

AZ-120: Planning and administering Microsoft Azure for SAP workloads

Instructor guide

Feb 2023

This document is for Microsoft Certified Trainers teaching the *AZ-120: Planning and administering Microsoft Azure for SAP workloads* course.

Key takeaways

1. The **labs and the demos are designed to be performed on the VMs** that are provided for the course. The VMs include all necessary tools to complete the demos and labs. Labs performed outside of the VMs is an unsupported scenario.
2. To complete the labs and any demos in this course, **students need a personal Microsoft account**.
3. Course timings are for example only. Some of the presentation sections may take more, or less, time depending on the skills/experience of your students.
4. All of the **demos have step-by-step instructions** in the student manual so the students can follow along with the instructor.

AZ-120 certification exam

This course helps students prepare for the [AZ-120: Planning and administering Microsoft Azure for SAP workloads](#) certification exam.

AZ-120 includes four study areas, as shown in the table. The percentages indicate the relative weight of each area on the exam. The higher the percentage, the more questions you are likely to see in that area.

AZ-120 study areas	Weight
Migrate SAP Workloads to Azure	25-30%
Design and Implement an Infrastructure to Support SAP Workloads	25-30%
Design and Implement High Availability and Disaster Recovery (HA/DR)	20-25%
Maintain SAP Workloads on Azure	15-20%

✓ **Note:** The relative weightings are subject to change. For the latest information visit the [exam page](#) and review the **Skills measured** section.

Course design

These courses are designed to support the certification study areas. Each module in the course matches up with one of the objectives of the exam. This is to make it easier for students to brush up on specific areas of the exam they need to work on.

Subscriptions

To complete the labs in this course, students should use the lab environment provided by an Authorized Lab Host (ALH). This environment includes all necessary software and services required to complete the lab exercises, which may include virtual machines, cloud subscriptions, and other software as required. As a trainer, you should familiarize yourself with the lab environment provided by your ALH before teaching the course.

Labs

Some of the modules in the course contain one or more labs. The lab guides are available on [Github](#). Students require a personal Microsoft account for labs and exams. They to set up or confirm their account by visiting <https://account.microsoft.com>. Student materials link to the [HTML lab format](#).

Demos

The student materials contain links to all of the demos in the course. You might choose to have the students follow along as you perform the demo, using the instructions available on [Github](#). This is a good way to actively engage the students with the content. Students should use the VMs included with the course when completing these, they contain all of the tools necessary to complete them.

Many of the demos include links to tools used in the demos. These links are provided **only** for the scenario where the student wishes to practice on their own.

Course timing

The tables below show the approximate daily timings for a four day course delivery. The number of slides is an *approximation*, changes will occur over time. Duration is shown in *h:mm*.

Day 1

Topic	Duration	Start time	End Time
Module 00 (17 slides)	0:30	9:00 AM	09:30 AM
Module 01 (31 slides)	1:00	9:30 AM	10:30 AM
Break	0:15	10:30 AM	10:45 AM
Module 02 (69 slides)	2:00	10:45 AM	12:45 PM
Lunch	1:00	12:45 PM	1:45 PM

Day 1 continued

Lab 01	1:30	1:45 PM	3:15 PM
Break	0:15	3:15 PM	3:30 PM
Lab 02	2:00	3:30 PM	5:30 PM

(Labs 01 and 02 are optional, and you may choose to teach only one of them, or neither, depending on time available.)

Day 2

Topic	Duration	Start time	End Time
Day 1 Review	0:15	9:00 AM	09:15 AM
Module 03 (37 slides)	1:15	9:15 AM	10:30 AM
Break	0:15	10:30 AM	10:45 AM
Module 04 (24 slides)	1:00	10:45 AM	12:45 PM
Lunch	1:00	12:45 PM	1:45 PM
Lab 03	1:30	1:45 PM	3:15 PM
Break	0:15	3:25 PM	3:40 PM
Lab 04	2:30	3:40 PM	6:00 PM

(Labs 03 and 04 are optional, and you may choose to teach only one of them, or neither, depending on time available.)

Day 3

Topic	Duration	Start time	End Time
Day 2 Review	0:15	9:00 AM	09:15 AM
Module 05 (44 slides)	1:30	9:15 AM	10:45 AM
Module 06 (36 slides)	1:45	10:45 AM	12:30 PM
Lunch	1:00	12:30 PM	1:30 PM
Module 07 (19 slides)	1:00	1:30 PM	2:30 PM
Break	0:15	2:30 PM	2:45 PM
Wrap-up	0:15	2:45 PM	3:00 PM

Recommended whiteboarding design session (optional): [SAP plus extend and innovate](#)

Preparing to teach

In the next sections we will cover the main course components and how they can be used in class. This includes PowerPoint slides, module review questions, reference links, demos, and labs. There is a lot of flexibility in how you use this content to create the best learning experience for your students.

PowerPoint slides

PowerPoint slides are provided to help you teach the course. But if you simply read the slide you will not have enough content to fill the scheduled time. Be sure to go through the materials in the main content for the course to ensure you're covering things fully.

- There is a Module 00 PowerPoint file. This includes an agenda, listing modules and lessons for the course. We recommend you customize this file for your specific situation. For example, you could add an introduction slide and an overview of the classroom facilities.
- The PowerPoint files include slides that are designated as demos. The course includes a good deal of hands-on guidance that is combined with additional information to create a richer learning experience for the student.

Module review questions

Module review questions are provided at the end of the module. Note these questions are not at the level of the certification exam. You may wish to supplement with questions of your own choosing.

You can use these review questions in several ways:

- As a group, go through the questions before moving on to another section.
- Sprinkle the questions into the content as you cover the appropriate material.

Recommended whiteboarding design session (optional)

[SAP plus extend and innovate](#) is a workshop that contains a whiteboard design session student activity. This session is recommended as a way for students to apply concepts from the course (where time permits). The basic steps for students are to:

1. [Review the customer case study.](#)
2. [Design a proof of concept solution.](#)
3. [Present the solution.](#)

There is also an instructor's guide and presentation materials for the activity. Instructors should modify the activity to fit available time. Instructors presenting remotely will need to prepare virtual breakout rooms with a whiteboard for each student team.

Reference links

The course content for the students includes many reference links. The main reason for this is the Azure documentation is constantly being updated.

- Before you teach the course, use the reference links to validate the content is still current. Pay attention to capabilities and limits. For example, preview features and virtual machine sizes.
- Let students know they can use the reference links after the course to review and confirm what they learned.

Course resources

There are a lot of resources to help you learn about Azure. We recommend you bookmark these pages.

- [Microsoft Learning Community Blog](#): Get the latest information about the certification tests and exam study groups.
- [Microsoft Learn](#): Free role-based learning paths and hands-on experiences for practice
- [Azure Fridays](#): Join Scott Hanselman as he engages one-on-one with the engineers who build the services that power Microsoft Azure, as they demo capabilities, answer Scott's questions, and share their insights.
- [Microsoft Azure Blog](#): Keep current on what's happening in Azure, including what's now in preview, generally available, news & updates, and more.
- [Azure Documentation](#): Stay informed on the latest products, tools, and features. Get information on pricing, partners, support, and solutions.

Connect with others

- MCT Central – Your one stop for all things MCT. Stay up to date with the latest MCT news, learn about upcoming events, find job opportunities, or connect with other MCTs around the world. You can also ask questions and discuss a variety of topics including courseware and certification with Microsoft and other MCTs through the MCT Central Forums.
- MOC Courseware Support – If there are problems with a course or you need to log a support ticket, contact the Official Support channel for MOC courses. This channel is monitored by support agents and is the quickest way to log your course support issue.

Instruction overview

Module 1: Explore Azure for SAP workloads

You will learn how to:

- Explore Azure for SAP workloads
- Discover common terms and meanings
- Identify SAP-certified configurations
- Examine SAP NetWeaver with AnyDB on Azure virtual machines
- Examine SAP S4 HANA on Azure virtual machines

Module 2: Explore the foundations of IaaS

You will learn how to:

- Explore Azure compute
- Explore Azure networking
- Explore Azure storage
- Explore Azure databases

Contains the following online labs:

- [Online Lab: Implement Linux clustering on Azure VMs](#)
- [Online Lab: Implement Windows clustering on Azure VMs](#)

Module 3: Explore the foundations of identity and governance

You will learn how to:

- Explore identity services
- Explore Azure remote management
- Explore Azure governance and manageability

Module 4: Deploy SAP on Azure

You will learn how to:

- Deploy single-instance implementations (2-tier and 3-tier)
- Implement high availability in SAP NetWeaver with AnyDB on Azure virtual machines

Contains the following online labs:

- [Online Lab: Implement SAP architecture on Azure VMs running Linux](#)
- [Online Lab: Implement SAP architecture on Azure VMs running Windows](#)

Module 5: Ensure business continuity and implement disaster recovery for SAP solutions on Azure

You will learn how to:

- Implement high availability for SAP workloads in Azure
- Implement disaster recovery for SAP workloads in Azure
- Perform backups and restores

Module 6: Migrate SAP workloads to Azure

You will learn how to:

- Use the SAP workload planning and deployment checklist
- Explore migration options, including database migration option (DMO) methodology and cloud migration options
- Migrate very large databases (VLDB) to Azure

Module 7: Monitor and troubleshoot Azure for SAP workloads

You will learn how to:

- Explore monitoring requirements of Azure for SAP workloads
- Configure the Azure Enhanced Monitoring Extension for SAP
- Explore Azure virtual machine licensing, pricing, and support

Feedback

These courses are different from the traditional MOC courses that have been provided in the past. We have provided a framework for you to work with. Take time to prepare and think about the value that only an instructor can bring to training. We hope to partner with you to provide an exceptional student experience and we welcome your feedback.

Happy learning!

Azure for SAP workloads courseware development team