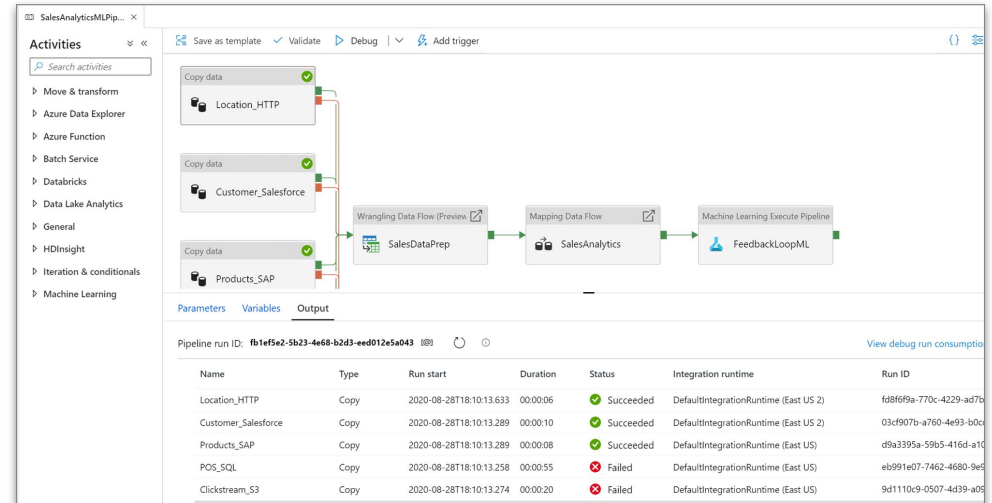


Event Grid

DATA FACTORY



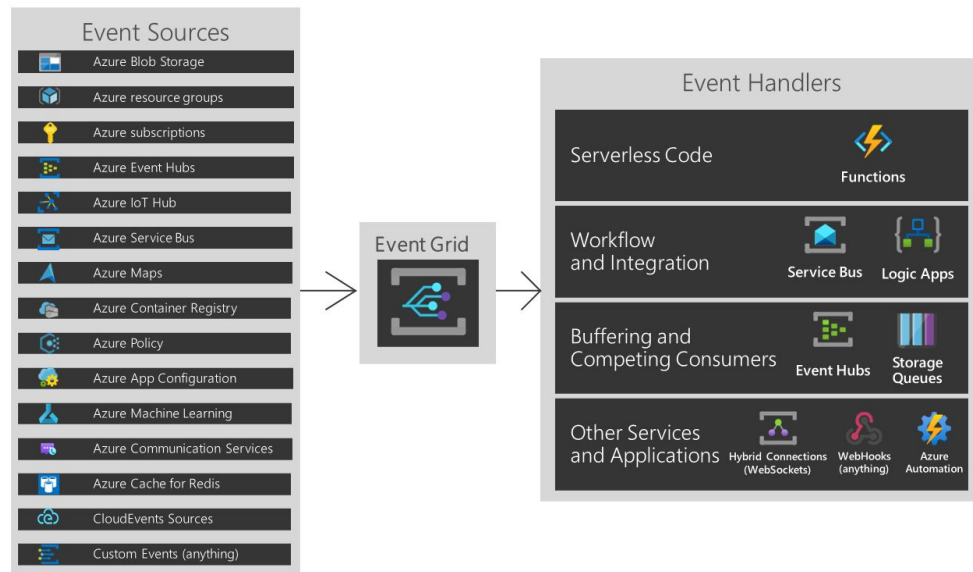
- Data Integration
- Data Transformation
- ETL Workloads
- Scheduled
- Iteration & conditionals
- Machine Learning



EVENT GRID



- Event Broker
- Publish/Subscribe
- Push
- System Events
- Custom Events
- Subscriptions
- Topics
- Source
- Handlers



Source: <https://learn.microsoft.com/en-us/azure/event-grid/overview>



FUNCTION APPS



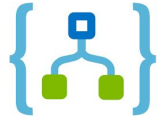
- Code First
- Multiplatform Support
- Triggers
- Bindings
- Workflows
- Local Development Experience
 - VS Code
 - Visual Studio
 - Azure Functions Core Tools
- Outsource complex logic from ADF to Functions

```
[FunctionName("PreProcessingFunction")]
public static async Task<IActionResult> Run(
    [HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)] HttpRequest req,
    ILogger log)
{
    log.LogInformation("Complex Business Logic or Pre-Processing Logic");

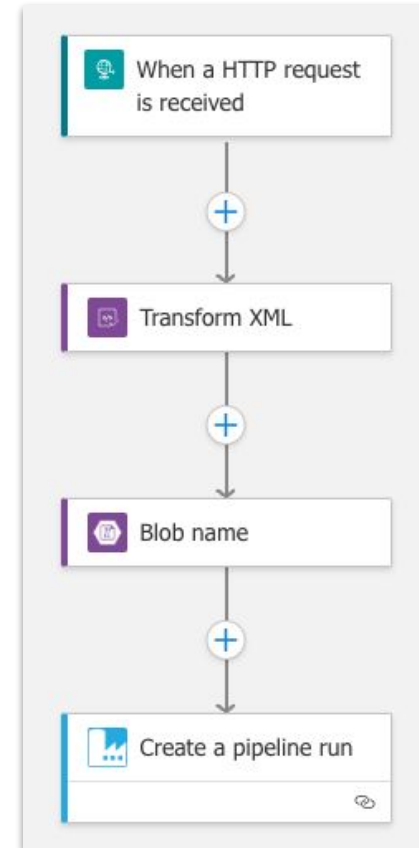
    string responseMessage = "response from PreProcessingFunction";

    return new OkObjectResult(responseMessage);
}
```

LOGIC APPS



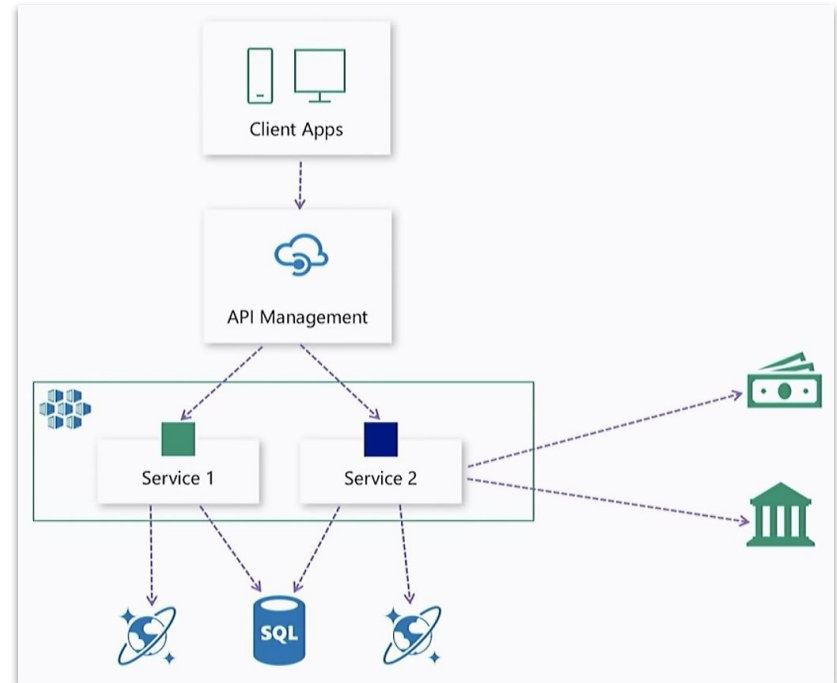
- Design First
- Triggers
- Actions
- Conditions
- Loops
- Data Connectors
- Workflows
- Orchestrate Cloud- and On-Premise Services
- B2B/EDI Capabilities
- Local Development Experience



API MANAGEMENT



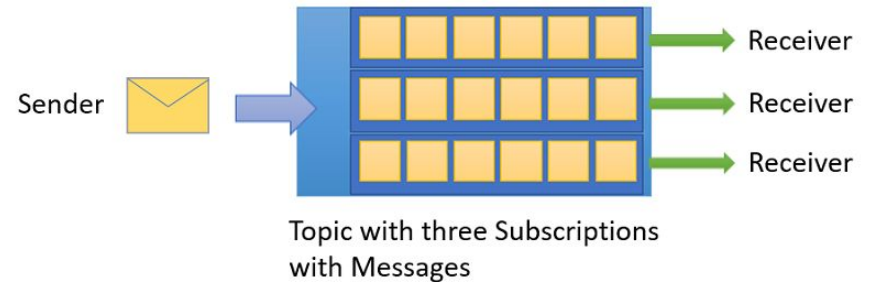
- Single Point of Entry for all Clients
 - On-Prem
 - Cloud
 - Security and Compliance
- Developer Portal
- Analytics
- Lifecycle Management
- Simplify Operations and Management
- Accessibility
- Abstraction of Boilerplate Code
 - Authorization
 - Helps to keep Business Logic clean



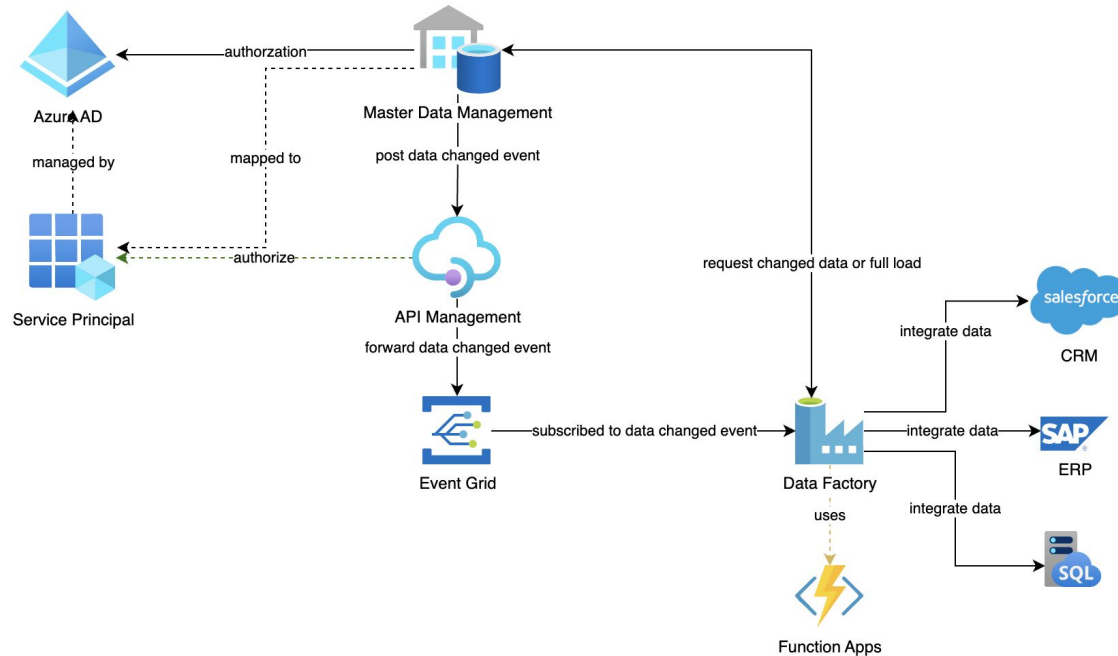
SERVICE BUS



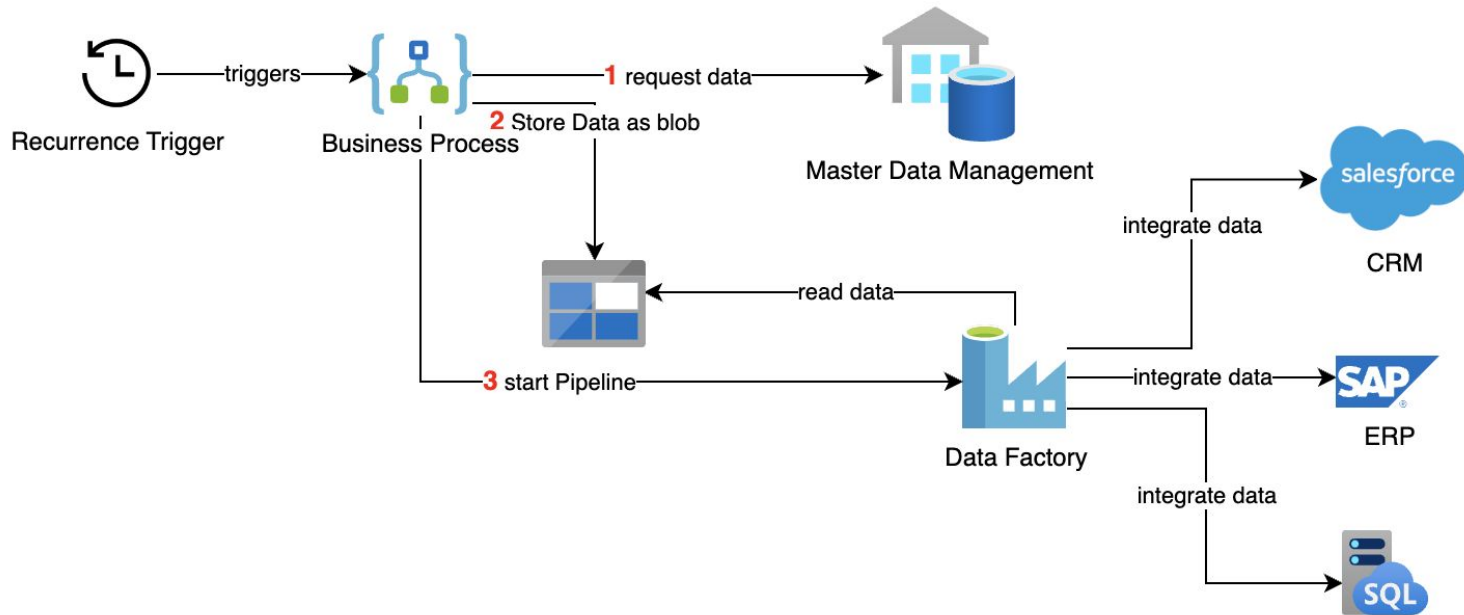
- Message Broker
- Queue
- Pub/Sub
- Decoupling Applications and Services
- Asynchronous Communication
- Downtime
- Load-balancing



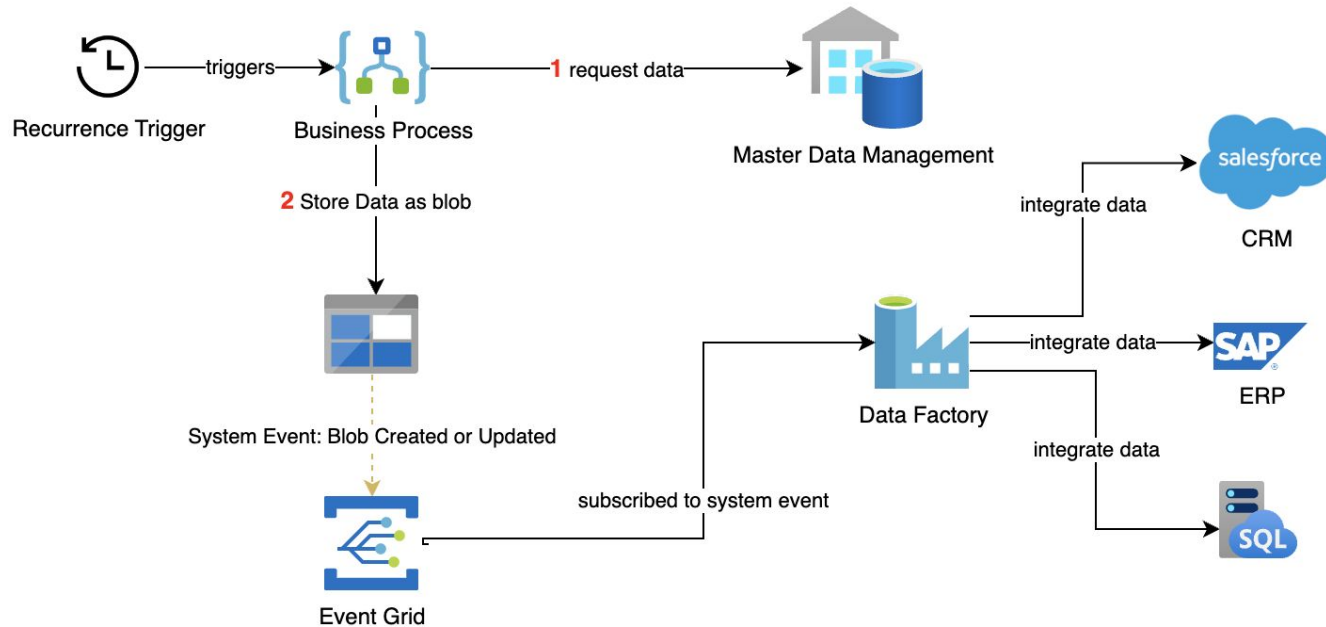
Integration Scenario (Master Data #1)



Integration Scenario (Master Data #2)



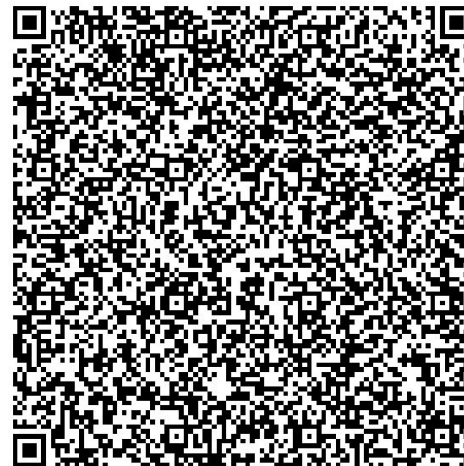
Integration Scenario (Master Data #3)





THANKS FOR YOUR ATTENTION

Any Questions?



VCard: Sebastian Meyer