Microsoft

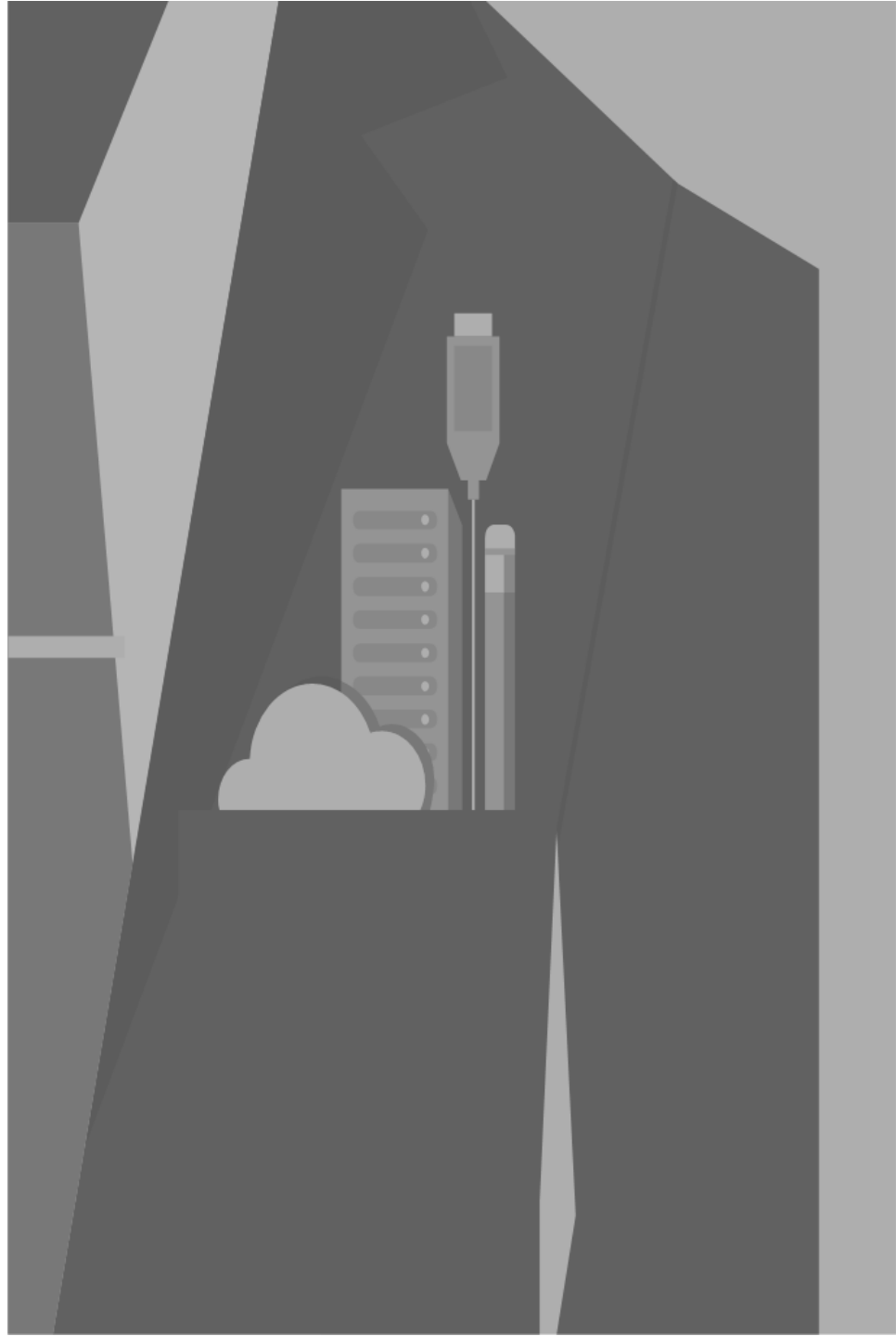
WorkshopPLUS - Azure SQL Database Essentials

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

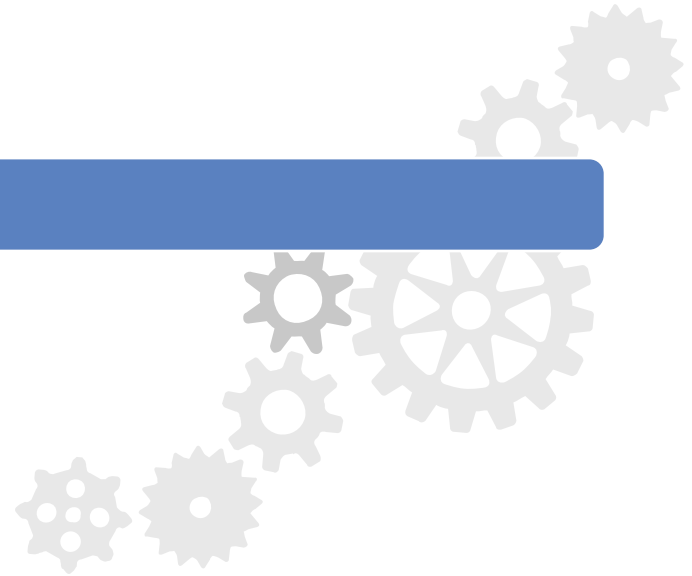
- Implement Data Encryption In Transit
- Implement Transparent Data Encryption
- Implement Always Encrypted
- Implement Row Level Security
- Implement Dynamic Data Masking

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)

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Experience

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Get Ready to Participate

Close email and Update Status

Make it interactive

Check all equipment

Be Respectful

Five Star Service

Look for this survey in your inbox:

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Take the survey | View it online

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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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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

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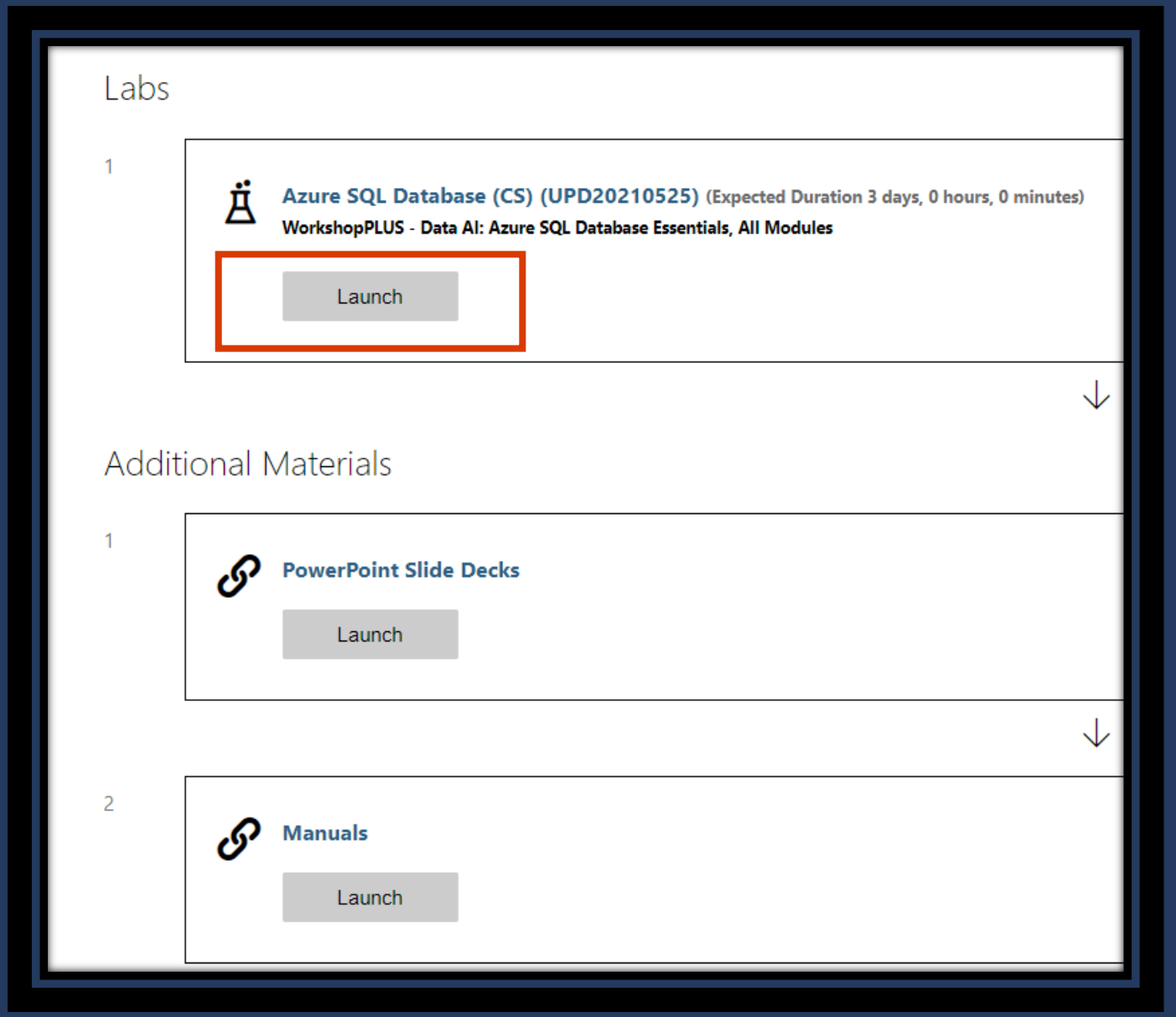
Class Resources

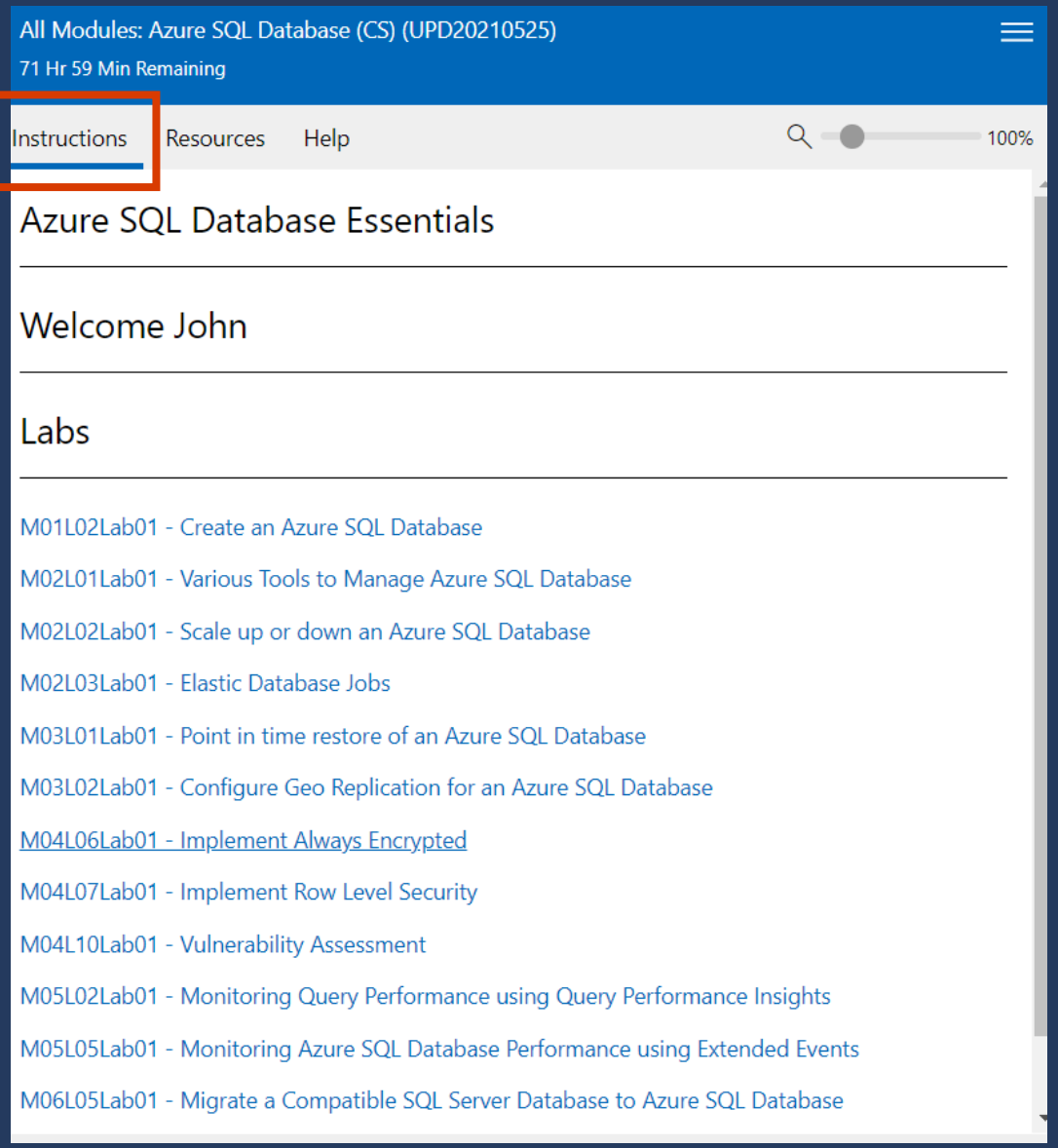
Virtual Lab Environment, Slides Decks, Lab Manuals, and Demo Files

In the Labs section, click Launch



Lab environment

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

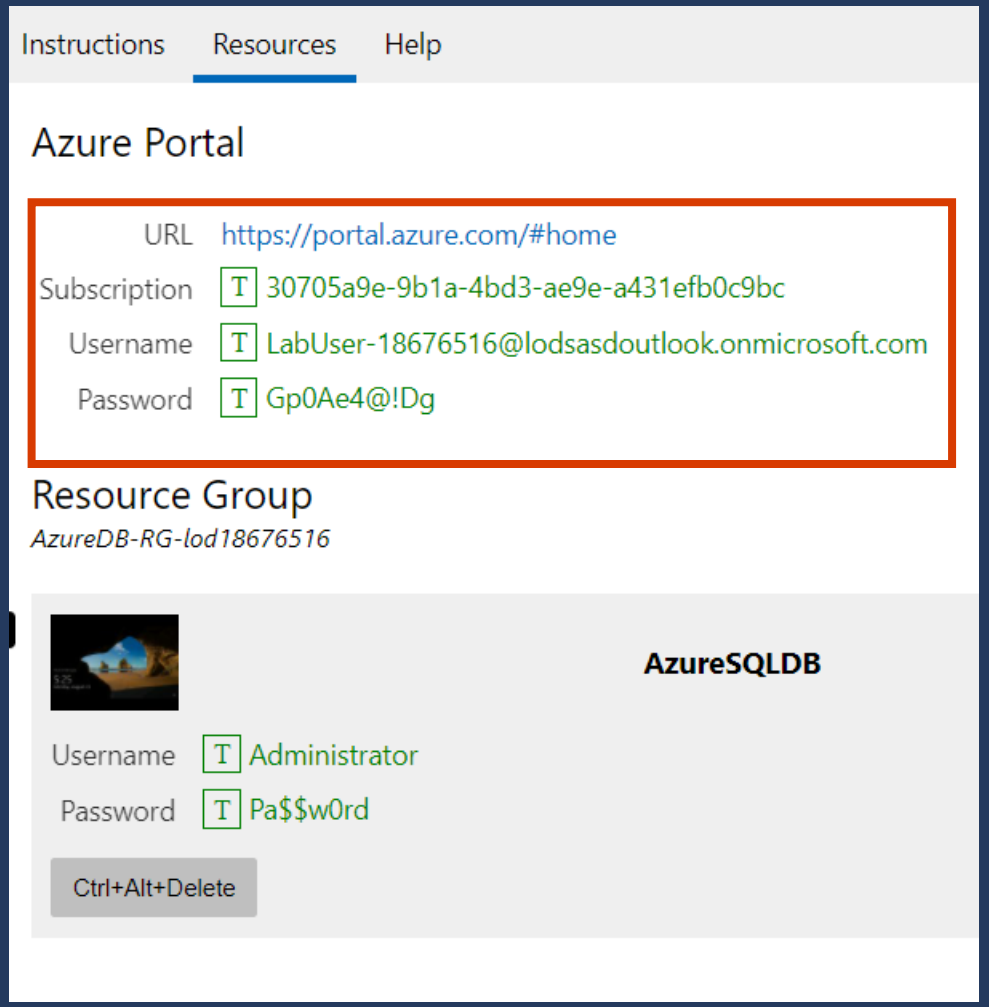


Azure Portal Environment

You must access from the Azure Virtual Machine.

Each lab has a unique Subscription, Username, and Password

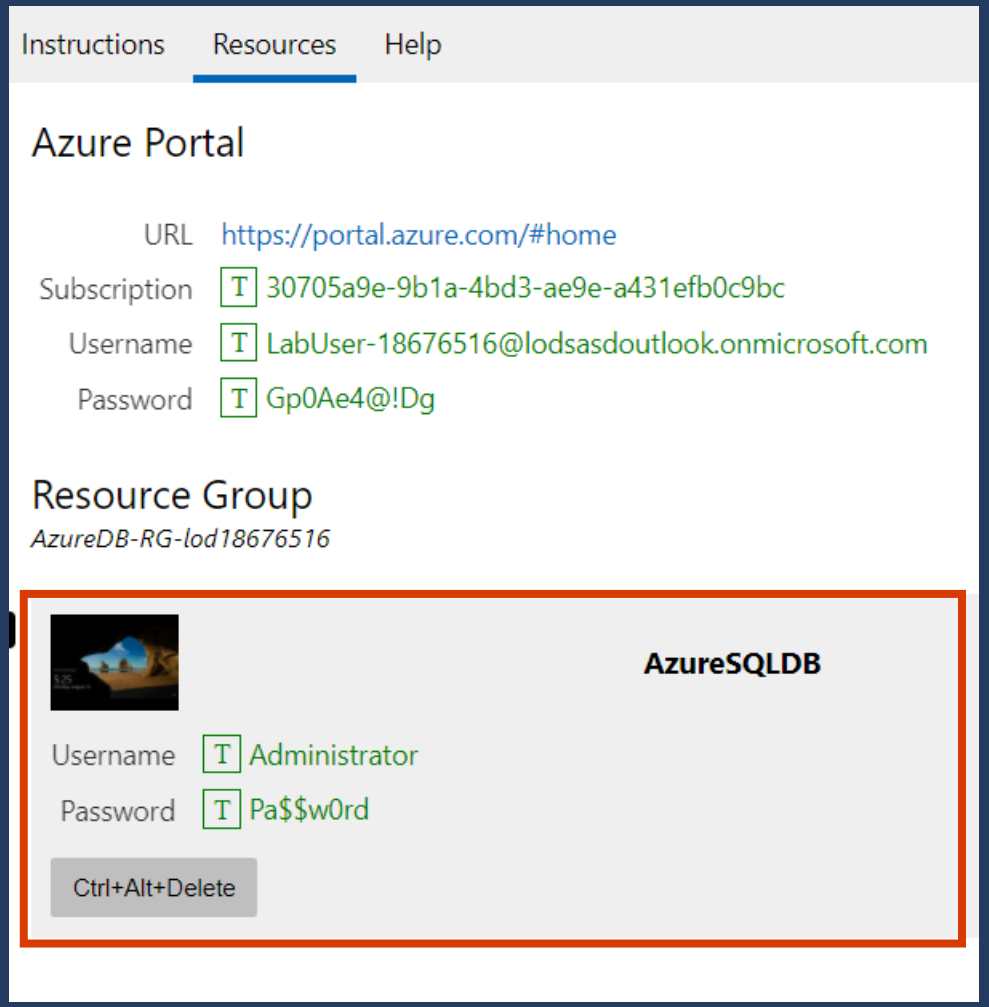
You can click on the T next to Username and Password to paste in the virtual machine.



Virtual Machine Lab Environment

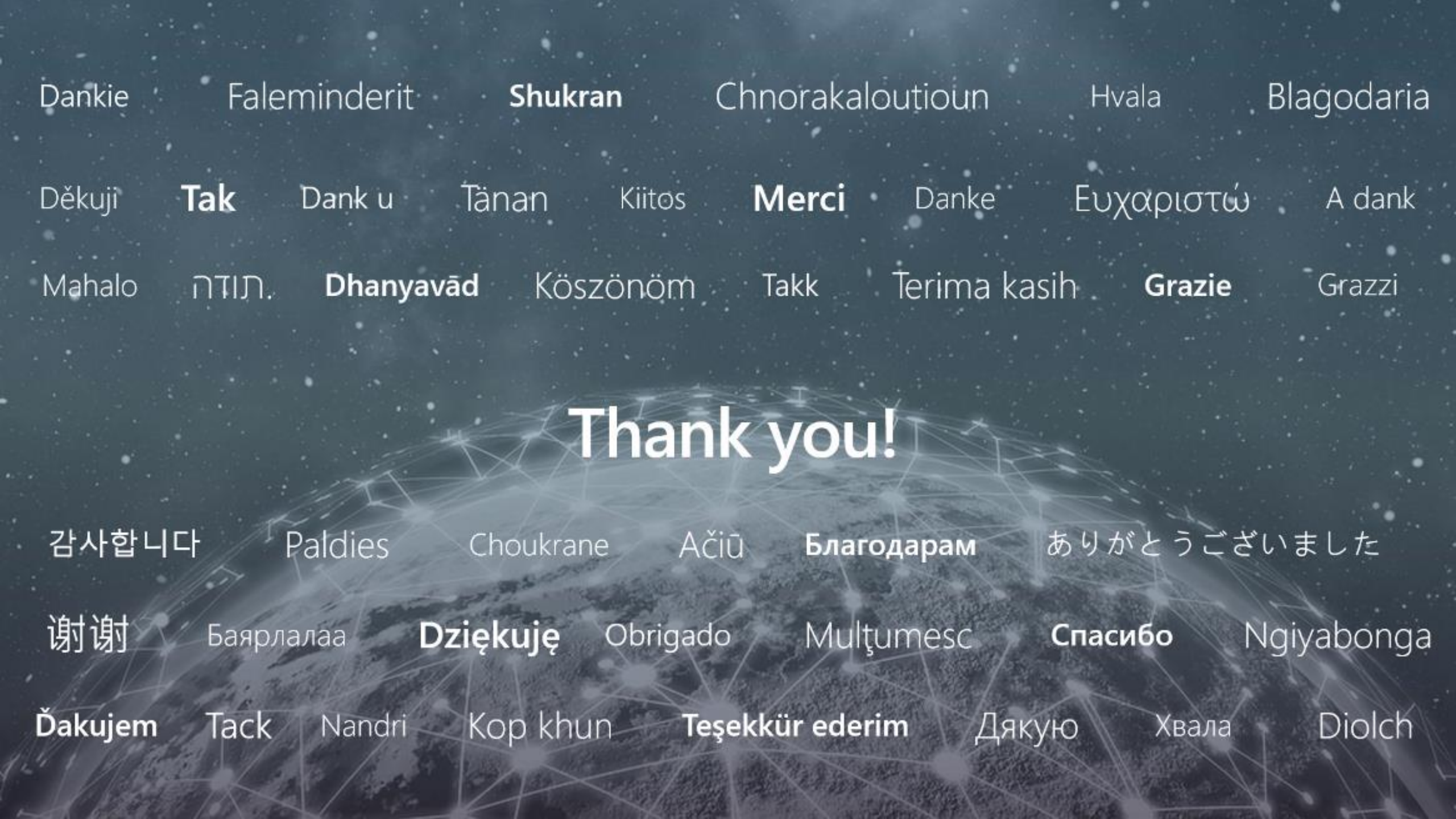
Use the Ctrl+Alt+Delete button to logon to the virtual machine.

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



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.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Faleminderit
Shukran
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Hvala
Blagodaria
Děkuji
Tak
Dank u
Tänan
Kiitos
Merci
Danke
Ευχαριστώ
A dank
Mahalo
תודה.
Dhanyavād
Köszönöm
Takk
Terima kasih
Grazie
Grazzi
Thank you!
감사합니다
Paldies
Choukrane
Ačiū
Благодарам
ありがとうございました
谢谢
Баярлалаа
Dziękuję
Obrigado
Mulţumesc
Спасибо
Ngiyabonga
Ďakujem
Tack
Nandri
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