

Resources

Microsoft learning path: <https://docs.microsoft.com/en-us/learn/certifications/exams/az-204>

Skills outline: <https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RE4oZ7B>

Blog on AZ-204: <https://endjin.com/blog/2020/07/how-to-prepare-for-exam-az-204-developing-solutions-for-microsoft-azure>

Tools and resource management

- Install the Azure CLI: <https://docs.microsoft.com/en-us/cli/azure/install-azure-cli>
- Sign in with the Azure CLI: <https://docs.microsoft.com/en-us/cli/azure/authenticate-azure-cli>
- Install Visual Studio:
<https://docs.microsoft.com/en-us/visualstudio/install/install-visual-studio?view=vs-2019>
- Tools and resource management learning path:
<https://docs.microsoft.com/en-us/learn/paths/manage-resources-in-azure/>

Azure Compute

- Virtual machines learning path:
<https://docs.microsoft.com/en-us/learn/paths/deploy-a-website-with-azure-virtual-machines/>
- Serverless learning path:
<https://docs.microsoft.com/en-us/learn/paths/create-serverless-applications/>
- Azure App Service learning path:
<https://docs.microsoft.com/en-us/learn/paths/deploy-a-website-with-azure-app-service/>
- Create a VM using the Azure CLI:
<https://docs.microsoft.com/bs-latn-ba/azure/virtual-machines/linux/quick-create-cli>
- Create an Azure Function using Visual Studio:
<https://docs.microsoft.com/en-us/azure/azure-functions/functions-develop-vs>
- Comparison of Azure Compute platforms: <https://docs.microsoft.com/en-us/dotnet/architecture/modernize-with-azure-containers/modernize-existing-apps-to-cloud-optimized/choosing-azure-compute-options-for-container-based-applications>
- Build, push, and run a Docker image:
<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-quickstart-task-cli>
- Create a WebJob using the .NET SDK:
<https://docs.microsoft.com/en-us/azure/app-service/webjobs-sdk-get-started>

Azure Storage

- Storage learning path: <https://docs.microsoft.com/en-us/learn/paths/store-data-in-azure/>
- Azure Cosmos DB use cases: <https://docs.microsoft.com/en-us/azure/cosmos-db/use-cases>
- Introduction to Azure Storage:
<https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction>
- Set up storage account using the CLI:
<https://docs.microsoft.com/en-us/cli/azure/storage/account?view=azure-cli-latest>
- Choose the correct API in Cosmos DB learning path:
<https://docs.microsoft.com/en-us/learn/modules/choose-api-for-cosmos-db/>

Azure Security

- Security learning path: <https://docs.microsoft.com/en-us/learn/paths/secure-your-cloud-data/>
- RBAC overview: <https://docs.microsoft.com/en-us/azure/role-based-access-control/overview>
- Add/remove role assignments using the Azure CLI:
<https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-cli>
- Set up Key Vault secrets using .NET SDK:
<https://docs.microsoft.com/en-us/azure/key-vault/secrets/quick-create-net>
- Add authentication to Azure App Service with Azure AD: <https://docs.microsoft.com/en-us/azure/app-service/scenario-secure-app-authentication-app-service>
- Azure AD, security principals, and managed identities: <https://endjin.com/blog/2019/01/managing-applications-using-azure-ad-service-principals-and-managed-identities>

Azure monitoring, optimizing, and troubleshooting

- Connect to Azure Redis Cache from the .NET SDK: <https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-dotnet-how-to-use-azure-redis-cache>
- Azure Monitor overview: <https://docs.microsoft.com/en-us/azure/azure-monitor/overview>
- Application insights overview:
<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/example-queries>
- Log analytics queries examples:
<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/example-queries>
- Transient failures: <https://docs.microsoft.com/en-us/dotnet/architecture/modernize-with-azure-containers/modernize-existing-apps-to-cloud-optimized/build-resilient-services-ready-for-the-cloud-embrace-transient-failures-in-the-cloud>

Azure Integration

- Create your first Azure Logic App:
<https://docs.microsoft.com/en-us/azure/logic-apps/quickstart-create-first-logic-app-workflow>
- APIM learning path: <https://docs.microsoft.com/en-us/learn/modules/build-serverless-api-with-functions-api-management/>
- APIM policies: <https://docs.microsoft.com/en-us/azure/api-management/api-management-access-restriction-policies>
- Service connections learning path:
<https://docs.microsoft.com/en-us/learn/paths/connect-your-services-together/>
- Comparing messaging services:
<https://docs.microsoft.com/en-us/azure/event-grid/compare-messaging-services>
- Comparing storage and Service Bus queues: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queues-compared-contrasted>
- Send and receive messages from Azure Storage queue using .NET SDK:
<https://docs.microsoft.com/en-us/dotnet/api/overview/azure/storage.queues-readme>