



Build distributed apps with .NET Aspire (AZ-2009)

ID AZ-2009 **Price** 690.— €(excl. tax) **Duration** 1 day

Course Overview

Learn how to build observable, production ready, distributed applications with .NET Aspire.

Prerequisites

Experience building web applications using .NET and C#

Course Content

Introduction to .NET Aspire

Learn about the .NET Aspire stack in .NET 8 and how you can use it to ease and accelerate the development of cloud-native web applications.

- Introduction
- What is .NET Aspire?
- Learn about .NET Aspire integrations
- Learn about .NET Aspire tools
- Exercise - Use the .NET Aspire eShop
- Knowledge check
- Summary

Create a .NET Aspire project

Learn how to create cloud-native applications from scratch or add orchestration to an existing app by using the .NET Aspire stack in .NET 8.

- Introduction
- Learn how to create a new .NET Aspire project
- Exercise - Create a new .NET Aspire project
- How to add orchestration to an existing .NET app
- Exercise - Integrate an existing ASP.NET Core web app
- Knowledge check
- Summary

Use telemetry in a .NET Aspire project

Learn how to use telemetry in a .NET Aspire project to log data and examine the behavior of a cloud-native application.

- Introduction
- Telemetry APIs in .NET
- Using OpenTelemetry in .NET Aspire
- Using the .NET Aspire dashboard
- Using a logger to add custom log messages
- Exercise - Use telemetry in a .NET Aspire project
- Knowledge check
- Summary

Use databases in a .NET Aspire project

Learn about the database systems that .NET Aspire can connect to using built-in integrations. Then see how to configure connections to, and store data in, relational and nonrelational databases.

- Introduction
- Store data in SQL-compliant databases
- Store data in NoSQL databases
- Exercise - Use database services to persist data from a .NET Aspire project
- Create tests with .NET Aspire
- Knowledge check
- Summary

Improve performance with a cache in a .NET Aspire project

Learn about using Redis caching to increase performance in a cloud-native application. You'll also discover how .NET Aspire makes it easy to access Redis caching services from your microservices.

- Introduction
- Caches and Redis
- Using a Redis distributed cache
- Using a Redis output cache
- Customize connection strings by using .NET Aspire manifests
- Exercise - Cache data in Redis
- Knowledge check
- Summary

Send messages with RabbitMQ in a .NET Aspire project

Learn how to use message queues on RabbitMQ exchange



servers to decouple microservices and manage communications in a cloud-native application built with .NET Aspire.

- Introduction
- What is RabbitMQ?
- Sending messages with RabbitMQ
- Exercise - Send messages between microservices through RabbitMQ
- Knowledge check
- Summary

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

Fast Lane Services

- ✓ High End Technology Training
- ✓ Business & Soft Skill Training
- ✓ Consulting Services
- ✓ Managed Training Services
- ✓ Digital Learning Solutions
- ✓ Content Development
- ✓ Remote Labs
- ✓ Talent Programs
- ✓ Event Management Services

Training Methods

- ✓ Classroom Training
- ✓ Instructor-Led Online Training
- ✓ FLEX Classroom – Classroom & Online Hybrid
- ✓ Onsite & Customized Training
- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobile Learning

Technologies & Solutions

- ✓ Digital Transformation
- ✓ Artificial Intelligence
- ✓ Cloud
- ✓ Networking
- ✓ Cyber Security
- ✓ Wireless & Mobility
- ✓ Modern Workplace
- ✓ Data Center



Worldwide Presence
with high-end training centers
around the globe



Multiple Awards
from vendors such as AWS,
Microsoft, Cisco, Google, NetApp,
VMware



Experienced SMEs
with over 19.000 combined
certifications

Germany

**Fast Lane Institute for Knowledge
Transfer GmbH**
Tel. +49 40 25334610
info@flane.de / www.flane.de

Austria

ITLS GmbH
(Partner of Fast Lane)
Tel. +43 1 6000 8800
info@itls.at / www.itls.at

Switzerland

**Fast Lane Institute for Knowledge
Transfer (Switzerland) AG**
Tel. +41 44 8325080
info@flane.ch / www.flane.ch