## Learning path for Azure Solutions Architect

Master the skills needed to design solutions that run on Azure. A Microsoft Azure Solutions Architect must have expertise in compute, network, storage, and security.

### Deploying and Configuring Infrastructure
- **AZ-300T01**
  - 9H 35M - 12 Modules
  - 1. Principles of cloud computing
  - 2. Introduction to Azure
  - 3. Azure architecture and service guarantees
  - 4. Create an Azure account
  - 5. Manage services with Azure portal
  - 6. Azure compute options
  - 7. Azure data storage options
  - 8. Azure networking options
  - 10. Apply and monitor infrastructure standards with Azure Policy
  - 11. Control and organize Azure resources with Azure Resource Manager
  - 12. Predict costs and optimize spending for Azure

### Implementing Workloads and Security
- **AZ-300T02**
  - 4H 15M - 5 Modules
  - 1. Align requirements with cloud types and service models in Azure
  - 2. Control Azure services with the CLI
  - 3. Automate Azure tasks using scripts with PowerShell
  - 4. Predict costs and optimize spending for Azure
  - 5. Control and organize Azure resources with Azure Resource Manager

### Understanding Cloud Architecture Technology Solutions
- **AZ-300T03**
  - 4H 17M - 5 Modules
  - 1. Pillars of a great Azure architecture
  - 2. Design for security in Azure
  - 3. Design for performance and scalability in Azure
  - 4. Design for efficiency and operations in Azure
  - 5. Design for availability and recoverability in Azure

### Creating and Deploying Apps
- **AZ-300T04**
  - 5H 31M - 6 Modules
  - 1. Introduction to Azure Databricks
  - 2. Read and write data by using Azure Databricks
  - 3. Perform exploratory data analysis with Azure Databricks
  - 4. Train, evaluate, and select machine-learning models with Azure Databricks
  - 5. Deep learning with Azure Databricks
  - 6. Perform text analytics with Azure Databricks

### Developing for the Cloud
- **AZ-300T06**
  - 10H 23M - 9 Modules
  - 1. Introduction to Azure Databricks
  - 2. Access SQL Data warehouse instances with Azure Databricks
  - 3. Data ingestion with Azure data factory
  - 4. Read and write data using Azure Databricks
  - 5. Perform basic data transformations in Azure Databricks
  - 6. Perform advanced data transformation in Azure Databricks
  - 7. Create data pipelines using Databricks Delta
  - 8. Work with streaming data in Azure Databricks
  - 9. Create data visualizations using Azure Databricks and Power BI

### Certification helps establish your credentials with current and future employers.

Pass certification exams **AZ-300** and **AZ-301** to become a Microsoft Certified Azure Solutions Architect Expert.