

Items in this collection

LEARNING PATH

Microsoft Azure Data Fundamentals: Explore data analytics in Azure

3 modules • 3 hr 31 min

 100% completed

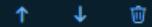


LEARNING PATH

Implement a Data Streaming Solution with Azure Stream Analytics

3 modules • 3 hr 2 min

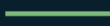
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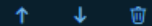


LEARNING PATH

Azure for the Data Engineer

3 modules • 1 hr 51 min

 100% completed




LEARNING PATH

Automate database tasks for Azure SQL


3 modules • 2 hr 21 min

 100% completed



 Section

Microsoft Azure Data Fundamentals: Explore data analytics in Azure:



Explore fundamentals of large-scale analytics

1 hr 32 min • Module • 10 Units


★★★★★ 4.8 (10,412)

Organizations use analytics platforms to build large scale data analytics solutions that generate insights and drive success. Microsoft provides multiple technologies that you can combine to build a large scale data analytics solution.

Overview ^

Introduction	1 min	✓
Describe data warehousing architecture	3 min	✓
Explore data ingestion pipelines	5 min	✓
Explore analytical data stores	8 min	✓
Explore platform-as-a-service (PaaS) solutions	8 min	✓
Exercise: Explore data analytics in Azure with Azure Synapse Analytics	30 min	✓
Explore Microsoft Fabric	8 min	✓
Exercise: Explore Microsoft Fabric	25 min	✓
Knowledge check	3 min	✓
Summary	1 min	✓

⊕ Add



Keep up the great work!

Explore fundamentals of large-scale analytics

You have earned an achievement!

Congratulations, but what should you do next?



Explore fundamentals of real-time analytics

1200 XP

1 hr 21 min • Module • 11 Units

★★★★★ 4.7 (5,833)

Learn about the basics of stream processing, and the services in Microsoft Azure that you can use to implement real-time analytics solutions.

Overview ^

Introduction	1 min	✓
Understand batch and stream processing	9 min	✓
Explore common elements of stream processing architecture	4 min	✓
Explore Azure Stream Analytics	2 min	✓
Exercise: Explore Azure Stream Analytics	15 min	✓
Explore Apache Spark on Microsoft Azure	3 min	✓
Exercise: Explore Spark Streaming in Azure Synapse Analytics	15 min	✓
Explore Realtime Analytics in Microsoft Fabric	3 min	✓
Exercise: Explore Realtime Analytics in Microsoft Fabric	25 min	✓
Knowledge check	3 min	✓
Summary	1 min	✓

+ Add

Keep up the great work!



Explore fundamentals of real-time analytics

You have earned an achievement!

Congratulations, but what should you do next?



Explore fundamentals of data visualization

800 XP

38 min • Module • 7 Units

★★★★★ 4.8 (9,806)

Learn the fundamental principles of analytical data modeling and data visualization, using Microsoft Power BI as a platform to explore these principles in action.

Overview ^

Introduction

1 min



Describe Power BI tools and workflow

3 min



Describe core concepts of data modeling

5 min



Describe considerations for data visualization

5 min



Exercise – Explore fundamentals of data visualization with Power BI

20 min



Knowledge check

3 min



Summary

1 min



+ Add

Keep up the great work!



Microsoft Azure Data
Fundamentals: Explore data
analytics in Azure




Explore fundamentals of data
visualization

You have earned 2 achievements!

Congratulations, but what should you do next?

Implement a Data Streaming Solution with Azure Stream Analytics:



Get started with Azure Stream Analytics

40 min • Module • 7 Units


★★★★★ 4.7 (2,162)

Azure Stream Analytics enables you to process real-time data streams and integrate the data they contain into applications and analytical solutions.

Overview ^

Introduction	1 min	✓
Understand data streams	5 min	✓
Understand event processing	5 min	✓
Understand window functions	6 min	✓
Exercise - Get started with Azure Stream Analytics	15 min	✓
Knowledge check	3 min	✓
Summary	5 min	✓

⊕ Add



Keep up the great work!

Get started with Azure Stream Analytics

You have earned an achievement!

Congratulations, but what should you do next?



Ingest streaming data using Azure Stream Analytics and Azure Synapse Analytics

✓ 900 XP

1 hr 14 min • Module • 8 Units

★★★★★ 4.8 (237)

Azure Stream Analytics provides a real-time data processing engine that you can use to ingest streaming event data into Azure Synapse Analytics for further analysis and reporting.

Overview ^

Introduction

1 min



Stream ingestion scenarios

5 min



Configure inputs and outputs

9 min



Define a query to select, filter, and aggregate data

5 min



Run a job to ingest data

3 min



Exercise - Ingest streaming data into Azure Synapse Analytics

45 min



Knowledge check

3 min



Summary

3 min



⊕ Add

Keep up the great work!



Ingest streaming data using
Azure Stream Analytics and
Azure Synapse Analytics

You have earned an achievement!

Congratulations, but what should you do next?



Visualize real-time data with Azure Stream Analytics and Power BI

800 XP

1 hr 8 min • Module • 7 Units

★★★★★ 4.8 (307)

By combining the stream processing capabilities of Azure Stream Analytics and the data visualization capabilities of Microsoft Power BI, you can create real-time data dashboards.

Overview ^

Introduction

2 min



Use a Power BI output in Azure Stream Analytics

6 min



Create a query for real-time visualization

6 min



Create real-time data visualizations in Power BI

5 min



Exercise - Create a real-time data visualization

45 min



Knowledge check

3 min



Summary

1 min



+ Add

Keep up the great work!



Implement a Data Streaming
Solution with Azure Stream
Analytics




Visualize real-time data with
Azure Stream Analytics and
Power BI

You have earned 2 achievements!

Congratulations, but what should you do next?

Azure for the Data Engineer:



Understand the evolving world of data

28 min • Module • 6 Units

★★★★★ 4.7 (8,434)


Learn how data systems are evolving and how the changes affect data professionals. Explore the differences between on-premises and cloud data solutions, and consider sample business cases that apply cloud technologies.

Overview ^

- Introduction
3 min ✓
- Data abundance
5 min ✓
- Understand the difference between on-premises and cloud-based servers
5 min ✓
- Understand job responsibilities
5 min ✓
- Use cases for the cloud
5 min ✓
- Summary
5 min ✓

⊕ Add

Keep up the great work!



Understand the evolving world
of data

You have earned an achievement!

Congratulations, but what should you do next?



Survey the services on the Microsoft Intelligent Data Platform

1200 XP

58 min • Module • 11 Units

★★★★★ 4.7 (9,490)

Learn about Azure technologies that analyze text and images and relational, nonrelational, or streaming data. See how data engineers can choose the technologies that meet their business needs and scale to meet demand securely.

Overview ^

Introduction	5 min	✓
Explore data types	5 min	✓
Understand data storage in Azure Storage	5 min	✓
Understand data storage in Azure Data Lake Storage	5 min	✓
Understand Azure Cosmos DB	5 min	✓
Understand Azure SQL Database	5 min	✓
Understand Azure Synapse Analytics	5 min	✓
Understand Azure Stream Analytics	8 min	✓
Understand Azure HDInsight	5 min	✓
Understand other Azure data services	5 min	✓
Summary	5 min	✓

⊕ Add

Keep up the great work!



Survey the services on the
Microsoft Intelligent Data
Platform

You have earned an achievement!

Congratulations, but what should you do next?



Identify the tasks of a data engineer in a cloud-hosted architecture

600 XP

25 min • Module • 5 Units

★★★★★ 4.8 (10,561)

Learn about the responsibilities of a data engineer. Find out how they relate to the jobs of other data and AI professionals. Explore common data engineering practices and a high-level architecting process for a data-engineering project.

Overview ^

Introduction

5 min



Identify job roles

5 min



Identify data engineering processes

5 min



Analyze a data engineer's tasks

5 min



Summary

5 min



+ Add

Keep up the great work!



Azure for the Data Engineer




Identify the tasks of a data
engineer in a cloud-hosted
architecture

You have earned 2 achievements!

Congratulations, but what should you do next?

Automate Database Tasks for Azure SQL:



Automate deployment of database resources

47 min • Module • 8 Units


★★★★★ 4.7 (501)

Explore multiple deployment models available on Azure. Use Azure Resource Manager (ARM) templates and Bicep files for deploying Azure SQL resources. Understand how to use PowerShell and Azure CLI for automation purposes.


Overview ^

Introduction	1 min	✓
Describe deployment models in Azure	6 min	✓
Automate deployment by using Azure Resource Manager templates and Bicep	12 min	✓
Automate deployment by using PowerShell	4 min	✓
Automate deployment by using Azure CLI	6 min	✓
Exercise: Deploy an Azure SQL Database using an Azure Resource Manager template	12 min	✓
Knowledge check	5 min	✓
Summary	1 min	✓

+ Add



Keep up the great work!



Automate deployment of
database resources

You have earned an achievement!

Congratulations, but what should you do next?



Create and manage SQL Agent jobs

700 XP

41 min • Module • 6 Units

★★★★★ 4.7 (499)

Explore SQL automation for scheduled tasks, and automatic alerts for SQL Server and Azure SQL Managed Instance.

Overview ^

Introduction

1 min



Create a SQL Server maintenance plan

15 min



Describe task status notifications

7 min



Knowledge check

5 min



Exercise: Create a CPU status alert for a SQL Server

12 min



Summary

1 min



+ Add

Keep up the great work!



Create and manage SQL Agent
jobs

You have earned an achievement!

Congratulations, but what should you do next?



Manage Azure PaaS tasks using automation

✓ 1000 XP

53 min • Module • 9 Units

★★★★★ 4.8 (555)

Explore automation for Azure SQL platform. Configure elastic jobs, explore Azure Automation, and evaluate different strategies for monitoring automation tasks.

Overview ^

Introduction

1 min



Explore Elastic jobs

5 min



Understand Azure Automation

9 min



Build an automation runbook

6 min



Automate database workflows by using Logic Apps

3 min



Monitor automated tasks

8 min



Exercise: Deploy an automation runbook to automatically rebuild indexes

15 min



Knowledge check

5 min



Summary

1 min



+ Add

Keep up the great work!



Automate database tasks for
Azure SQL



Manage Azure PaaS tasks using
automation

You have earned 2 achievements!

Congratulations, but what should you do next?