

Section 2: Identity and Security
Preparation Course for Exam AZ-301
Microsoft Azure Architect Design

[Design for identity and security \(20-25%\)](#)

Design Identity Management

Choose an identity management approach; design an identity delegation strategy, identity repository (including directory, application, systems, etc.); design self-service identity management and user and persona provisioning; define personas and roles; recommend appropriate access control strategy (e.g., attribute-based, discretionary access, history-based, identity-based, mandatory, organization-based, role-based, rule-based, responsibility-based)

- [Microsoft Cloud Adoption Framework for Azure](#)
- [Azure security best practices and patterns](#)

Design Authentication

Choose an authentication approach; design a single-sign on approach; design for IPSec, logon, multi-factor, network access, and remote authentication

- [Authenticate using Azure AD and OpenID Connect](#)
- [Azure Active Directory Seamless Single Sign-On](#)
- [Azure Active Directory Seamless Single Sign-On: Technical deep dive](#)
- [User Privacy and Azure AD Seamless Single Sign-On](#)
- [Azure Active Directory Seamless Single Sign-On: Quick start](#)
- [Design for security in Azure](#)

Design Authorization

Choose an authorization approach; define access permissions and privileges; design secure delegated access (e.g., OAuth, OpenID, etc.); recommend when and how to use API Keys

- [Security best practices for Azure solutions](#)
- [Choose the right authentication method for your Azure Active Directory hybrid identity solution](#)
- [Azure security best practices and patterns](#)
- [Role-based and resource-based authorization](#)

- [Ensure that proper authorization is in place and principle of least privileges is followed](#)
- [About API Management](#)
- [How to secure back-end services using client certificate authentication in Azure API Management](#)

Design for Risk Prevention for Identity

Design a risk assessment strategy (e.g., access reviews, RBAC policies, physical access); evaluate agreements involving services or products from vendors and contractors; update solution design to address and mitigate changes to existing security policies, standards, guidelines and procedures

- [Choose a solution for integrating on-premises Active Directory with Azure](#)

Design a Monitoring Strategy for Identity and Security

Design for alert notifications; design an alert and metrics strategy; recommend authentication monitors

- [Overview of alerts in Microsoft Azure](#)
- [Metrics in Azure Monitor](#)
- [What is Azure Active Directory monitoring?](#)