
INSIGHTFULSAGA

CERTIFICATION PREPARATION SERIES

APACHE AIRFLOW

CERTIFICATION PREPARATION

Complete Practice Workbook

Practice Tests Comprehensive Question Bank Verified Explanations

"Prepare Smarter. Practice With Purpose."

WORKBOOK SCOPE & COVERAGE

12 Complete Practice Tests covering Questions 1 to 250 (250 total questions)

Core architectural concepts, production scenarios, performance, and security questions

Verified answer keys with concise technical explanations and architectural rationales

Formatted as a high-density, printable technical reference workbook for exam preparation

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APACHE AIRFLOW CERTIFICATION PRACTICE TEST 01

Foundation Questions Questions 1 20 (20 Questions)

QUESTION 1

A newly joined Data Engineer at a retail company notices that every night several ETL jobs execute in a predefined sequence.

Management wants these activities organized and scheduled from a central platform.

What Apache Airflow concept should the engineer learn first?

- A. DAG
- B. XCom
- C. Variable
- D. Pool

ANSWER

A. DAG

EXPLANATION

A DAG (Directed Acyclic Graph) defines the workflow structure, task dependencies and execution order.

QUESTION 2

A banking company uses Airflow to orchestrate a daily data pipeline.

The pipeline contains:

- Extract Customer Data
- Transform Customer Data
- Load Customer Data

Each individual step is represented by what Airflow component?

- A. Task
- B. Scheduler
- C. Worker
- D. Pool

ANSWER**A. Task**

QUESTION 3

A newly hired Data Engineer hears team members discussing DAG execution every day at 1:00 AM. Which Airflow component is responsible for determining when workflows should run?

- A. Scheduler
- B. Webserver
- C. Worker
- D. Connection

ANSWER**A. Scheduler**

QUESTION 4

A healthcare company has multiple Airflow pipelines. Engineers want a user interface where workflow runs can be monitored. Which Airflow component provides this capability?

- A. Web UI
- B. Sensor
- C. Hook
- D. Trigger Rule

ANSWER**A. Web UI**

QUESTION 5

A retail company wants a task that executes Python code to clean incoming sales data. Which operator should be considered?

- A. PythonOperator
- B. BashOperator
- C. EmailOperator
- D. Sensor

ANSWER**A. PythonOperator**

QUESTION 6

A company wants to execute a Linux shell command from Airflow. Which operator best fits this requirement?

- A. BashOperator
- B. DummyOperator
- C. PythonOperator
- D. TriggerDagRunOperator

ANSWER**A. BashOperator**

QUESTION 7

A newly joined engineer asks:
"What Airflow component actually executes tasks once the Scheduler decides they should run?"
What is the correct answer?

- A. Worker
- B. Variable
- C. Connection

D. DAG

ANSWER

A. Worker

QUESTION 8

An airline company wants one task to run only after another task completes successfully. What Airflow concept is being defined?

- A. Dependency
- B. Variable
- C. XCom
- D. Pool

ANSWER

A. Dependency

QUESTION 9

A Data Engineer wants to reuse database credentials across multiple DAGs. Which Airflow feature should be configured?

- A. Connection
- B. Task Group
- C. Pool
- D. Sensor

ANSWER

A. Connection

QUESTION 10

A banking company stores environment-specific configuration values such as:

- File Paths
- Bucket Names
- API Endpoints

Which Airflow feature is most suitable?

- A. Variable
- B. Worker
- C. Scheduler
- D. Hook

ANSWER

A. Variable

QUESTION 11

A task needs to pass a generated file name to a downstream task.

Which Airflow mechanism supports this?

- A. XCom
- B. Pool
- C. Trigger Rule
- D. Queue

ANSWER

A. XCom

QUESTION 12

A healthcare organization wants an Airflow task to wait until a source file arrives.

Which Airflow construct is commonly used?

- A. Sensor
- B. Hook
- C. Connection
- D. Variable

ANSWER**A. Sensor**

QUESTION 13

A company wants Airflow to connect to Snowflake.

What Airflow capability manages the connection details?

- A. Connection
- B. Scheduler
- C. XCom
- D. Pool

ANSWER**A. Connection**

QUESTION 14

A newly hired engineer notices Airflow workflow definitions are written in Python.

What are these workflow definitions called?

- A. DAGs
- B. Variables
- C. Connections
- D. Pools

ANSWER**A. DAGs**

QUESTION 15

A retail pipeline failed overnight.

The support engineer wants to manually rerun the workflow.

Which Airflow capability supports this?

- A. DAG Trigger
- B. XCom
- C. Pool
- D. Hook

ANSWER**A. DAG Trigger**

QUESTION 16

A company executes thousands of workflows.

Management wants visibility into:

- Successes
- Failures
- Runtime

Which Airflow component helps most?

- A. Monitoring UI
- B. Variable
- C. Connection
- D. Hook

ANSWER**A. Monitoring UI**

QUESTION 17

A Data Engineer wants to group related tasks visually in the Airflow UI.

Which feature should be evaluated?

- A. Task Group
- B. Connection
- C. Variable
- D. Sensor

ANSWER**A. Task Group**

QUESTION 18

An ETL workflow should start every day at 6 AM.

Which Airflow concept controls this behavior?

- A. Schedule
- B. XCom
- C. Pool
- D. Hook

ANSWER**A. Schedule**

QUESTION 19

A company wants to prevent unlimited concurrent workload execution.

Which Airflow feature can restrict resource usage?

- A. Pool
- B. XCom
- C. Sensor
- D. Variable

ANSWER**A. Pool**

QUESTION 20

A newly joined Airflow Administrator is asked:

"What is the primary purpose of Apache Airflow?"

Choose the BEST answer.

- A. Workflow Orchestration
- B. Data Storage
- C. Data Warehousing
- D. Reporting

ANSWER**A. Workflow Orchestration****EXPLANATION**

Apache Airflow is designed to schedule, orchestrate, monitor and manage workflows across data platforms.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 02

Core Workflow Concepts and Integration Scenarios Questions 21 40 (20 Questions)

QUESTION 21

A newly joined Data Engineer at a retail company discovers that daily sales files arrive at unpredictable times.

The ETL workflow should not begin until the file is available in cloud storage.

The engineering team does not want to continuously run failed tasks while waiting for the file.

What Airflow capability should be implemented?

- A. Sensor
- B. Variable
- C. XCom
- D. Pool

ANSWER**A. Sensor****EXPLANATION**

Sensors continuously check for a condition, such as file availability, before allowing downstream tasks to execute.

QUESTION 22

A banking company stores Snowflake credentials centrally. Multiple DAGs need to connect to the same Snowflake environment. What is the BEST Airflow approach?

- A. Hardcode credentials in every DAG
- B. Use Connections
- C. Store credentials in XCom
- D. Pass credentials through Variables

ANSWER

B. Use Connections

QUESTION 23

A healthcare company has an extraction task that generates a report filename dynamically. A downstream loading task must use the generated filename. Which Airflow mechanism should be used?

- A. Pool
- B. XCom
- C. Hook
- D. Schedule

ANSWER

B. XCom

EXPLANATION

XCom allows tasks to exchange small pieces of information.

QUESTION 24

A logistics company wants a DAG to run every day at 2:00 AM. What Airflow feature controls when the DAG starts?

- A. Schedule
- B. Sensor
- C. Hook
- D. Queue

ANSWER

A. Schedule

QUESTION 25

A telecom company uses Airflow to connect with:

- Snowflake
- Kafka
- AWS S3
- PostgreSQL

What Airflow component provides reusable integration logic?

- A. Hook
- B. Pool
- C. Variable
- D. Trigger Rule

ANSWER

A. Hook

EXPLANATION

Hooks provide reusable interfaces for external systems.

QUESTION 26

A newly hired Data Engineer notices hardcoded bucket names in several DAGs.

The company frequently changes environments between:

- Dev
- QA
- Production

What should be used instead?

- A. Variables
- B. Sensors
- C. XComs
- D. Pools

ANSWER

A. Variables

QUESTION 27

A retail company receives data from multiple vendors.

A workflow should retry automatically if a temporary network issue occurs during ingestion.

Which Airflow capability should be configured?

- A. Retry Policy
- B. Pool
- C. Queue
- D. Trigger Rule

ANSWER

A. Retry Policy

QUESTION 28

A company accidentally shut down a source system for two days.

After recovery, management wants Airflow to process all missed schedule runs.

Which concept should be evaluated?

- A. Backfill
- B. Hook
- C. Pool
- D. Variable

ANSWER

A. Backfill

QUESTION 29

A newly joined Engineer notices dozens of tasks simultaneously connecting to a legacy source database.

The database becomes overloaded during DAG execution.

What Airflow feature can limit concurrent task execution?

- A. Pool
- B. XCom
- C. Hook
- D. Variable

ANSWER

A. Pool

EXPLANATION

Pools restrict the number of tasks using a shared resource.

QUESTION 30

A manufacturing company wants environment-specific configurations stored centrally.

Examples include:

- Email Recipients
- Storage Paths
- API Endpoints

Which Airflow feature best fits?

- A. Variables
- B. Sensors
- C. Pools
- D. Queues

ANSWER**A. Variables**

QUESTION 31

An airline company wants an Airflow DAG to trigger another DAG after successful completion. Which Airflow capability should be considered?

- A. TriggerDagRunOperator
- B. Sensor
- C. Pool
- D. Variable

ANSWER**A. TriggerDagRunOperator**

QUESTION 32

A support engineer notices that a DAG keeps running old historical execution dates unexpectedly. Management only wants future schedules to execute. Which Airflow configuration should be reviewed?

- A. Catchup
- B. Connection
- C. Pool
- D. XCom

ANSWER**A. Catchup****EXPLANATION**

Catchup controls whether missed historical schedules are generated.

QUESTION 33

A healthcare company requires automatic email notifications whenever a critical DAG fails. Which Airflow capability should be configured?

- A. Failure Alerts
- B. Hook
- C. Variable
- D. Queue

ANSWER**A. Failure Alerts**

QUESTION 34

A financial institution wants to ensure downstream tasks run only when upstream tasks succeed. Which Airflow concept handles this behavior?

- A. Trigger Rules
- B. Variables
- C. Pools
- D. Hooks

ANSWER**A. Trigger Rules**

QUESTION 35

A retail company has a task that extracts data from Snowflake. The same extraction logic is reused across multiple DAGs. Which Airflow design principle should be followed?

- A. Reusable Components

- B. Copy-Paste Development
- C. Hardcoded Logic
- D. Independent Scripts

ANSWER**A. Reusable Components**

QUESTION 36

A newly hired engineer wants to see task execution history for troubleshooting.
Where should they start?

- A. Airflow UI
- B. Variable Screen
- C. Connection Screen
- D. Pool Configuration

ANSWER**A. Airflow UI**

QUESTION 37

A telecom company has a workflow that waits for a Kafka topic to receive data before processing begins.
What Airflow construct is most appropriate?

- A. Sensor
- B. XCom
- C. Pool
- D. Queue

ANSWER**A. Sensor**

QUESTION 38

A company wants a downstream task to execute even if one upstream task fails but another succeeds.
Which Airflow configuration should be reviewed?

- A. Trigger Rule
- B. Variable
- C. Hook
- D. Connection

ANSWER**A. Trigger Rule**

QUESTION 39

A support engineer notices a DAG run failed due to a temporary API outage.
The API became available again five minutes later.
Which feature could have prevented manual intervention?

- A. Retry Configuration
- B. Additional Pools
- C. More Variables
- D. More Connections

ANSWER**A. Retry Configuration**

QUESTION 40

A newly joined Airflow Engineer reviews a production workflow:

1. Wait for Source File
2. Extract Data
3. Transform Data
4. Load Data
5. Send Notification

What is the MOST important Airflow principle demonstrated here?

- A. Workflow Orchestration
- B. Data Warehousing
- C. Data Versioning
- D. Query Optimization

ANSWER**A. Workflow Orchestration****EXPLANATION**

Airflow's primary purpose is coordinating dependent tasks into reliable end-to-end workflows.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 03

Real Company Scenario Questions Questions 41 60 (20 Questions)

QUESTION 41

A newly joined Data Engineer at a global retail company is asked to support a nightly sales pipeline. The workflow currently performs the following steps:

1. Wait for sales files from 500 stores
2. Load files into cloud storage
3. Execute Databricks transformations
4. Load curated data into Snowflake
5. Refresh reporting tables

Business users complain that the workflow sometimes starts before all stores have submitted their files, resulting in incomplete reports.

What is the MOST appropriate improvement?

- A. Increase warehouse size
- B. Add file arrival Sensors before processing
- C. Disable task dependencies
- D. Add more Variables

ANSWER**B. Add file arrival Sensors before processing****EXPLANATION**

Sensors can ensure all required files arrive before downstream processing begins.

QUESTION 42

A banking company runs customer onboarding pipelines every night.

Recently, a source API has become unstable and occasionally fails for a few minutes before recovering.

Support engineers are repeatedly rerunning failed DAGs manually.

What should be implemented?

- A. Retry Configuration with Delay
- B. More Pools
- C. Additional Connections
- D. More Workers

ANSWER**A. Retry Configuration with Delay****QUESTION 43**

A healthcare company orchestrates a workflow containing:

- Extract Patient Records
- Validate Records
- Load Records
- Send Compliance Notification

Management requires the notification to be sent only if the load completes successfully.

What Airflow capability should be used?

- A. Task Dependency
- B. Pool

- C. Variable
- D. Queue

ANSWER**A. Task Dependency**

QUESTION 44

A telecommunications company processes call-detail records every hour. The workflow occasionally takes longer than expected and breaches the agreed SLA window. Management wants automatic visibility whenever this happens.

What should be configured?

- A. SLA Monitoring
- B. More Variables
- C. More DAGs
- D. Additional Connections

ANSWER**A. SLA Monitoring**

QUESTION 45

A retail company has one Airflow DAG responsible for:

- Extracting files
- Data quality checks
- Transformation
- Reporting loads
- Notifications

The DAG has become difficult to maintain because it contains more than 150 tasks.

What should be considered?

- A. Task Groups
- B. Larger Workers
- C. More Variables
- D. More Pools

ANSWER**A. Task Groups****EXPLANATION**

Task Groups help organize complex DAGs without changing execution behavior.

QUESTION 46

A newly hired Airflow Engineer reviews a workflow that loads customer data into Snowflake every night. Business users report duplicate customer records in reports.

Investigation reveals that the same DAG run was triggered twice for the same execution date.

What should be reviewed first?

- A. DAG Scheduling Logic
- B. Warehouse Size
- C. Connection Metadata
- D. Email Settings

ANSWER**A. DAG Scheduling Logic**

QUESTION 47

An airline company runs flight operations workflows in Airflow.

A downstream task depends on three upstream tasks.

Management states:

"The final reporting task should run if at least one upstream source completes successfully."

Which Airflow capability should be evaluated?

- A. Trigger Rules
- B. Variables
- C. Pools

D. Connections

ANSWER

A. Trigger Rules

QUESTION 48

A global insurance company processes claims from multiple countries.

Source systems sometimes deliver late files.

Leadership wants the orchestration platform to recover automatically once files arrive.

What Airflow capability best supports this?

- A. Sensors
- B. Variables
- C. Pools
- D. XCom

ANSWER

A. Sensors

QUESTION 49

A company has several DAGs sharing the same legacy database.

The database team requests that no more than five concurrent connections be opened at any time.

How should this requirement be enforced?

- A. Pool Configuration
- B. Trigger Rules
- C. XCom
- D. Variables

ANSWER

A. Pool Configuration

QUESTION 50

A manufacturing company orchestrates predictive maintenance pipelines.

The workflow:

1. Collect Sensor Data
2. Run Databricks Processing
3. Generate Predictions
4. Store Results in Snowflake

Management wants the entire process visible in one orchestration platform.

Why is Airflow a good fit?

- A. It orchestrates multi-system workflows
- B. It stores data
- C. It replaces Snowflake
- D. It replaces Spark

ANSWER

A. It orchestrates multi-system workflows

QUESTION 51

A newly joined Engineer notices the same extraction logic repeated in ten separate DAGs.

The company wants to reduce maintenance effort.

What is the BEST recommendation?

- A. Create reusable components
- B. Create more DAGs
- C. Add more schedules
- D. Add more Variables

ANSWER

A. Create reusable components

QUESTION 52

A finance workflow failed at 3:00 AM.

Business users must receive reports by 6:00 AM.

Management wants failed jobs automatically retried before support teams are notified.

What feature should be configured?

- A. Retry Strategy
- B. Additional Pools
- C. More XComs
- D. More Connections

ANSWER

A. Retry Strategy

QUESTION 53

A healthcare company wants operational visibility across hundreds of DAGs.

Leadership wants:

- Success Rates
- Failure Counts
- Average Runtime
- SLA Compliance

What should be implemented?

- A. Workflow Monitoring Dashboard
- B. More DAGs
- C. More Variables
- D. More Pools

ANSWER

A. Workflow Monitoring Dashboard

QUESTION 54

A retail company receives sales files from 100 suppliers.

Only after all suppliers deliver files should processing begin.

What orchestration challenge is being solved?

- A. Dependency Management
- B. Data Storage
- C. Data Modeling
- D. Data Sharing

ANSWER

A. Dependency Management

QUESTION 55

A banking company stores API credentials in plain text inside DAG code.

Security teams reject this design.

What should be used instead?

- A. Airflow Connections
- B. XCom
- C. Pools
- D. Sensors

ANSWER

A. Airflow Connections

QUESTION 56

A support engineer notices a DAG stuck for hours waiting on an external file.

What type of task is MOST likely responsible?

- A. Sensor Task
- B. PythonOperator
- C. BashOperator
- D. EmailOperator

ANSWER**A. Sensor Task**

QUESTION 57

A logistics company runs hourly logistics updates.

Engineers accidentally paused the DAG.

Business users now report missing updates.

What should be checked first?

- A. DAG Status
- B. Warehouse Configuration
- C. Pool Usage
- D. Variable Values

ANSWER**A. DAG Status**

QUESTION 58

A company has Dev, QA and Production Airflow environments.

Developers frequently hardcode environment-specific values.

Deployments often fail.

What architectural improvement should be introduced?

- A. Parameterization with Variables
- B. More Workers
- C. More DAGs
- D. More Queues

ANSWER**A. Parameterization with Variables**

QUESTION 59

A newly joined Airflow Administrator wants to understand why a DAG failed overnight.

Where should the investigation begin?

- A. Task Logs
- B. Variables
- C. Connections
- D. Pools

ANSWER**A. Task Logs**

QUESTION 60

A global enterprise uses Airflow to orchestrate:

- Snowflake
- Databricks
- Kafka
- APIs
- AWS Services

Executives ask:

"What is the biggest business value Airflow provides?"

Choose the BEST answer.

- A. End-to-End Workflow Orchestration
- B. Data Storage
- C. Data Warehousing
- D. Reporting

ANSWER**A. End-to-End Workflow Orchestration****EXPLANATION**

Airflow's primary value is coordinating and monitoring complex workflows across multiple systems and platforms.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 04

Production Support Troubleshooting Scenarios Questions 61 80 (20 Questions)

QUESTION 61

A newly joined Airflow Support Engineer receives an alert at 3:00 AM.
A critical Finance DAG failed and business reports were not generated.
The Airflow UI shows:

- DAG Run = Failed
- 1 Task Failed
- 7 Tasks Succeeded

What should the engineer do NEXT?

- A. Review failed task logs
- B. Restart all workers
- C. Delete the DAG
- D. Create a new schedule

ANSWER

A. Review failed task logs

QUESTION 62

A retail company reports missing sales data.
Investigation shows:

- DAG ran successfully
- Extraction task succeeded
- Load task processed zero records

What should the engineer investigate NEXT?

- A. Source data availability
- B. Pool configuration
- C. Airflow version
- D. Worker hostname

ANSWER

A. Source data availability

QUESTION 63

An Airflow DAG was expected to run at 1:00 AM but no DAG run exists.
What should the engineer verify FIRST?

- A. DAG is unpaused
- B. XCom values
- C. Task Groups
- D. Pool slots

ANSWER

A. DAG is unpaused

QUESTION 64

A healthcare workflow has been stuck in "queued" state for 45 minutes.
Many other workflows are running normally.
What should be reviewed first?

- A. Pool availability
- B. Variable values
- C. XCom messages
- D. Trigger rules

ANSWER

A. Pool availability

QUESTION 65

A banking pipeline is failing every day at the same task.
The task calls an external API.
Logs show repeated connection timeout errors.
What should be recommended?

- A. Retry strategy with backoff
- B. More DAGs
- C. More Variables
- D. Remove dependencies

ANSWER

A. Retry strategy with backoff

QUESTION 66

An airline company notices the Scheduler is healthy but newly added DAGs are not appearing in Airflow.
What should be verified next?

- A. DAG file deployment location
- B. Pool count
- C. XCom size
- D. Worker memory only

ANSWER

A. DAG file deployment location

QUESTION 67

A support engineer receives an SLA breach alert.
The workflow completed successfully but exceeded the required completion time.
What should be reviewed first?

- A. Long-running tasks
- B. Role hierarchy
- C. Variable names
- D. DAG description

ANSWER

A. Long-running tasks

QUESTION 68

A retail company executes a DAG every hour.
Business users report data duplication.
Investigation reveals the DAG executed twice for the same schedule interval.
What should be checked?

- A. Trigger history
- B. XCom cleanup
- C. Pool count
- D. Connection metadata

ANSWER

A. Trigger history

QUESTION 69

A task waits for a file to arrive using a Sensor.
The file never arrives.
What is the MOST likely reason for the DAG remaining active for hours?

- A. Sensor waiting condition
- B. Variable corruption
- C. Pool overflow
- D. Trigger rule issue

ANSWER

A. Sensor waiting condition

QUESTION 70

A manufacturing workflow is failing after a source system schema change.
What should engineers review first?

- A. Upstream schema modifications
- B. Queue settings
- C. Worker names
- D. DAG documentation

ANSWER

A. Upstream schema modifications

QUESTION 71

A task succeeds when executed manually but fails in scheduled execution.
What should the support engineer investigate first?

- A. Runtime environment differences
- B. DAG color
- C. Pool description
- D. Airflow logo version

ANSWER

A. Runtime environment differences

QUESTION 72

A company notices workers are running at 100% utilization continuously.
Users report growing delays.
What should be reviewed next?

- A. Worker capacity planning
- B. Variable values
- C. Task Groups
- D. DAG tags

ANSWER

A. Worker capacity planning

QUESTION 73

A banking workflow completed successfully.
However, customers complain that reports were never received.
Which component should be checked first?

- A. Notification task
- B. Scheduler
- C. Worker startup
- D. DAG tags

ANSWER

A. Notification task

QUESTION 74

A healthcare ETL workflow stopped processing records three days ago.
The DAG still reports success.
What should engineers investigate?

- A. Business output validation
- B. DAG descriptions
- C. Airflow UI theme
- D. Queue names

ANSWER

A. Business output validation

QUESTION 75

An Airflow deployment suddenly processes historical schedules from two months ago.
What configuration should be reviewed?

- A. Catchup setting
- B. Email settings
- C. Pool slots
- D. Trigger rules

ANSWER

A. Catchup setting

QUESTION 76

A finance DAG fails intermittently.
The same code sometimes succeeds and sometimes fails.
What category of issue should be investigated first?

- A. Environmental instability
- B. DAG naming
- C. Pool descriptions
- D. Documentation accuracy

ANSWER

A. Environmental instability

QUESTION 77

A support engineer sees thousands of queued tasks but very few running tasks.
What should be reviewed immediately?

- A. Worker availability
- B. XCom payload size
- C. DAG tags
- D. Variables

ANSWER

A. Worker availability

QUESTION 78

A business team reports yesterday's processing never occurred.
No DAG runs exist for the missed date.
What should be investigated first?

- A. Scheduler activity
- B. XCom cleanup
- C. Trigger rules
- D. Pool management

ANSWER

A. Scheduler activity

QUESTION 79

A retail company wants quicker recovery from overnight failures.
What should be implemented first?

- A. Automated alerting
- B. More DAGs
- C. Additional Variables
- D. More Task Groups

ANSWER

A. Automated alerting

QUESTION 80

A newly promoted Airflow Support Lead is asked:

"What is the first responsibility during an incident?"

Choose the BEST answer.

- A. Identify impact and isolate the failure
- B. Rewrite the DAG immediately
- C. Create a new Airflow environment
- D. Deploy unrelated fixes

ANSWER

A. Identify impact and isolate the failure

EXPLANATION

Effective incident response starts with understanding business impact, identifying the failing component, and narrowing the scope of investigation before applying corrective actions.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 05

Select All That Apply Questions Questions 81 100 (20 Questions)

QUESTION 81

A newly joined Data Engineer reviews a production Airflow platform supporting hundreds of daily workflows.

Management wants to improve reliability.

Which actions should be considered?

- Configure retries
- Implement alerting
- Add monitoring
- Define SLA expectations
- Disable logging
- Remove dependencies

ANSWER

Configure retries
Implement alerting
Add monitoring
Define SLA expectations

QUESTION 82

A retail company experiences frequent DAG failures due to temporary API outages.

Which approaches may reduce operational incidents?

- Retry logic
- Exponential backoff
- Timeout configuration
- Error handling
- Manual reruns only
- Disable failure notifications

ANSWER

Retry logic
Exponential backoff
Timeout configuration
Error handling

QUESTION 83

A banking company wants stronger production monitoring.

Which metrics should be tracked?

- DAG success rate
- Task failure count
- Average runtime

- SLA breaches
- UI color scheme
- DAG descriptions

ANSWER

- DAG success rate**
- Task failure count**
- Average runtime**
- SLA breaches**

QUESTION 84

A healthcare company wants production DAGs to be easier to maintain.
Which design practices should be followed?

- Modular task design
- Reusable code
- Standard naming conventions
- Documentation
- Hardcoded configurations
- Duplicate logic

ANSWER

- Modular task design**
- Reusable code**
- Standard naming conventions**
- Documentation**

QUESTION 85

A company uses Airflow to orchestrate Snowflake, Databricks and API workflows.
Which benefits does Airflow provide?

- Workflow orchestration
- Dependency management
- Scheduling
- Monitoring
- Data storage
- Data warehouse functionality

ANSWER

- Workflow orchestration**
- Dependency management**
- Scheduling**
- Monitoring**

QUESTION 86

A support engineer investigates why tasks remain queued.
Which areas should be reviewed?

- Worker availability
- Pool availability
- Executor capacity
- Scheduler health
- Dashboard colors
- DAG tags

ANSWER

- Worker availability**
- Pool availability**
- Executor capacity**
- Scheduler health**

QUESTION 87

A newly hired Airflow Administrator wants secure credential management.
Which practices should be adopted?

- Airflow Connections
- Secrets Management
- Least Privilege Access
- Credential Rotation
- Hardcoded passwords
- Shared credentials

ANSWER

- Airflow Connections**
 - Secrets Management**
 - Least Privilege Access**
 - Credential Rotation**
-

QUESTION 88

A global retailer experiences increasing workflow volumes every month.
Which factors should be evaluated during scaling reviews?

- Worker capacity
- Scheduler performance
- DAG growth
- Task concurrency
- Logo updates
- UI themes

ANSWER

- Worker capacity**
 - Scheduler performance**
 - DAG growth**
 - Task concurrency**
-

QUESTION 89

A healthcare company wants faster incident resolution.
Which capabilities support this goal?

- Alerting
- Centralized logging
- Runbooks
- Monitoring dashboards
- Hidden errors
- Manual discovery

ANSWER

- Alerting**
 - Centralized logging**
 - Runbooks**
 - Monitoring dashboards**
-

QUESTION 90

A company has multiple DAGs accessing a mainframe system.
The mainframe team limits concurrent requests.
Which Airflow capabilities help enforce this?

- Pools
- Task concurrency limits
- Queue management
- Dependency controls
- Variables
- XCom

ANSWER

- Pools**

Task concurrency limits
Queue management**QUESTION 91**

A banking company wants resilient workflow execution.
Which characteristics should production DAGs include?

- Retry policies
- Timeouts
- Failure alerts
- Error handling
- Infinite task execution
- Missing monitoring

ANSWER

- Retry policies**
- Timeouts**
- Failure alerts**
- Error handling**

QUESTION 92

A newly joined Engineer reviews a DAG with 200 tasks in a single layout.
Which improvements may help maintainability?

- Task Groups
- Logical segmentation
- Reusable operators
- Documentation
- Larger DAG files only
- Duplicate workflows

ANSWER

- Task Groups**
- Logical segmentation**
- Reusable operators**
- Documentation**

QUESTION 93

A support team wants proactive notifications before business users raise tickets.
Which mechanisms support this?

- SLA alerts
- Failure notifications
- Monitoring dashboards
- Runtime tracking
- Manual checks only
- Random audits

ANSWER

- SLA alerts**
- Failure notifications**
- Monitoring dashboards**
- Runtime tracking**

QUESTION 94

A telecom company processes terabytes of data daily.
Management worries about missed schedules.
Which areas should be monitored?

- Scheduler health
- DAG execution history
- Worker utilization
- Queue backlog
- Airflow logo

Task labels

ANSWER

Scheduler health
DAG execution history
Worker utilization
Queue backlog

QUESTION 95

A company wants Airflow deployments promoted safely across Dev, QA and Production.

Which practices support this?

Version control
Code review
Automated testing
CI/CD pipelines
Direct production edits
Shared development accounts

ANSWER

Version control
Code review
Automated testing
CI/CD pipelines

QUESTION 96

A production workflow missed several schedules because Airflow was down.

Which actions may be required afterwards?

Backfill processing
Data validation
Impact analysis
Stakeholder communication
Delete DAG history
Remove alerts

ANSWER

Backfill processing
Data validation
Impact analysis
Stakeholder communication

QUESTION 97

A company wants enterprise-grade Airflow governance.

Which capabilities should exist?

Ownership definitions
Documentation
Operational standards
Monitoring standards
Unknown responsibilities
Uncontrolled deployments

ANSWER

Ownership definitions
Documentation
Operational standards
Monitoring standards

QUESTION 98

A manufacturing company relies heavily on Airflow.

Which operational risks should be reviewed periodically?

- Single points of failure
- Capacity limitations
- Dependency failures
- Alert coverage gaps
- UI background color
- DAG naming preferences

ANSWER

- Single points of failure**
- Capacity limitations**
- Dependency failures**
- Alert coverage gaps**

QUESTION 99

A support engineer performs root cause analysis after a workflow outage.

Which information sources are useful?

- Task logs
- Scheduler logs
- Worker logs
- Monitoring systems
- Screen resolution
- Browser bookmarks

ANSWER

- Task logs**
- Scheduler logs**
- Worker logs**
- Monitoring systems**

QUESTION 100

A newly hired Airflow Platform Architect is asked to define the characteristics of a production-ready orchestration platform.

Which characteristics should be included?

- Reliability
- Observability
- Scalability
- Security
- Governance
- No documentation

ANSWER

- Reliability**
- Observability**
- Scalability**
- Security**
- Governance**

EXPLANATION

Enterprise Airflow platforms should be reliable, scalable, observable, secure, and governed to support business-critical workflows.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 06

Statement Analysis Questions Questions 101 120 (20 Questions)

QUESTION 101

Statement 1:

A DAG defines the workflow structure and task dependencies.

Statement 2:

A DAG stores data generated by workflow execution.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

EXPLANATION

DAGs define workflow orchestration but do not store business data.

QUESTION 102

Statement 1:

The Airflow Scheduler determines when tasks should run.

Statement 2:

The Scheduler executes task logic directly.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 103

Statement 1:

Workers execute scheduled tasks.

Statement 2:

Workers are responsible for storing Airflow metadata.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 104

Statement 1:

XCom is designed for passing small pieces of data between tasks.

Statement 2:

XCom is intended for transferring large datasets between tasks.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 105

Statement 1:

Variables help manage environment-specific configuration values.

Statement 2:

Variables are commonly used to avoid hardcoding configuration values.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 106

Statement 1:

Sensors can wait for external events before allowing downstream execution.

Statement 2:

Sensors permanently stop DAG execution until manually resumed.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 107

Statement 1:

Pools help control concurrency for shared resources.

Statement 2:

Pools can be used to prevent overwhelming external systems.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 108

Statement 1:

Connections store integration details for external systems.

Statement 2:

Connections eliminate the need for credentials entirely.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 109

Statement 1:

Retries can improve resilience against temporary failures.

Statement 2:

Retries solve all workflow failures automatically.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 110

Statement 1:

Task dependencies define workflow execution order.

Statement 2:

Airflow ignores dependencies when scheduling tasks.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 111

Statement 1:

Task Groups improve DAG organization.

Statement 2:

Task Groups change business logic execution order automatically.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 112

Statement 1:

Catchup can create historical DAG runs for missed schedules.

Statement 2:

Catchup settings can impact workload volume.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 113

Statement 1:

Backfill is commonly used to process missed historical execution periods.

Statement 2:

Backfill is useful after outages or delayed source availability.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 114

Statement 1:

Scheduler health is important for workflow execution.

Statement 2:

A failed scheduler may prevent new DAG runs from being created.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct

- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 115

Statement 1:

Centralized logging helps troubleshoot production incidents.

Statement 2:

Logs are useful during root cause analysis.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 116

Statement 1:

SLA monitoring helps identify workflows that exceed expected completion windows.

Statement 2:

A workflow can complete successfully and still violate an SLA.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 117

Statement 1:

Trigger Rules influence task execution behavior.

Statement 2:

Different Trigger Rules can produce different workflow outcomes.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

C

QUESTION 118

Statement 1:

Airflow is commonly used to orchestrate Databricks, Snowflake, APIs and cloud services.

Statement 2:

Airflow replaces all processing engines used inside workflows.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 119

Statement 1:

A production-ready Airflow platform should include monitoring and alerting.

Statement 2:

Production workflows should rely solely on manual observation.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

QUESTION 120

Statement 1:

Scalability, observability, reliability and governance are important enterprise Airflow objectives.

Statement 2:

Enterprise orchestration platforms should be designed only for current workloads.

- A. Only Statement 1 is correct
- B. Only Statement 2 is correct
- C. Both Statements are correct
- D. Neither Statement is correct

ANSWER

A

EXPLANATION

Enterprise Airflow platforms must support future growth while maintaining reliability, security, monitoring and governance.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 07

Architect Review Board Questions Questions 121 140 (20 Questions)

QUESTION 121

A newly joined Airflow Architect reviews a retail company's orchestration platform.

Current State:

- 600 DAGs
- 40 developers
- Multiple business units
- Frequent code duplication

Developers often copy entire DAGs and modify only a few parameters.

Leadership wants lower maintenance costs.

What is the BEST recommendation?

- A. Create reusable DAG frameworks
- B. Create more DAG copies
- C. Increase worker count
- D. Create more Variables

ANSWER

A. Create reusable DAG frameworks

QUESTION 122

A banking company operates Airflow across:

- Development
- QA
- Production

Engineers frequently make direct production changes.

Several recent incidents were caused by untested deployments.

What should be implemented first?

- A. CI/CD Deployment Process
- B. Bigger Workers
- C. Additional Pools
- D. More Queues

ANSWER

A. CI/CD Deployment Process

QUESTION 123

A healthcare company expects workflow volume to triple within the next year. Current Airflow workers frequently remain at 90% utilization.

What should architects evaluate first?

- A. Platform Scalability Strategy
- B. DAG Naming Convention
- C. XCom Cleanup
- D. Trigger Rules

ANSWER

A. Platform Scalability Strategy

QUESTION 124

An airline company runs hundreds of independent DAGs. Some DAGs process a few tasks. Others process thousands of records across many systems. Administrators complain scheduling delays are increasing. What platform component should be reviewed first?

- A. Scheduler Capacity
- B. Variables
- C. DAG Descriptions
- D. Task Groups

ANSWER

A. Scheduler Capacity

QUESTION 125

A global retailer wants engineering teams to create workflows consistently. Current problems:

- Different naming styles
- Different alerting approaches
- Different retry strategies

What should be established?

- A. Airflow Standards Framework
- B. More Workers
- C. Additional DAGs
- D. More Connections

ANSWER

A. Airflow Standards Framework

QUESTION 126

A company wants one DAG template that can process:

- Sales Data
- Customer Data
- Product Data
- Inventory Data

without creating separate DAG definitions.

What Airflow capability should architects explore?

- A. Dynamic DAG Generation
- B. Additional Variables

- C. More Pools
- D. Trigger Rules

ANSWER**A. Dynamic DAG Generation**

QUESTION 127

A telecom company processes data from 5,000 stores.
The number of data files changes every day.
Hardcoded tasks cannot keep up with variable workloads.
What approach is best?

- A. Dynamic Task Mapping
- B. Manual Task Creation
- C. Multiple DAG Copies
- D. More Queues

ANSWER**A. Dynamic Task Mapping**

QUESTION 128

A financial institution wants Airflow deployments reviewed before production releases.
Which governance process should be implemented?

- A. Architecture and Code Review
- B. Manual Production Changes
- C. Shared Credentials
- D. Open Deployments

ANSWER**A. Architecture and Code Review**

QUESTION 129

A newly hired Airflow Architect discovers that workflow failures are often reported by business users before engineers notice them.
What capability is most urgently needed?

- A. Observability Strategy
- B. More Variables
- C. More Pools
- D. Additional DAG Tags

ANSWER**A. Observability Strategy**

QUESTION 130

A manufacturing company wants workflow metrics centrally available for all teams.
Leadership requests visibility into:

- Success Rates
- Failure Rates
- Runtime Trends
- SLA Compliance

What should be implemented?

- A. Enterprise Monitoring Platform
- B. More Workers
- C. More DAG Folders
- D. Additional Queues

ANSWER**A. Enterprise Monitoring Platform**

QUESTION 131

A company wants stronger disaster recovery procedures for Airflow.

Leadership asks:

"What happens if the Airflow environment becomes unavailable?"

What should architects define first?

- A. Recovery Objectives
- B. New DAG Names
- C. Trigger Rules
- D. XCom Cleanup

ANSWER

A. Recovery Objectives

QUESTION 132

A platform team wants teams to onboard new DAGs rapidly.

Current onboarding takes several weeks.

What investment would provide the biggest improvement?

- A. Reusable Templates and Documentation
- B. Larger Queues
- C. More Pools
- D. Additional Variables

ANSWER

A. Reusable Templates and Documentation

QUESTION 133

A retail company has dozens of DAGs using hardcoded retry values.

Architects want consistent recovery behavior.

What should be standardized?

- A. Retry Policy Framework
- B. Worker Hostnames
- C. DAG Colors
- D. Pool Labels

ANSWER

A. Retry Policy Framework

QUESTION 134

A healthcare organization must ensure all workflows handling patient data follow identical security standards.

What should be implemented?

- A. Airflow Governance Framework
- B. Additional Workers
- C. More DAGs
- D. More Sensors

ANSWER

A. Airflow Governance Framework

QUESTION 135

A company wants Airflow to support future growth without requiring major redesigns.

What architecture principle should guide designs?

- A. Scalability by Design
- B. Fixed Capacity Planning
- C. Manual Expansion
- D. Static Architectures

ANSWER

A. Scalability by Design

QUESTION 136

A global enterprise wants every Airflow workflow traceable from:

Source System Processing Target System

What capability should become a strategic priority?

- A. Workflow Lineage
- B. Additional XComs
- C. More Variables
- D. Trigger Rules

ANSWER

A. Workflow Lineage

QUESTION 137

A support team spends significant time manually investigating recurring workflow failures.

What long-term improvement should be prioritized?

- A. Operational Runbooks
- B. Larger DAG Files
- C. Additional Pools
- D. More Connections

ANSWER

A. Operational Runbooks

QUESTION 138

An insurance company wants all Airflow environments reviewed against common architecture standards.

What should be established?

- A. Architecture Review Board
- B. More Workers
- C. More Variables
- D. More DAG Copies

ANSWER

A. Architecture Review Board

QUESTION 139

A multi-country company wants individual teams to own workflows while still following enterprise standards.

What operating approach fits best?

- A. Federated Governance Model
- B. Completely Independent Teams
- C. Central Team Ownership Only
- D. No Governance

ANSWER

A. Federated Governance Model

QUESTION 140

A newly hired Principal Airflow Architect is asked:

What is the ultimate goal of an enterprise Airflow platform?

- A. Deliver reliable, scalable, governed workflow orchestration
- B. Create the most DAGs possible
- C. Increase worker counts continuously
- D. Build the largest Airflow cluster

ANSWER

A. Deliver reliable, scalable, governed workflow orchestration

EXPLANATION

Enterprise Airflow platforms exist to provide dependable orchestration, operational visibility, governance, scalability, and business continuity across data workflows.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 08Match the Requirement Questions Questions 141 160 (20 Questions)

QUESTION 141

A newly joined Data Engineer at a retail company needs a task to wait until a supplier file arrives before the remaining workflow executes.

Which Airflow feature BEST matches this requirement?

- A. Sensor
- B. XCom
- C. Pool
- D. Variable

ANSWER**A. Sensor**

QUESTION 142

A banking company wants to reuse Snowflake connection credentials across hundreds of DAGs.

Which Airflow feature BEST matches this requirement?

- A. Connection
- B. Task Group
- C. Queue
- D. Trigger Rule

ANSWER**A. Connection**

QUESTION 143

A healthcare company wants one task to send a generated filename to another task.

Which Airflow feature BEST matches this requirement?

- A. XCom
- B. Pool
- C. Sensor
- D. Schedule

ANSWER**A. XCom**

QUESTION 144

A telecom company wants to prevent more than 10 concurrent tasks from accessing a legacy database.

Which Airflow capability BEST matches this requirement?

- A. Pool
- B. Variable
- C. DAG
- D. Queue

ANSWER**A. Pool**

QUESTION 145

A retail company has environment-specific S3 bucket names.

Developers do not want hardcoded values.

Which Airflow component BEST fits?

- A. Variable
- B. Sensor
- C. Pool
- D. Connection

ANSWER

A. Variable

QUESTION 146

An airline company wants workflows to start automatically every day at 6 AM.
Which Airflow capability BEST matches this requirement?

- A. Schedule
- B. XCom
- C. Pool
- D. Hook

ANSWER

A. Schedule

QUESTION 147

A healthcare organization wants to organize 80 tasks into logical sections without changing execution flow.

Which feature should be used?

- A. Task Group
- B. Variable
- C. Queue
- D. Pool

ANSWER

A. Task Group

QUESTION 148

A financial institution wants all failed workflows to send notifications automatically.
Which capability BEST supports this?

- A. Alerting
- B. DAG Tagging
- C. Queue Management
- D. Variables

ANSWER

A. Alerting

QUESTION 149

A manufacturing company wants to process schedules missed during a platform outage.
Which Airflow capability BEST addresses this need?

- A. Backfill
- B. Pool
- C. Trigger Rule
- D. XCom

ANSWER

A. Backfill

QUESTION 150

A logistics company wants to build workflow dependencies between dozens of DAGs.
Which Airflow capability BEST fits?

- A. TriggerDagRunOperator
- B. Variable
- C. Queue
- D. Sensor

ANSWER

A. TriggerDagRunOperator

QUESTION 151

A platform team wants engineering code automatically deployed after successful validation and testing. Which practice BEST supports this?

- A. CI/CD
- B. Manual Deployment
- C. Shared Access
- D. Pooling

ANSWER

A. CI/CD

QUESTION 152

A global retailer wants developers to write one DAG that dynamically creates tasks depending on the number of input files received.

Which Airflow capability BEST matches this requirement?

- A. Dynamic Task Mapping
- B. XCom
- C. Variable
- D. Connection

ANSWER

A. Dynamic Task Mapping

QUESTION 153

A healthcare company wants workflow ownership, operational standards and deployment controls standardized.

Which capability BEST fits?

- A. Governance Framework
- B. Retry Policy
- C. Task Group
- D. Queue

ANSWER

A. Governance Framework

QUESTION 154

A support engineer needs visibility into:

- Runtime
- Failures
- Success Rate
- SLA Breaches

Which capability BEST matches this requirement?

- A. Observability Platform
- B. Queue
- C. Variable
- D. Pool

ANSWER

A. Observability Platform

QUESTION 155

A telecom company wants Airflow to scale automatically as workload increases.

Which architectural concept BEST fits?

- A. Horizontal Scalability
- B. XCom Expansion
- C. Variable Management
- D. Trigger Rules

ANSWER

A. Horizontal Scalability

QUESTION 156

A bank wants developers to follow identical retry, alerting and monitoring practices.
Which approach BEST matches this goal?

- A. Engineering Standards
- B. Additional Workers
- C. More DAGs
- D. More Pools

ANSWER

A. Engineering Standards

QUESTION 157

An airline company wants engineers to quickly resolve recurring incidents.
Which operational artifact BEST helps?

- A. Runbook
- B. Queue
- C. Variable
- D. DAG Tag

ANSWER

A. Runbook

QUESTION 158

A retailer wants a complete view showing:
Source Workflow Target
Which capability BEST satisfies this requirement?

- A. Workflow Lineage
- B. Queue Management
- C. Pool Allocation
- D. Retry Tracking

ANSWER

A. Workflow Lineage

QUESTION 159

A pharmaceutical company wants a central team to define Airflow best practices for all projects.
Which operating model BEST supports this?

- A. Center of Excellence
- B. Independent Teams
- C. Shared User Accounts
- D. Manual Governance

ANSWER

A. Center of Excellence

QUESTION 160

A newly hired Principal Airflow Architect receives this requirement:
"Build an orchestration platform capable of supporting 5,000 workflows, multiple cloud services, strict governance standards and future growth."
Which capability becomes MOST important?

- A. Platform Architecture Strategy
- B. More Variables
- C. More DAG Tags
- D. Additional Queues

ANSWER

A. Platform Architecture Strategy

EXPLANATION

At enterprise scale, long-term success depends on architecture, governance, scalability, reliability and operational excellence rather than individual DAG implementations.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 09

Best and Most Cost-Effective Solution Questions Questions 161 180 (20 Questions)

QUESTION 161

A retail company runs 500 DAGs daily.

Developers request additional workers because workflows occasionally queue during peak hours.

Investigation shows worker utilization exceeds 90% only for 20 minutes each day.

What is the BEST recommendation?

- A. Add 50 permanent workers
- B. Review autoscaling strategy
- C. Rewrite all DAGs
- D. Create more Variables

ANSWER

B. Review autoscaling strategy

EXPLANATION

Autoscaling handles peak demand without permanently increasing infrastructure costs.

QUESTION 162

A banking company runs a DAG every five minutes.

The DAG checks for files that typically arrive only once per day.

Management wants to reduce unnecessary workload.

What is the BEST solution?

- A. Schedule the DAG based on actual arrival patterns
- B. Add more workers
- C. Increase retries
- D. Split the DAG

ANSWER

A. Schedule the DAG based on actual arrival patterns

QUESTION 163

A healthcare company operates 300 similar DAGs.

Only table names and schedules differ.

Maintenance effort has become excessive.

What is the BEST architectural recommendation?

- A. Dynamic DAG generation
- B. Create 300 additional DAGs
- C. Add more queues
- D. Increase workers

ANSWER

A. Dynamic DAG generation

QUESTION 164

A telecom company frequently experiences API timeouts.

Current configuration:

- Retry Delay: 1 second
- Retries: 20

The external provider recommends reducing request frequency.

What is the BEST improvement?

- A. Exponential Backoff
- B. More workers
- C. More schedules
- D. More pools

ANSWER**A. Exponential Backoff**

QUESTION 165

An airline company has 2,000 tasks competing for a database that only supports 25 concurrent connections.

What is the BEST Airflow solution?

- A. Pool Configuration
- B. Add more workers
- C. Create additional DAGs
- D. Add more retries

ANSWER**A. Pool Configuration**

QUESTION 166

A manufacturing company wants near real-time visibility into workflow failures.

Support engineers currently review logs manually every morning.

What is the BEST recommendation?

- A. Automated alerting and monitoring
- B. Hire more support staff
- C. Add more workers
- D. Increase schedules

ANSWER**A. Automated alerting and monitoring**

QUESTION 167

A retail company maintains separate DAGs for:

- Sales
- Customers
- Inventory
- Products

Each DAG performs identical processing logic.

What is the BEST long-term approach?

- A. Reusable workflow framework
- B. Duplicate DAG code
- C. Separate Airflow environments
- D. More variables

ANSWER**A. Reusable workflow framework**

QUESTION 168

A newly joined support engineer observes frequent SLA breaches.

Investigation reveals most failures stem from long-running source-system queries.

What should be reviewed first?

- A. Source query optimization
- B. Workflow colors
- C. DAG descriptions
- D. Pool labels

ANSWER**A. Source query optimization**

QUESTION 169

A company wants faster onboarding of developers to Airflow.

Current onboarding takes four weeks.

What provides the greatest long-term benefit?

- A. Templates and documentation
- B. Additional workers
- C. More DAGs
- D. More queues

ANSWER

A. Templates and documentation

QUESTION 170

A banking platform supports hundreds of workflows.

Executives want visibility into platform health from a single dashboard.

What is the BEST recommendation?

- A. Centralized observability platform
- B. More Airflow UIs
- C. Additional workers
- D. More queues

ANSWER

A. Centralized observability platform

QUESTION 171

A healthcare company receives source files from 100 hospitals.

The number of arriving files changes daily.

What is the BEST design?

- A. Dynamic Task Mapping
- B. Create tasks manually
- C. Create new DAGs daily
- D. Create more pools

ANSWER

A. Dynamic Task Mapping

QUESTION 172

A retailer wants every production deployment validated automatically before release.

What is the BEST solution?

- A. CI/CD validation pipeline
- B. Manual testing only
- C. Shared production access
- D. More variables

ANSWER

A. CI/CD validation pipeline

QUESTION 173

An insurance company runs Airflow across multiple business units.

Each team uses different retry standards and alerting methods.

What should be established?

- A. Enterprise engineering standards
- B. Local team preferences
- C. Independent environments only
- D. More DAG copies

ANSWER

A. Enterprise engineering standards

QUESTION 174

A company experiences increasing Airflow infrastructure costs.
Most workflows run only during daytime business hours.
What should architects evaluate first?

- A. Runtime resource optimization
- B. More workers
- C. More schedules
- D. Larger pools

ANSWER

A. Runtime resource optimization

QUESTION 175

A support team spends hours investigating recurring incidents.
The root causes are often identical.
What is the BEST investment?

- A. Runbooks and knowledge base
- B. More queues
- C. More variables
- D. Additional DAG tags

ANSWER

A. Runbooks and knowledge base

QUESTION 176

A finance company wants workflow ownership clearly defined.
Multiple teams currently share responsibility for everything.
What is the BEST governance improvement?

- A. Defined ownership model
- B. More workers
- C. Additional variables
- D. More task groups

ANSWER

A. Defined ownership model

QUESTION 177

A company must support future workload growth without major platform redesign.
Which architectural principle is MOST important?

- A. Scalability by Design
- B. Fixed Capacity Planning
- C. Manual Scaling
- D. Independent Solutions

ANSWER

A. Scalability by Design

QUESTION 178

A global retailer wants faster incident detection.
Business users currently identify most failures before support teams.
What should be improved first?

- A. Proactive monitoring and alerting
- B. More DAGs
- C. More pools
- D. More variables

ANSWER

A. Proactive monitoring and alerting

QUESTION 179

A newly hired Architect reviews an Airflow environment with:

- 1,500 DAGs
- 200 developers
- 15 business units

Management wants long-term consistency.

What should be implemented first?

- A. Platform governance framework
- B. More workers
- C. More DAG folders
- D. More schedules

ANSWER

A. Platform governance framework

QUESTION 180

A Principal Airflow Architect is designing an orchestration platform expected to support:

- Thousands of workflows
- Multi-cloud integrations
- Enterprise governance
- Strict SLAs
- Future growth

What is the MOST important architectural objective?

- A. Reliable, scalable and governed orchestration
- B. Maximum worker count
- C. Largest DAG inventory
- D. Most schedules possible

ANSWER

A. Reliable, scalable and governed orchestration

EXPLANATION

Enterprise Airflow success is measured by reliability, scalability, governance, observability and business value, not by infrastructure size alone.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 10

Recommendation Validation Questions Questions 181 200 (20 Questions)

QUESTION 181

A retail company has hundreds of DAGs accessing a legacy ERP system.

The ERP team limits concurrent connections to 20.

A Senior Engineer recommends:

"We should configure Airflow Pools to control access and prevent system overload."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

EXPLANATION

Pools are specifically designed to limit concurrent access to constrained resources.

QUESTION 182

A banking workflow regularly fails because of temporary API outages.

A Senior Engineer recommends:

"Let's disable retries so support engineers can handle failures manually."

Was the recommendation correct?

- A. Correct Recommendation

B. Incorrect Recommendation

ANSWER

B

QUESTION 183

A healthcare company stores database passwords directly inside DAG code.

A Senior Engineer recommends:

"Move credentials into Airflow Connections or a secrets management solution."

Was the recommendation correct?

A. Correct Recommendation

B. Incorrect Recommendation

ANSWER

A

QUESTION 184

A telecom company has 250 DAGs with almost identical code.

A Senior Engineer recommends:

"Continue duplicating DAGs because it makes maintenance easier."

Was the recommendation correct?

A. Correct Recommendation

B. Incorrect Recommendation

ANSWER

B

QUESTION 185

A manufacturing workflow receives a variable number of source files every day.

A Senior Engineer recommends:

"Use Dynamic Task Mapping rather than creating hardcoded tasks."

Was the recommendation correct?

A. Correct Recommendation

B. Incorrect Recommendation

ANSWER

A

QUESTION 186

A retailer notices workers remain idle most of the day but reach 100% utilization for 15 minutes during peak processing.

A Senior Engineer recommends:

"Permanently double infrastructure capacity."

Was the recommendation correct?

A. Correct Recommendation

B. Incorrect Recommendation

ANSWER

B

QUESTION 187

A support team frequently investigates identical incidents.

A Senior Engineer recommends:

"Create operational runbooks for recurring issues."

Was the recommendation correct?

A. Correct Recommendation

B. Incorrect Recommendation

ANSWER

A

QUESTION 188

An airline company wants visibility into failed workflows before business users report issues.

A Senior Engineer recommends:

"Implement monitoring and alerting."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 189

A financial institution wants every production deployment reviewed before release.

A Senior Engineer recommends:

"Allow direct production edits to accelerate delivery."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

B

QUESTION 190

A retail company experiences increasing workflow complexity.

A Senior Engineer recommends:

"Use Task Groups to improve DAG organization."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 191

A company wants configuration changes without modifying DAG code.

A Senior Engineer recommends:

"Store configuration values in Airflow Variables."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 192

A healthcare workflow needs to wait until a source file arrives.

A Senior Engineer recommends:

"Use a Sensor to monitor file availability."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 193

A banking company wants resilient processing for temporary failures.

A Senior Engineer recommends:

"Configure retries with appropriate delays."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 194

An organization wants workflow ownership clearly defined.

A Senior Engineer recommends:

"Assign business and technical owners to each critical DAG."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 195

A global logistics company experiences regular scheduler bottlenecks.

A Senior Engineer recommends:

"Review scheduler capacity before redesigning workflows."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 196

A support engineer receives repeated overnight alerts.

A Senior Engineer recommends:

"Disable alerts to reduce operational noise."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

B

QUESTION 197

A company plans rapid growth over the next three years.

A Senior Engineer recommends:

"Design the Airflow platform for scalability from the beginning."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 198

A retailer wants consistent Airflow practices across teams.

A Senior Engineer recommends:

"Introduce engineering standards and governance."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 199

A pharmaceutical company wants developers to reuse proven workflow components.

A Senior Engineer recommends:

"Create reusable framework libraries."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

QUESTION 200

A newly hired Principal Airflow Architect states:

"The goal of Airflow is not simply to run tasks, but to provide reliable, observable, scalable and governed workflow orchestration."

Was the recommendation correct?

- A. Correct Recommendation
- B. Incorrect Recommendation

ANSWER

A

EXPLANATION

At enterprise scale, successful Airflow platforms focus on reliability, observability, governance, scalability, maintainability

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 11

Root Cause Analysis Questions Questions 201 220 (20 Questions)

QUESTION 201

A daily retail sales DAG usually finishes in 20 minutes.

Today it is still running after 2 hours.

Investigation shows:

- Scheduler healthy
- Workers healthy
- One source database query running for 90 minutes

What is the MOST likely root cause?

- A. Slow source query
- B. DAG naming issue
- C. Pool configuration
- D. XCom limitation

ANSWER

A. Slow source query

QUESTION 202

A banking workflow never starts.

The DAG exists and appears in the Airflow UI.

No DAG runs are being created.

What is the MOST likely root cause?

- A. DAG is paused
- B. XCom issue
- C. Pool exhaustion
- D. Connection corruption

ANSWER

A. DAG is paused

QUESTION 203

A healthcare DAG remains in "Queued" status for one hour.

No tasks are running.

Workers are fully utilized.

What is the MOST likely root cause?

- A. Worker capacity exhaustion
- B. Variable issue
- C. Trigger rule issue
- D. DAG tagging issue

ANSWER

A

QUESTION 204

A workflow processes customer data.

The DAG succeeds, but the target table contains zero records.

What is the MOST likely root cause category?

- A. Business logic issue
- B. Scheduler failure
- C. Worker crash
- D. UI problem

ANSWER

A

QUESTION 205

A source API was unavailable for ten minutes.

The workflow failed immediately without attempting another call.

What is the MOST likely cause?

- A. Missing retry configuration
- B. Worker shortage
- C. Scheduler failure
- D. Connection pool issue

ANSWER

A

QUESTION 206

A company reports duplicate reporting records.

Investigation shows the same DAG execution date was triggered twice.

What is the MOST likely root cause?

- A. Duplicate DAG execution
- B. Pool overflow
- C. Variable corruption
- D. Alerting issue

ANSWER

A**QUESTION 207**

A Sensor has been running for six hours.
The downstream workflow has not started.
The required file is not present.
What is the MOST likely root cause?

- A. Waiting condition not satisfied
- B. Scheduler failure
- C. Worker crash
- D. Trigger rule misconfiguration

ANSWER**A****QUESTION 208**

A finance workflow suddenly begins failing after a source-system release.
Task logs show missing columns.
What is the MOST likely root cause?

- A. Source schema change
- B. Pool issue
- C. DAG pause
- D. Queue configuration

ANSWER**A****QUESTION 209**

A support engineer observes thousands of queued tasks.
Scheduler is functioning correctly.
What is the MOST likely area to investigate?

- A. Worker availability
- B. XCom size
- C. Variable values
- D. Task tags

ANSWER**A****QUESTION 210**

A company misses all workflow executions for one specific day.
Investigation shows the Scheduler was unavailable during that period.
What is the MOST likely root cause?

- A. Scheduler outage
- B. Pool exhaustion
- C. Connection issue
- D. Hook failure

ANSWER**A****QUESTION 211**

A healthcare workflow fails intermittently.
The same code sometimes succeeds.
Logs show temporary DNS resolution errors.
What is the MOST likely root cause?

- A. Infrastructure instability
- B. DAG structure issue
- C. XCom configuration

D. Variable mismatch

ANSWER

A

QUESTION 212

A support engineer receives an SLA breach alert.

All tasks succeeded successfully.

What is the MOST likely explanation?

- A. Workflow exceeded expected runtime
- B. Scheduler crashed
- C. Worker failed
- D. Connection issue

ANSWER

A

QUESTION 213

A DAG runs correctly in Dev but fails in Production.

The code is identical.

What is the MOST likely area to investigate first?

- A. Environment configuration differences
- B. DAG filename
- C. Task Group structure
- D. Alert settings

ANSWER

A

QUESTION 214

A company receives hundreds of file-processing failures simultaneously.

Investigation reveals cloud storage permissions changed overnight.

What is the MOST likely root cause category?

- A. Access control issue
- B. Pool exhaustion
- C. DAG corruption
- D. Scheduler issue

ANSWER

A

QUESTION 215

A banking DAG executes successfully.

However, no customer notifications are delivered.

What is the MOST likely component to investigate?

- A. Notification task
- B. Scheduler
- C. Pool
- D. Connection metadata

ANSWER

A

QUESTION 216

A workflow suddenly begins creating historical runs covering two months of missing schedules.

What is the MOST likely cause?

- A. Catchup behavior
- B. Pool limitation
- C. Worker restart
- D. DAG tags

ANSWER**A**

QUESTION 217

A manufacturing workflow frequently waits on external systems.

Runtime is highly inconsistent.

What is the MOST likely root cause category?

- A. External dependency variability
- B. Variable configuration
- C. Trigger rule issue
- D. Task Group structure

ANSWER**A**

QUESTION 218

Business users report failures before engineers are aware of them.

What is the MOST likely operational gap?

- A. Insufficient monitoring and alerting
- B. XCom issue
- C. Pool shortage
- D. Variable management

ANSWER**A**

QUESTION 219

An Airflow environment consumes significantly more infrastructure resources than expected.

Most workers remain idle throughout the day.

What is the MOST likely cause?

- A. Overprovisioned infrastructure
- B. Missing Variables
- C. DAG naming issue
- D. Trigger rule misuse

ANSWER**A**

QUESTION 220

An enterprise Airflow platform experiences recurring incidents caused by different teams implementing workflows in different ways.

What is the MOST likely root cause?

- A. Lack of engineering standards and governance
- B. Worker shortage
- C. Sensor configuration
- D. Queue management

ANSWER**A****EXPLANATION**

Enterprise-scale Airflow environments require standardization, governance, reusable patterns, and operational controls to reduce inconsistency and operational risk.

APACHE AIRFLOW CERTIFICATION PRACTICE TEST 12Which Requirement Is NOT Addressed Questions Questions 221 250 (30 Questions)

QUESTION 221

A newly joined Data Engineer proposes using Airflow Variables.

Variables help with:

- Configuration management
- Environment-specific values
- Reducing hardcoded values

Which requirement is NOT addressed by Variables?

- A. Store configuration centrally
- B. Reuse deployment values
- C. Execute Python code
- D. Manage environment settings

ANSWER

C. Execute Python code

QUESTION 222

A retail company plans to use Sensors.

Which requirement is NOT addressed by a Sensor?

- A. Wait for file arrival
- B. Wait for API readiness
- C. Wait for database records
- D. Transform data

ANSWER

D. Transform data

QUESTION 223

A bank wants to implement XCom.

Which requirement is NOT addressed by XCom?

- A. Share task outputs
- B. Pass execution metadata
- C. Exchange small values
- D. Store terabytes of source data

ANSWER

D. Store terabytes of source data

QUESTION 224

A healthcare company deploys Pools.

Which problem is NOT solved by Pools?

- A. Limit API calls
- B. Protect legacy systems
- C. Control concurrency
- D. Fix business logic defects

ANSWER

D. Fix business logic defects

QUESTION 225

A telecom company introduces Task Groups.

Which requirement is NOT addressed?

- A. Improve readability
- B. Organize workflows
- C. Reduce visual complexity
- D. Increase worker capacity

ANSWER**D. Increase worker capacity**

QUESTION 226

A logistics company implements retries.

Which problem is NOT guaranteed to be solved?

- A. Temporary network failures
- B. Intermittent API issues
- C. Short outages
- D. Incorrect transformation logic

ANSWER**D. Incorrect transformation logic**

QUESTION 227

An airline company implements SLA monitoring.

Which requirement is NOT fulfilled?

- A. Detect late workflows
- B. Track runtime expectations
- C. Generate SLA alerts
- D. Automatically optimize slow code

ANSWER**D. Automatically optimize slow code**

QUESTION 228

A retailer implements centralized logging.

Which requirement is NOT addressed?

- A. Troubleshooting
- B. Root cause analysis
- C. Historical review
- D. Data storage replacement

ANSWER**D. Data storage replacement**

QUESTION 229

A financial institution adopts CI/CD.

Which requirement is NOT directly addressed?

- A. Deployment consistency
- B. Testing automation
- C. Controlled releases
- D. Business KPI definition

ANSWER**D. Business KPI definition**

QUESTION 230

A manufacturing company adopts Dynamic Task Mapping.

Which requirement is NOT addressed?

- A. Variable workloads
- B. Unknown file counts
- C. Dynamic execution patterns
- D. Permanent data storage

ANSWER**D. Permanent data storage**

QUESTION 231

A company introduces monitoring dashboards.
Which requirement is NOT solved?

- A. Runtime visibility
- B. Failure visibility
- C. Platform health visibility
- D. Automatic code correction

ANSWER

D. Automatic code correction

QUESTION 232

A healthcare organization creates operational runbooks.
Which requirement is NOT addressed?

- A. Faster incident response
- B. Consistent troubleshooting
- C. Knowledge sharing
- D. Automatic workflow scaling

ANSWER

D. Automatic workflow scaling

QUESTION 233

A banking company implements governance standards.
Which requirement is NOT directly addressed?

- A. Consistency
- B. Compliance
- C. Operational control
- D. Data compression

ANSWER

D. Data compression

QUESTION 234

An Airflow team introduces engineering standards.
Which challenge is NOT solved?

- A. Inconsistent retries
- B. Inconsistent alerting
- C. Inconsistent coding approaches
- D. Source-system outages

ANSWER

D. Source-system outages

QUESTION 235

A company creates reusable workflow templates.
Which problem is NOT directly addressed?

- A. Code duplication
- B. Onboarding complexity
- C. Development speed
- D. Database corruption

ANSWER

D. Database corruption

QUESTION 236

A support team implements proactive alerts.
Which outcome is NOT guaranteed?

- A. Faster awareness
- B. Better operational visibility
- C. Earlier incident detection
- D. Zero production failures

ANSWER

D. Zero production failures

QUESTION 237

A company adopts a federated governance model.
Which requirement is NOT addressed?

- A. Team ownership
- B. Enterprise standards
- C. Scalable governance
- D. Query optimization

ANSWER

D. Query optimization

QUESTION 238

An enterprise implements workflow lineage.
Which requirement is NOT addressed?

- A. Dependency visibility
- B. Impact analysis
- C. Data flow understanding
- D. Worker autoscaling

ANSWER

D. Worker autoscaling

QUESTION 239

A platform team creates an Airflow Center of Excellence.
Which responsibility is NOT typically owned?

- A. Standards
- B. Best practices
- C. Reusable patterns
- D. Daily business approvals

ANSWER

D. Daily business approvals

QUESTION 240

A retailer improves observability.
Which requirement is NOT automatically achieved?

- A. Better monitoring
- B. Better visibility
- C. Faster troubleshooting
- D. Perfect workflows

ANSWER

D. Perfect workflows

QUESTION 241

An architect introduces capacity planning.
Which risk is NOT eliminated completely?

- A. Growth forecasting
- B. Resource awareness
- C. Capacity management
- D. All future failures

ANSWER

D. All future failures

QUESTION 242

A company adopts workload autoscaling.
Which benefit is NOT guaranteed?

- A. Better resource efficiency
- B. Peak workload support
- C. Improved elasticity
- D. Elimination of bad DAG design

ANSWER

D. Elimination of bad DAG design

QUESTION 243

A platform team introduces deployment approval workflows.
Which objective is NOT directly addressed?

- A. Risk reduction
- B. Governance
- C. Release quality
- D. Data modeling

ANSWER

D. Data modeling

QUESTION 244

A healthcare company adopts secrets management.
Which challenge is NOT addressed?

- A. Credential storage
- B. Security
- C. Access control
- D. Scheduler performance

ANSWER

D. Scheduler performance

QUESTION 245

A telecom company introduces workflow ownership.
Which issue is NOT directly solved?

- A. Accountability
- B. Escalation clarity
- C. Responsibility definition
- D. Network latency

ANSWER

D. Network latency

QUESTION 246

An airline company standardizes alerting.
Which benefit is NOT guaranteed?

- A. Consistency
- B. Better response awareness
- C. Simplified operations
- D. Elimination of incidents

ANSWER

D. Elimination of incidents

QUESTION 247

A manufacturing company implements architecture reviews.
Which area is NOT directly improved?

- A. Design consistency
- B. Governance
- C. Engineering quality
- D. Source data accuracy

ANSWER

D. Source data accuracy

QUESTION 248

A platform architect designs for scalability.
Which challenge is NOT automatically resolved?

- A. Growth readiness
- B. Resource planning
- C. Expansion support
- D. Poor business requirements

ANSWER

D. Poor business requirements

QUESTION 249

A global retailer implements an enterprise monitoring platform.
Which problem is NOT fully solved?

- A. Visibility
- B. Trend tracking
- C. Incident awareness
- D. Human mistakes

ANSWER

D. Human mistakes

QUESTION 250

A Principal Airflow Architect creates a governed, scalable and observable orchestration platform.
Which outcome is NOT guaranteed solely by the platform?

- A. Reliable workflow execution
- B. Operational visibility
- C. Governance support
- D. Correct business requirements

ANSWER

D. Correct business requirements

EXPLANATION

Even the best Airflow platform cannot compensate for incorrect or unclear business requirements. Platform excellence improves reliability, governance, scalability and observability, but business requirements must still be defined correctly.
