✓ 100 XP ▶

Introduction

1 minute

Increased use of technology by individuals, companies, and other organizations, together with the proliferation of smart devices and Internet access has led to a massive growth in the volume of data that can be generated, captured, and analyzed. Much of this data can be processed in real-time (or at least, *near* real-time) as a perpetual *stream* of data, enabling the creation of systems that reveal instant insights and trends, or take immediate responsive action to events as they occur.

Learning objectives

In this module, you'll learn about the basics of stream processing and real-time analytics, and the services in Microsoft Azure that you can use to implement real-time data processing solutions. Specifically, you'll learn how to:

- Compare batch and stream processing
- Describe common elements of streaming data solutions
- Describe features and capabilities of Azure Stream Analytics
- Describe features and capabilities of Spark Structured Streaming on Azure

> ⓘ **Note**
>
> This module is designed to present a conceptual overview of real-time processing and describe Azure services that can be used to build real-time analytics solutions. It is not intended to teach implementation details for creating a stream processing solution.

Next unit: Understand batch and stream processing

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