DevOpsSchool

Course curriculum · November 2026

AZURE · TRAINING PROGRAM

# Azure Data Factory Course

A practical, hands-on Azure Data Factory Course curriculum: 89 topics over 3 days. Learn live online in a small batch, as a private corporate batch, or self-paced with one year of LMS access.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE<br>**Private team batch, on demand** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| Who should attend | Objectives, audience, prerequisites |
| Agenda | 89 topics over 3 days |
| Formats and fees | Live, 1:1, self-paced, corporate |
| Trainer and reviews | Rajesh Kumar |
| Enrolment | Batches, payment, contacts |


## WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

**Course page:** www.devopsschool.com/courses/azure/azure-data-factory.html
**Talk to us:** WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

COURSE FIT

# Who this program is for

Use this page to decide whether Azure Data Factory Course matches your role and experience.

1

### Objectives

Understand the core concepts and usage model, apply practical workflows through examples and guided tasks, and prepare for implementation, certification or team adoption.

2

### Who should attend

Developers, DevOps engineers, administrators, SREs, security engineers, platform teams, release teams, technical leads and corporate teams working with this topic.

3

### Before you start

Basic computer literacy and awareness of software, operations, cloud, DevOps or security workflows is helpful. Deep programming experience is not needed unless the topic requires it.

AGENDA AT A GLANCE · 89 TOPICS OVER 3 DAYS

**Day 1**

32 topics · Azure SQL Databases

**Day 2**

34 topics · Azure Data bricks

**Day 3**

23 topics · Azure Monitoring services

AGENDA · 89 TOPICS OVER 3 DAYS

# Azure Data Factory Course agenda

Days are for corporate (day-wise) delivery; live online batches cover the agenda in max 8-10 hours.

## DAY 1

32 topics

1. Azure SQL Databases
2. Introduction to Azure SQL Database
3. Why chose SQL Server in Azure
4. IAAS Vs PAAS Databases offerings
5. IAAS vs managed instances for databases
6. Deploying SQL Database in Azure
7. Best practices for Azure SQL performance optimization
8. Securing data at rest in SQL databases.
9. Encryption with keys in key vault
10. Disaster recovery options in Azure SQL database
11. Authentication and Integrating with Azure Active Directory
12. Data discovery, masking, classification and Vulnerability assessment in Azure SQL Databases.
13. Available database Migrations options and tools
14. Azure Data lake
15. Azure Data lake vs Hadoop
16. Evolution of Azure data lake Gen2
17. Azure Blob storage vs Data lake differences
18. Hierarchical namespaces
19. Data ingestion tools
20. Migrate data using Azcopy , Azure storage explorer and Data Factory.
21. Migrating data from Azure SQL to Data lake Gen2 using Data factory
22. Data flow around Data lake
23. Data lake and transient clusters
24. Data Processing using HD insights.
25. Explore, analyze, clean and transform.
26. Security layers in Data lake.
27. Usage of Security keys and Shared access signatures
28. Integrating with Azure Active Directory and RBAC
29. Filtering traffic using Azure Firewalls and virtual networks.
30. Encryption of data at transit and at rest
31. Threat protection and Vulnerability assessment
32. Monitoring data lake (Activity log, Metrics, Insights, alerts and diagnostic settings) and optimization

## DAY 2

34 topics

33. Azure Data bricks
34. Spark Basics

35. Evolution of data bricks and difficulty level of Spark
36. Azure Data bricks provisioning, clusters and workbooks
37. Mount Data lake to DBFS (Data Bricks)
38. Explore, Analyze, Clean, transform and load to Azure Data bricks
39. Azure Databricks clusters and its important components.
40. Monitoring Azure Data bricks
41. Best Practices for Using Azure data bricks in production.
42. Azure Data factory
43. Understand Azure Data Factory
44. Describe data integration patterns
45. Explain the data factory process
46. Understand Azure Data Factory components
47. Azure Data Factory security
48. Set up Azure Data Factory
49. Create linked services
50. Create datasets
51. Create data factory activities and pipelines
52. Manage integration runtime
53. List the data factory ingestion methods
54. Describe data factory connectors
55. Use the data factory copy activity
56. Deploy a release pipeline
57. Visually monitor pipeline runs
58. Integrate with Azure Monitor
59. Set up alerts
60. Rerun pipeline runs
61. Learn about Azure Data Factory security
62. Azure Data Share and transforming with Azure Data Factory
63. Receive data using Azure Data Share
64. Ingest data into Azure Data Lake Gen 2 using Azure Data Factory
65. Join and transform data with Mapping Flow in Azure Data Factory
66. Publish a pipeline run in Azure Data Factory

**DAY 3** 23 topics

67. Azure Monitoring services
68. Configure and view metrics in Azure Monitor.
69. Visualize and save data in dashboards.
70. Set alerts / Notifications and Action groups
71. Use log queries to interact with data.
72. Azure HD Insights
73. The need for distributed computing

74. Hadoop vs RDBMS
75. Hadoop and HD insights comparison
76. How HDInsight’s makes Hadoop easy
77. Important aspects of HD Insight / Cluster types
78. HDinsight Cluster Architecture
79. Create interactive query cluster.
80. Ambari overview and overview of UI
81. Ingest dataset into Data Lake storage.
82. Data Extraction with hive
83. Data transformation with hive
84. Data export using Snoop.
85. Secure operations in HD insights
86. Integrating HD Insights with on premise Active Directory
87. Integrating HD Insights with Azure Active Directory
88. Securing Connections with LDAPS / Communications over port 636
89. Best practices for optimizing performance on HDInsight's.

HOW YOU CAN LEARN

## Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

| FORMAT | DURATION | WHAT YOU GET | FEE |
|---|---|---|---|
| **Live & interactive (online)** | Max 8-10 hours | Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month. | **INR 34,999** |
| **1:1 live training (online)** | Max 8-10 hours, one-to-one | The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace. | **INR 99,999** |
| **Self-paced video** | 1-year LMS access | This program plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate** | Planned with your team | A private batch for your team, on demand, with examples mapped to your platforms. | **Quote on request** |

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on tasks and assignments. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

## Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

| | |
|---|---|
| **20** years in industry | **200+** corporate trainings |
| **10,000+** engineers mentored | **70+** organisations coached |

REVIEWS

## What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR TRAINING

## Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All courses: www.devopsschool.com/courses/

ENROL OR RESERVE A SEAT
**Azure Data Factory Course**

WHATSAPP · INDIA
**+91 99057 40781**

WHATSAPP · USA
**+1 (469) 756-6329**

EMAIL
**contact@DevOpsSchool.com**

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