



WorkshopPLUS - Azure SQL Database Essentials

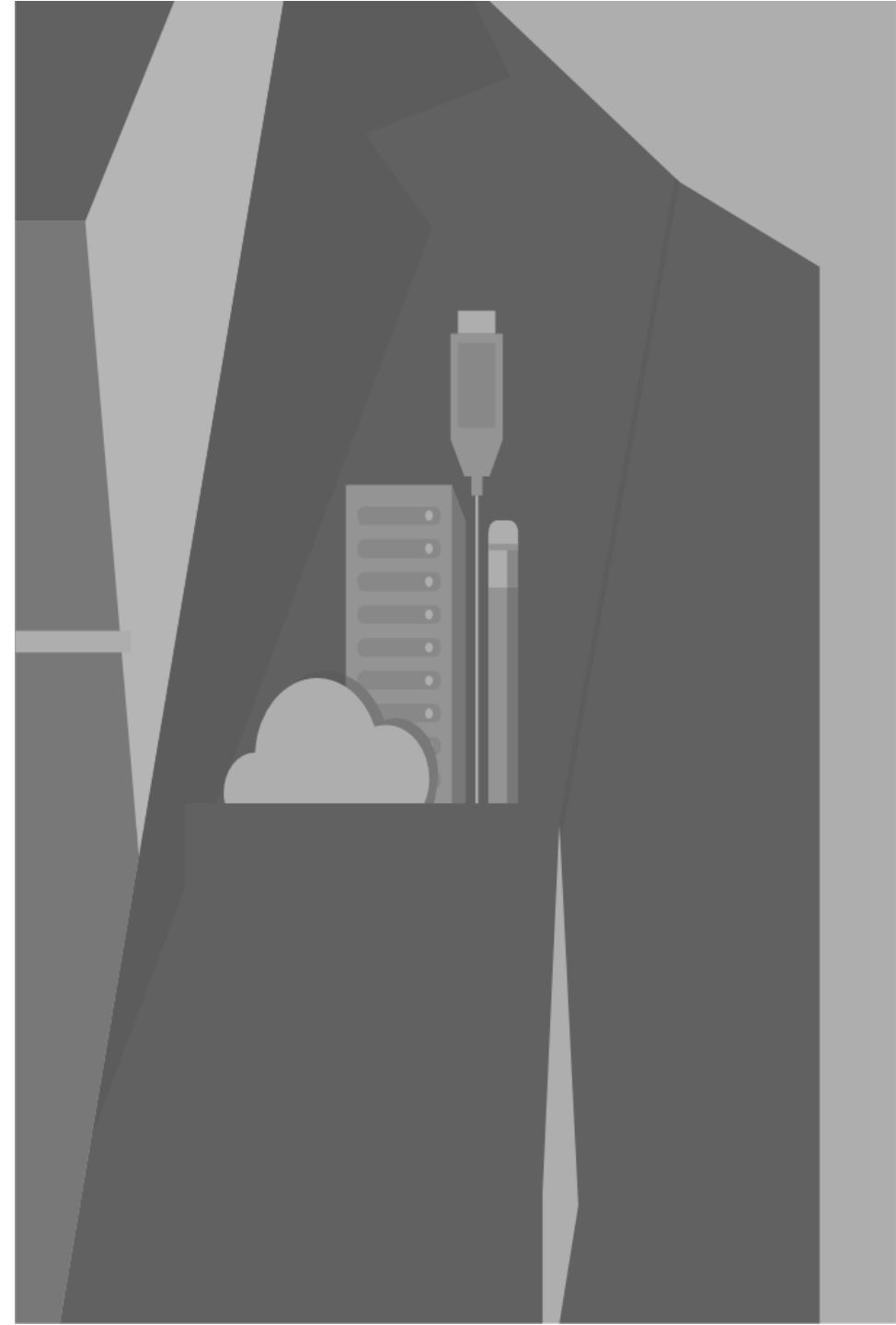


Instructor Introduction

Name

Specialty

Experience



Attendee Introductions

Name

Job/Team/Specialty/Experience

Time Zone

Expectations



Facilities

Class
hours

Building
hours

Parking

Restrooms

Meals

Phones

Messages

Recycling

Modules



Introduction to Azure SQL Database

Azure SQL Database Administration

Azure SQL Database Business Continuity

Manage Security for Azure SQL Database

Manage Data Protection for Azure SQL Database

Monitoring and Tuning Azure SQL Database

Azure SQL Database Migration

Objectives

After completing Azure SQL Database Essentials workshop, you will be able to:

Describe the different purchase models, service tiers compute and hardware generation

Describe the Azure Elastic Database Pool

Describe the vertical scaling options

Understand the maintenance and job scheduling

Understand the disaster recovery options

Learn the various options to manage security such as firewall rules, virtual networks

Learn how to secure data using Transparent Data Encryption and Always Encrypted

Learn the various options to monitor and troubleshoot the Azure SQL Database

Agenda Day 1

Introduction to Azure SQL Database

- Basic concepts of Azure SQL Database
- How to create Azure SQL Database
- Introduction to Elastic Database Pools

Azure SQL Database Administration

- Various Tools to Manage Azure SQL Database
- Scaling Azure SQL Databases Up and Down
- Maintenance and Scheduling Jobs



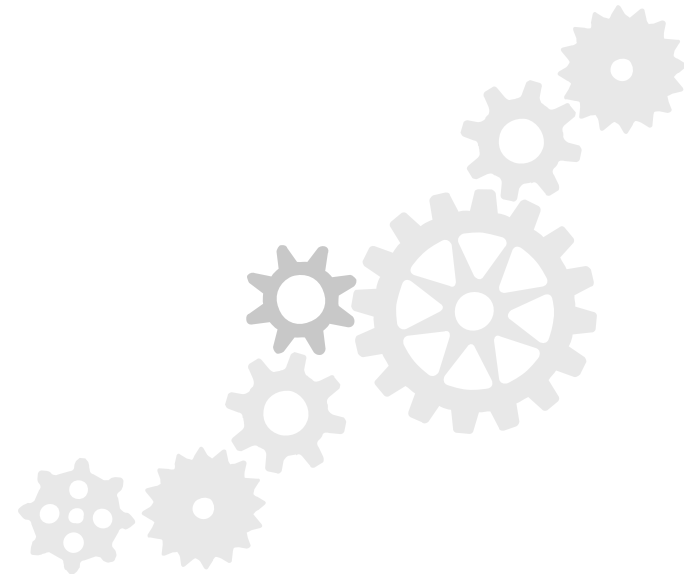
Agenda Day 2

Azure SQL Database Business Continuity

- Business Continuity Features in Azure SQL Database
- Disaster Recovery Features in Azure SQL Database
- Backing up and Restoring Azure SQL Database

Manage Security for Azure SQL Database

- Introduction to Azure SQL Database Security
- Implement Entra ID Security
- Manage Logins in Azure SQL Database
- Implement Firewall Rules and Virtual Networks
- Implement Auditing for Azure SQL Database
- Implement Ledger for Azure SQL Database
- Data Discovery and Classification
- Implement Microsoft Defender for SQL



Agenda Day 3

Manage Data Protection for Azure SQL Database

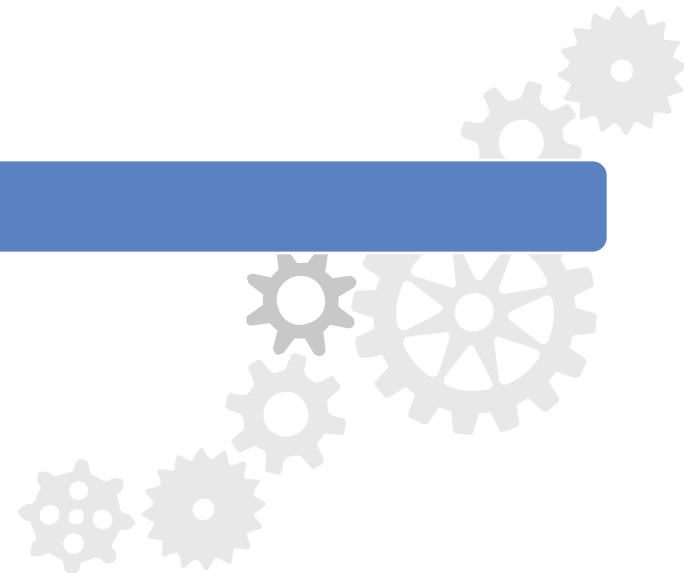
- Implement Data Encryption In Transit
- Implement Transparent Data Encryption
- Implement Always Encrypted
- Implement Row Level Security
- Implement Dynamic Data Masking

Monitoring and Tuning Azure SQL Database

- Configure Alerts through Azure Portal
- Monitoring and Troubleshooting Azure SQL Database
- Azure SQL Database Tuning using Automatic Tuning
- Monitoring Azure SQL Database Performance using Extended Events

Azure SQL Database Migration

- Steps to migrate your database to Azure SQL Database
- Fix database migration compatibility issues
- Identify the right Azure SQL Database SKU
- Migrate a compatible SQL Server database to Azure SQL Database



Lab Times - (Minutes)

M01L02Lab01 - Create an Azure SQL Database (20)

M02L01Lab01 - Various Tools to Manage Azure SQL Database (30)

M02L02Lab01 - Scale up or down an Azure SQL Database (10)

M02L03Lab01 - Elastic Database Jobs (30)

M03L01Lab01 - Point in time restore of an Azure SQL Database (20)

M03L02Lab01 - Configure Geo Replication for an Azure SQL Database (20)

M04L10Lab01 - Vulnerability Assessment (20)

M05L06Lab01 - Implement Always Encrypted (20)

M05L07Lab01 - Implement Row Level Security (10)

M06L02Lab01 - Monitoring Query Performance using Query Performance Insights (15)

M07L05Lab01 - Migrate a Compatible SQL Server Database to Azure SQL Database (30)

Attendee Introductions

Name

Job/Team/Specialty

Time Zone

Experience

Expectations



Get Ready to Participate

Close email and Update Status

Make it interactive

Check all equipment

Be Respectful



Five Star Service

We strive to respond to your feedback and use it to improve our business and ultimately to improve your experience with us.




Thank you!

Look for this survey in your inbox:

It will come from Microsoft Surveys
<noreply.survey@email2.microsoft.com>

Take the survey | [View it online](#)

 Microsoft

What do you think about Microsoft Proactive Support services?

Microsoft is committed to providing the highest quality support services to our customers. Take a **2-minute survey** to help us understand what's going well, and what we can do better.

This survey is specific to your **Proactive Support services delivery**:


Overall, how satisfied are you with your recent experience with the Microsoft Proactive Support Services delivery?

- ☐ [Very satisfied](#)
- ☐ [Somewhat satisfied](#)
- ☐ [Somewhat dissatisfied](#)
- ☐ [Very dissatisfied](#)
- ☐ [Do not know](#)

Thanks for your feedback. If you need help, please [contact us](#).

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 Microsoft

Connect to Lab environment

The training key is only need to perform the virtual labs.

- The classroom will be setup through a Teams meeting

Using a web browser.

- <https://aka.ms/LearningCampus>

Sign in with your Microsoft account not Corporate AD account

- Microsoft Account (Live ID)
- If you do not have one, then create it here: <http://live.com>

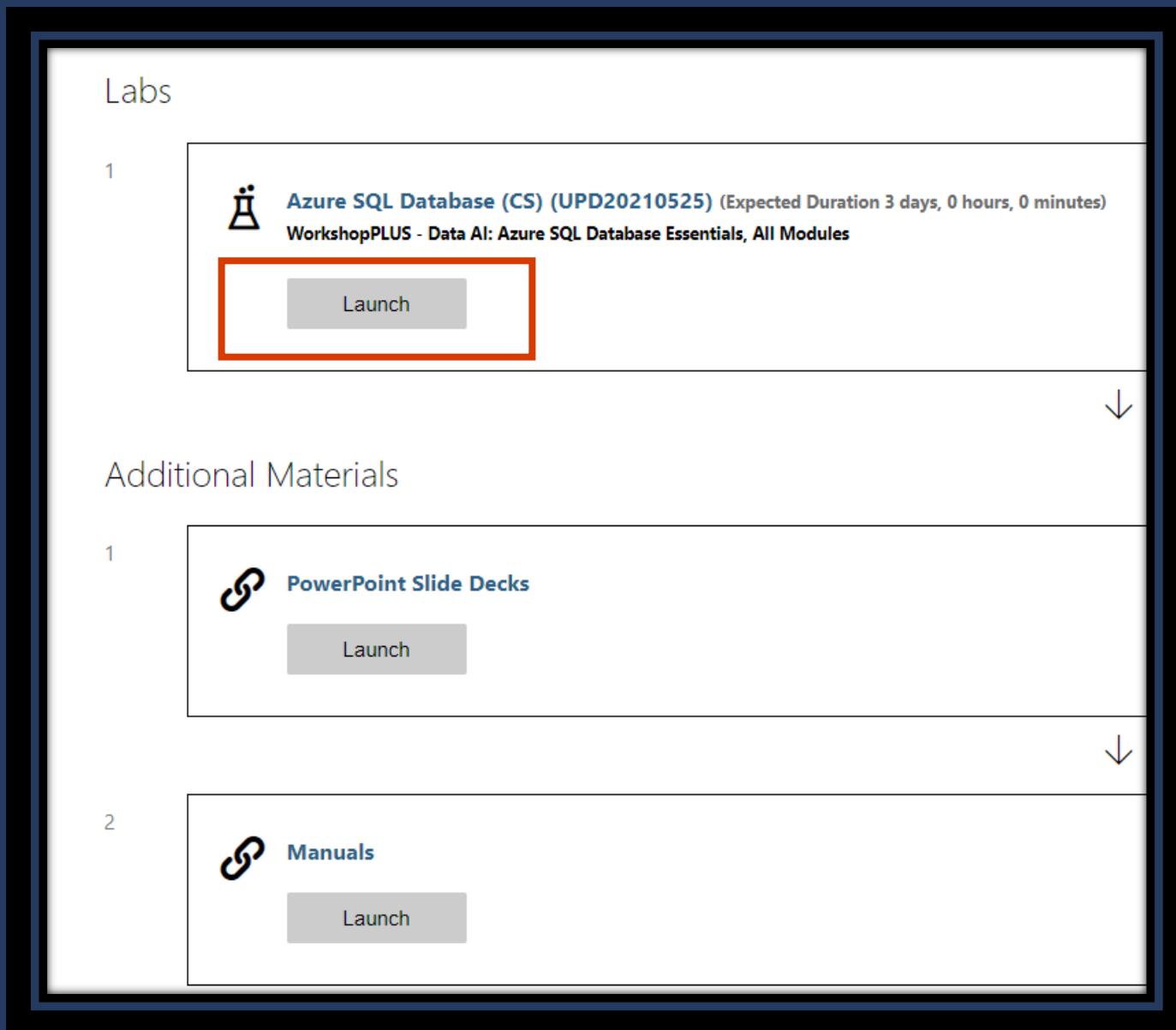
Training Key

- WorkshopPLUS -> My Training (Select at the top)
- Select Redeem Training Key
- Enter Training Key

Class Resources


Virtual Lab Environment, Slides
Decks, Lab Manuals, and Demo
Files

In the Labs section, click Launch




The screenshot displays the 'Labs' section of a learning management system. It features a list of resources, each with a numbered icon, a title, a description, and a 'Launch' button. The first resource is 'Azure SQL Database (CS) (UPD20210525)' with a duration of 3 days. The 'Launch' button for this resource is highlighted with a red rectangular box. Below this, there is an 'Additional Materials' section with two more resources: 'PowerPoint Slide Decks' and 'Manuals', each with its own 'Launch' button. The interface includes a downward arrow on the right side of each resource card and a section header 'Additional Materials'.

Labs


1  **Azure SQL Database (CS) (UPD20210525)** (Expected Duration 3 days, 0 hours, 0 minutes)
WorkshopPLUS - Data AI: Azure SQL Database Essentials, All Modules

Launch

Additional Materials

1  **PowerPoint Slide Decks**

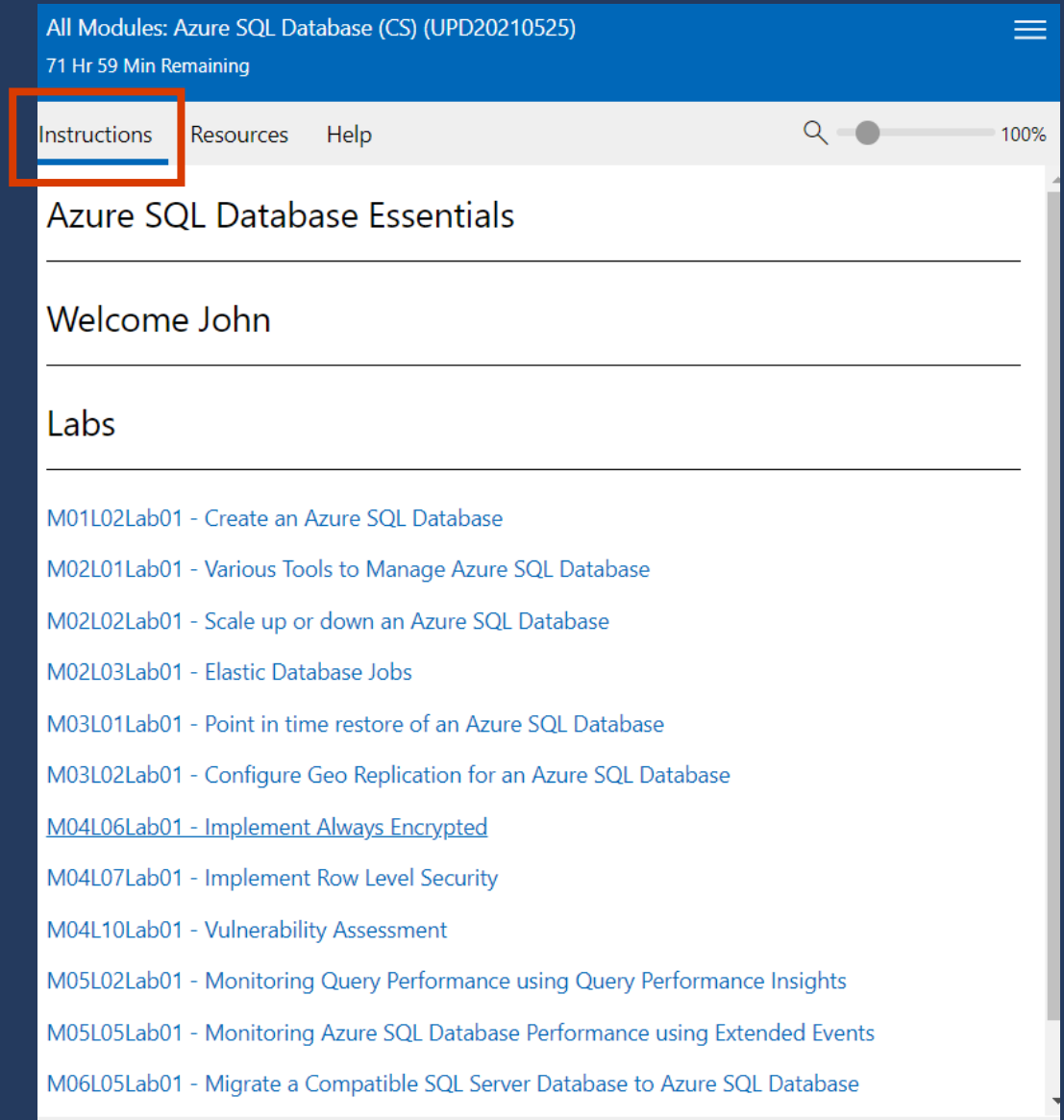
Launch

2  **Manuals**

Launch

Lab environment

Lab Instructions are shown on the right side of the virtual machine.



The screenshot shows a web application interface for 'All Modules: Azure SQL Database (CS) (UPD20210525)'. The top blue header bar contains the title and a hamburger menu icon. Below the header, a navigation bar shows 'Instructions' (highlighted with an orange box), 'Resources', and 'Help'. To the right of the navigation bar is a search icon and a zoom slider set to 100%. The main content area is titled 'Azure SQL Database Essentials' and includes a 'Welcome John' message. Below this is a section titled 'Labs' which lists twelve lab modules, each with a blue link: M01L02Lab01 - Create an Azure SQL Database, M02L01Lab01 - Various Tools to Manage Azure SQL Database, M02L02Lab01 - Scale up or down an Azure SQL Database, M02L03Lab01 - Elastic Database Jobs, M03L01Lab01 - Point in time restore of an Azure SQL Database, M03L02Lab01 - Configure Geo Replication for an Azure SQL Database, M04L06Lab01 - Implement Always Encrypted, M04L07Lab01 - Implement Row Level Security, M04L10Lab01 - Vulnerability Assessment, M05L02Lab01 - Monitoring Query Performance using Query Performance Insights, M05L05Lab01 - Monitoring Azure SQL Database Performance using Extended Events, and M06L05Lab01 - Migrate a Compatible SQL Server Database to Azure SQL Database.

All Modules: Azure SQL Database (CS) (UPD20210525)
71 Hr 59 Min Remaining

Instructions Resources Help

Azure SQL Database Essentials

Welcome John

Labs

- [M01L02Lab01 - Create an Azure SQL Database](#)
- [M02L01Lab01 - Various Tools to Manage Azure SQL Database](#)
- [M02L02Lab01 - Scale up or down an Azure SQL Database](#)
- [M02L03Lab01 - Elastic Database Jobs](#)
- [M03L01Lab01 - Point in time restore of an Azure SQL Database](#)
- [M03L02Lab01 - Configure Geo Replication for an Azure SQL Database](#)
- [M04L06Lab01 - Implement Always Encrypted](#)
- [M04L07Lab01 - Implement Row Level Security](#)
- [M04L10Lab01 - Vulnerability Assessment](#)
- [M05L02Lab01 - Monitoring Query Performance using Query Performance Insights](#)
- [M05L05Lab01 - Monitoring Azure SQL Database Performance using Extended Events](#)
- [M06L05Lab01 - Migrate a Compatible SQL Server Database to Azure SQL Database](#)

Azure Portal Environment

You must access from the Azure Virtual Machine.

Each lab has a unique Subscription, Username, and Password

You can click on the **T** next to Username and Password to paste in the virtual machine.

The screenshot displays the Azure Portal interface. At the top, there are tabs for 'Instructions', 'Resources' (which is selected), and 'Help'. Below the tabs, the title 'Azure Portal' is visible. A red rectangular box highlights a section containing connection details:

- URL: <https://portal.azure.com/#home>
- Subscription: **T** 30705a9e-9b1a-4bd3-ae9e-a431efb0c9bc
- Username: **T** LabUser-18676516@lodsasdoutlook.onmicrosoft.com
- Password: **T** Gp0Ae4@!Dg

Below this section, the 'Resource Group' is listed as 'AzureDB-RG-lod18676516'. Underneath, there is a card for 'AzureSQLDB' which includes:

- A small icon representing the database service.
- Username: **T** Administrator
- Password: **T** Pa\$\$w0rd
- A button labeled 'Ctrl+Alt+Delete'.

Virtual Machine Lab Environment

Use the Ctrl+Alt+Delete button to logon to the virtual machine.

You can click on the **T** next to Username and Password to paste in the virtual machine.

[Instructions](#) [Resources](#) [Help](#)

Azure Portal

URL <https://portal.azure.com/#home>


Subscription **T** 30705a9e-9b1a-4bd3-ae9e-a431efb0c9bc

Username **T** LabUser-18676516@lodsasdoutlook.onmicrosoft.com

Password **T** Gp0Ae4@!Dg

Resource Group

AzureDB-RG-lod18676516

**AzureSQLDB**

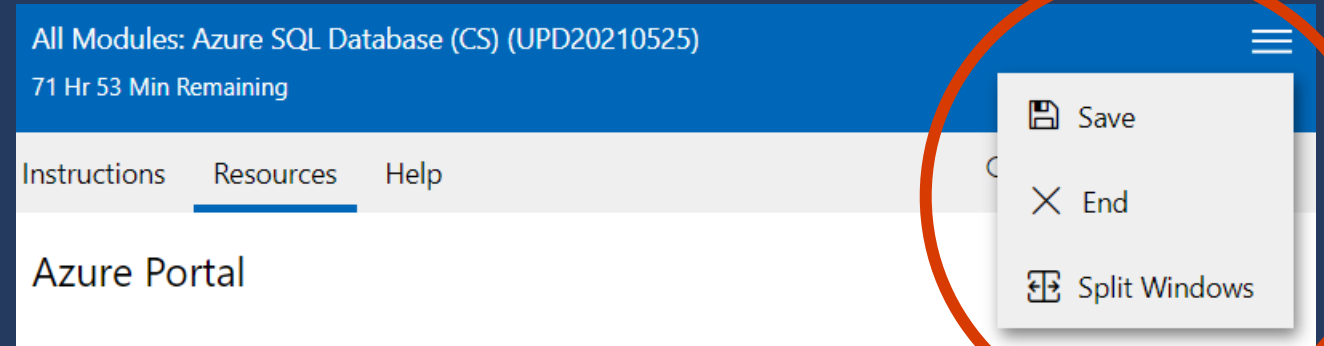
Username **T** Administrator

Password **T** Pa\$\$w0rd

Ctrl+Alt+Delete

Lab Time Remaining

- Select **Save** before leaving the Lab environment.
- If you click **End** the lab will reset.
- You can save up to 5 labs for up to 7 days.
- The lab environment is available for 180 days.
- Split Windows will allow you to move the instructions to a separate screen.



Dankie Faleminderit **Shukran** Chnorakaloutioun Hvala Blagodaria

Děkuji **Tak** Dank u Tānan Kiitos **Merci** Danke Ευχαριστώ A dank

Mahalo הודו. **Dhanyavād** Köszönöm Takk Terima kasih **Grazie** Grazzi

Thank you!

감사합니다 Paldies Choukrane Ačiū **Благодарам** ありがとうございます

谢谢 Баярлалаа **Dziękuję** Obrigado Mulțumesc **Спасибо** Ngiyabonga

Ďakujem Tack Nandri Kop khun **Teşekkür ederim** Дякую Хвала Diolch

