

Data Pipelines: Workflow and Dataflow for Today's Architectures

Course Outline

Part One: Today's Data Challenges

Variety and Complexity

Sources

Ingestion

Persistence

Management Topology

Utility

Use Cases

Time to Value

Storing Data

From Origin to Destination

Finding Data

Learning about Data

Data Cataloging

Data Preparation

Analysis and Communication

Part Two: Modern Data Solutions

Growth and Scalability

Data Scalability

Process Scalability

People Scalability

Analytic Scalability

Rethinking Data Architecture

Persistence and Topology

Data Flow

Services

Governance

What does this mean for your architecture?

Building for the Future

Future of Databases

Future of Data

Future of Analytics

Part Three: Data Pipeline Design

The Big Picture

Pipeline Components

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Data Pipelines Course Outline

Destination

Purpose and End Point

Timeliness

Origin

Data Supply and Begin Point Data Type and Velocity

Data Flow

Data in Motion

Pipeline Boundaries

Blending Batch and Real Time

Data Storage

Data at Rest

Choosing Data Storage

Processing

Data Products and Data Value

Ingestion

Persistence

Transformation

Delivery

Workflow

Sequence of Activities

Monitoring

Pipeline Health

Technology

Pipeline Tools

Abundance of Tools

Design Summary

7 Steps

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