

Serverless Data Architect

The 500-Chapter Master Course

durgaanalytics.com/serverless_data

Enterprise-Grade Curriculum for Databricks,
Snowflake, BigQuery & Lakehouse Architectures.

Course Snapshot: Capacity Building at Scale



500

Chapters (20 Modules × 25 Chapters)



50%

Hands-on Labs (Databricks Notebooks & CI/CD)



3

Major Platforms (Databricks, Snowflake, BigQuery)

The Deliverables

- Production-ready Terraform templates
- Architecture diagram packs
- Governance policies & security runbooks

**Designed for Self-Paced
Learners & Corporate Cohorts.**

Strategic Pillar 1: Foundations & Multi-Cloud Strategy

Modules 1, 6, 7

Evolution

Moving from Data Warehouse (DW) → Data Lake → Lakehouse

Core Concepts

Stateless Compute, Event-driven architecture, Storage vs. Compute separation

Economic Strategy

Understanding pricing behaviors, cost scale, and concurrency

Infrastructure Foundation

AWS

Object Storage Backbones
(S3/ADLS/GCS)

Azure

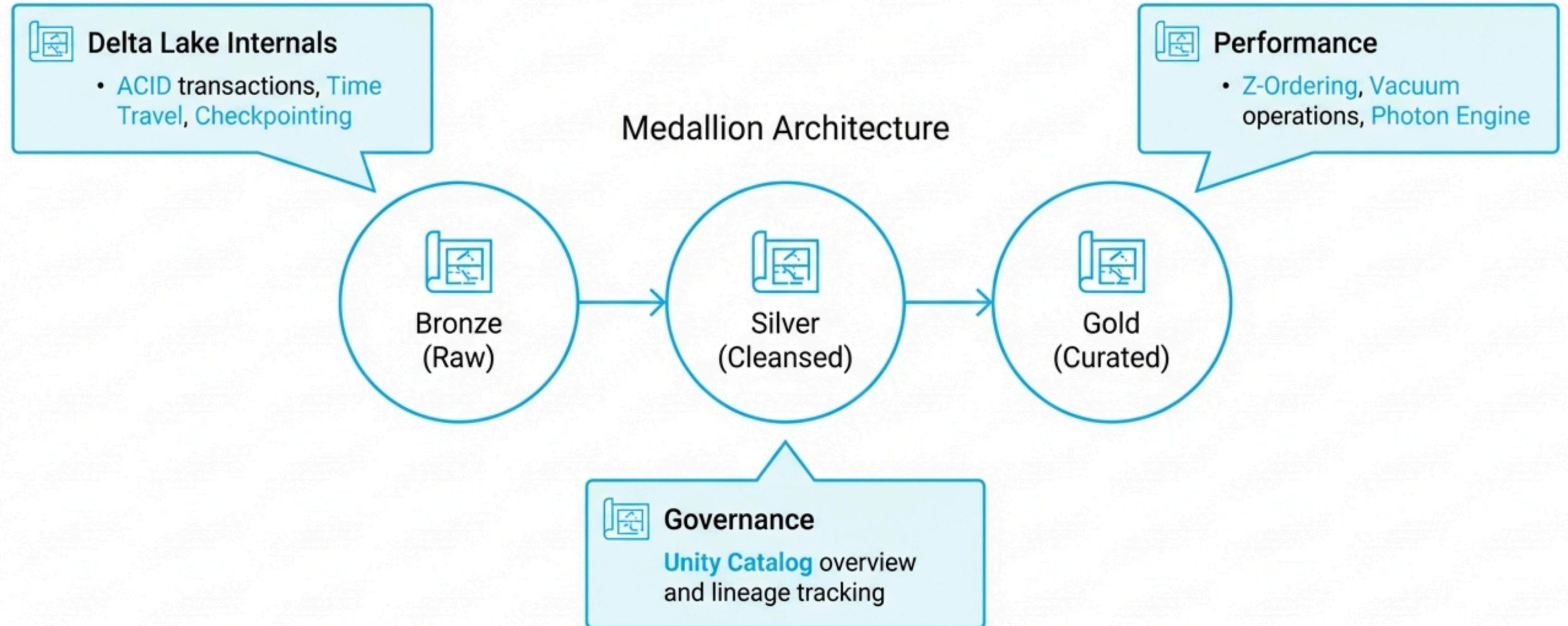
Object Storage Backbones
(S3/ADLS/GCS)

GCP

Object Storage Backbones
(S3/ADLS/GCS)

Strategic Pillar 2: The Lakehouse Core (Databricks & Delta)

Modules 2, 3, 4

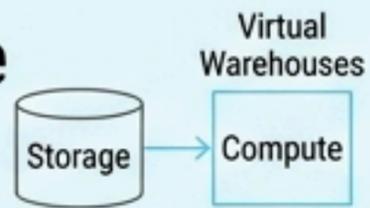


Strategic Pillar 3: Multi-Platform Competency

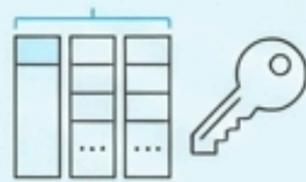
Modules 6, 7

Snowflake Architecture

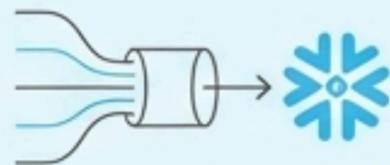
- Separation of Storage/Compute (Virtual Warehouses)



- Micro-partitions and Clustering Keys

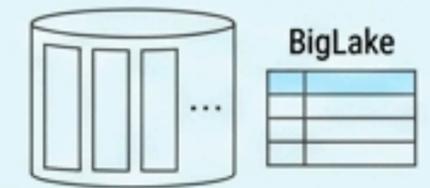


- Snowpipe for continuous ingestion

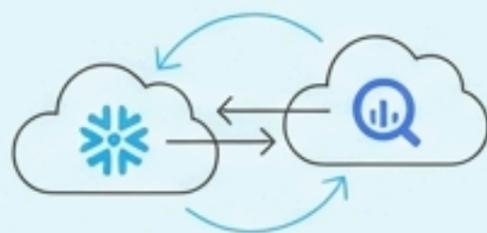
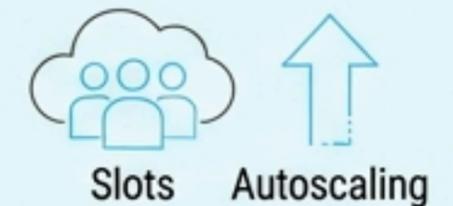


Google BigQuery Architecture

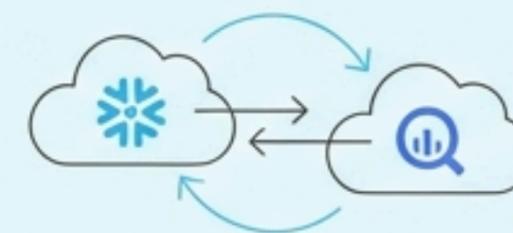
- Capacitor storage format and BigLake tables



- Slots, Reservations, and Autoscaling logic



Interoperability
Cross-cloud integration patterns.



Strategic Pillar 4: Engineering at Scale

Modules 5, 8, 9



Strategic Pillar 5: Enterprise Governance & Security

Module 10



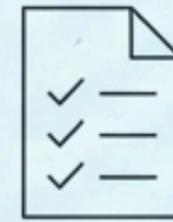
Access Control

RBAC vs ABAC access control.
Unity Catalog Governance.



Data Protection

Row-level filtering. Column-level security.
Zero Trust Architecture.
Encryption Key Management.

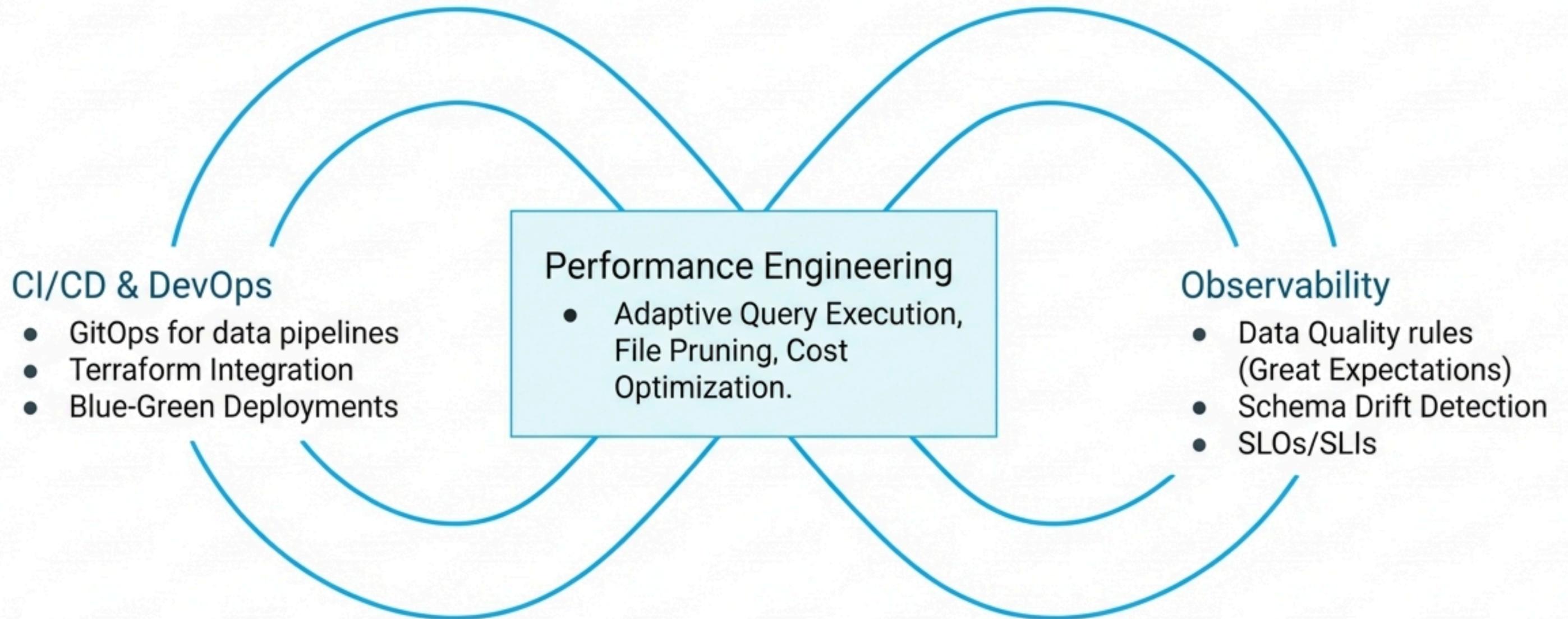


Compliance

Mapping to GDPR, SOC2, and HIPAA.
Cross-border data residency.
PII masking.

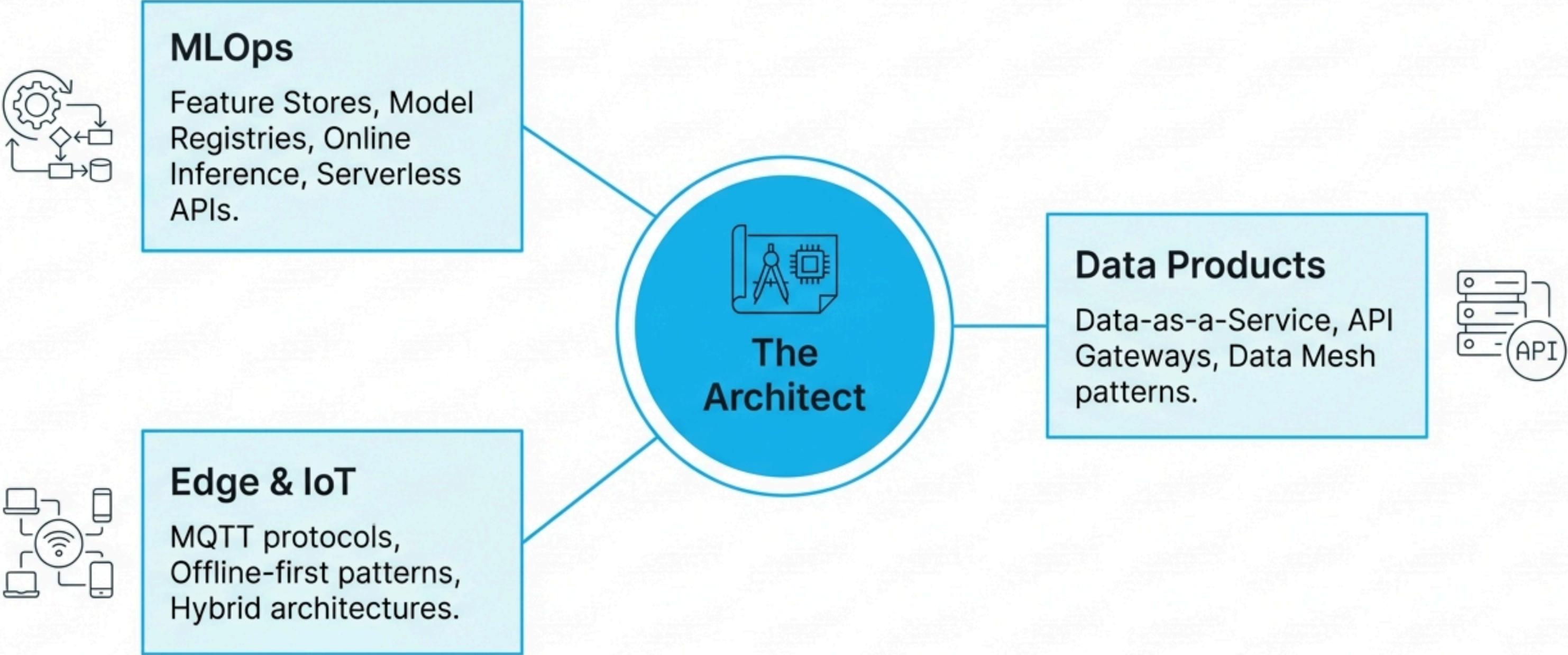
Strategic Pillar 6: Operational Excellence

Modules 11, 12, 13



Strategic Pillar 7: Advanced Intelligence & The Edge

Modules 14, 15, 16

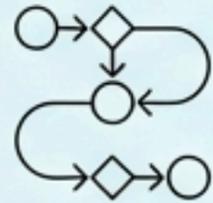


The Ecosystem Integration Blueprint

Module 17

Orchestration

Airflow
Prefect
dbt



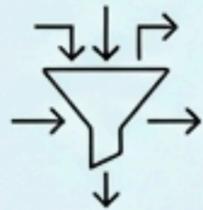
Quality & Observability

Great Expectations
Deequ
Prometheus
Grafana
Datadog



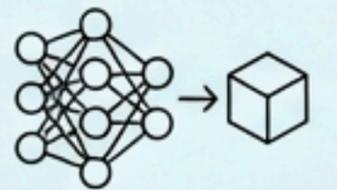
Ingestion

Fivetran
Airbyte
Kafka Connect



ML Tooling

MLflow
Seldon



Outcome: Students build a 'Tooling Integration Blueprint' connecting these services.

Applied Mastery: Case Studies & The Enterprise Pack

Industry Case Studies



- Fintech Real-time Risk Platform



- Retail Personalization at Scale



- Energy Grid Forecasting



- Healthcare Data Lakehouse

The Template Library (Included)



- Architecture Diagram Template Packs



- Terraform Modules & IaC Examples



- Cost Estimation Worksheets



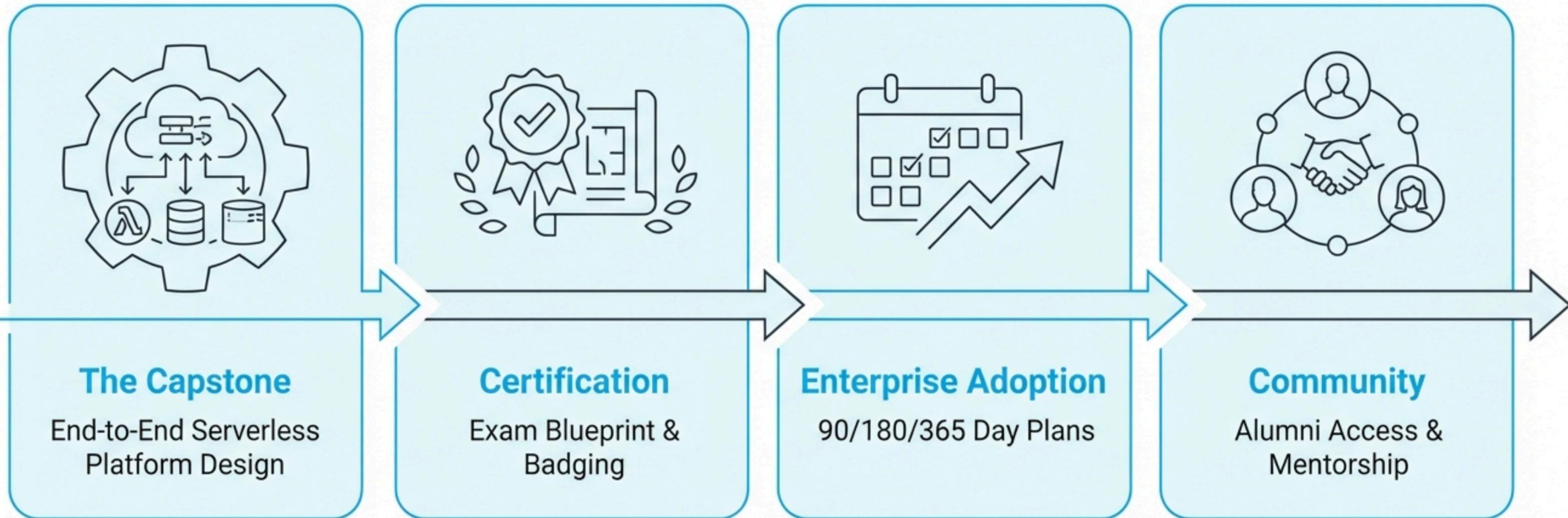
- Security Policy & Governance Playbooks



- Vendor Evaluation RFP Templates

Certification & Career Roadmap

Module 20



Follow the structured path to expertise and professional growth.

Flexible Delivery Models

| Self-Paced | Pro (Enterprise Pack) | Enterprise Cohorts |
|--|---|--|
| <p> On-demand access to Videos, PDFs, Podcasts.</p> <p> Full 500-chapter curriculum.</p> | <p> Everything in Self-Paced</p> <p> Instructor-led sessions.</p> <p> Access to Template Library & Runbooks.</p> | <p> Custom delivery for teams.</p> <p> Tailored labs & project briefs.</p> |

Built by Practitioners



Created by architects with deep expertise in cloud-native design, serverless pipelines, and governance automation. We focus on realistic datasets, not just “Hello World” examples.

- Rigorous Labs
- Incident Response Runbooks
- ‘Red Team’ Security Scenarios

Start Your Architectural Journey

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