Architectzure Diagram  
  
**flowchart** TD

**subgraph** AzureLandingZone["Landing Zone & Security"]

AAD[Entra ID RBAC / MI]

KV[Key Vault CMK]

VNET[Hub VNet + Private Endpoints]

**end**

**subgraph** DataLake["ADLS Gen2 (Medallion)"]

RAW[(raw)]

SILVER[(silver)]

GOLD[(gold)]

LOGS[(logs/checkpoints)]

**end**

**subgraph** Databricks["Azure Databricks + Unity Catalog"]

UC[Unity Catalog catalog=aml, raw/silver/gold schemas]

DLT[Delta Live Tables ingestion + rules ]

ML[MLflow / Model Registry Triage Model]

**end**

**subgraph** ExternalSources["Source Systems"]

CORE[Core Banking / Payments]

KYC[KYC / CRM]

WL[Sanctions Lists OFAC/EU/SECO APIs]

**end**

**subgraph** Analytics["Serving & BI"]

SYN[Synapse Serverless SQL views on gold]

PBI[Power BI Dashboards]

**end**

**subgraph** CaseMgmt["Case Management"]

SQLDB[(Azure SQL DB\naml.cases)]

PAPP[Power Apps / Power Automate]

**end**

%% Ingestion flows

CORE **-->**|ADF / Streaming| RAW

KYC **-->**|ADF / Streaming| RAW

WL **-->**|ADF Copy| RAW

%% Databricks pipelines

RAW **-->**|DLT Ingestion| SILVER

SILVER **-->**|DLT Rules + Enrichment| GOLD

UC **-->** DLT

DLT **-->** GOLD

GOLD **-->**|Delta CDF| SQLDB

%% ML loop

GOLD **-->** ML

SQLDB **-->** ML

ML **-->**|Batch Scoring| GOLD

%% Serving

GOLD **-->** SYN **-->** PBI

%% Case integration

SQLDB **<-->** PAPP

PBI **-->**|Investigators| PAPP

%% Security context

KV **-->** Databricks

KV **-->** DataLake

AAD **-->** Databricks

AAD **-->** PAPP

VNET **-->** DataLake

VNET **-->** Databricks

VNET **-->** SYN

VNET **-->** SQLDB