Microsoft

WorkshopPLUS - SQL Server: Features and Administration

Microsoft Open Workshop

June 17th – 19th, 2024

10:00am – 6:00pm EST

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Objectives

After completing SQL Server Features and Administration workshop, you will be able to:

- Learn Maintenance and configuration best practices
- Monitoring performance with extended events and performance monitor.
- Discuss SQL Server performance enhancements.
- Learn SQL Service Account best practices.
- Understand Row Level Security and Dynamic Data Masking
- Understand SQL Server encryption features including Always Encrypted.
- Learn different strategies for meeting HA/DR SLAs with SQL Server
- Understand the benefits of SQL Server Failover Clustering and SQL Server availability groups.

Agenda Day 1

SQL Server Configuration And Database Maintenance

- Windows Server Configuration
- SQL Server Configuration
- Database Configuration
- Database Maintenance

Monitoring And Troubleshooting

- Monitoring Tools
- Waits Methodology To Monitor Performance
- Execution Plans
- Query Store

Agenda Day 2

Performance Features

- In-Memory OLTP Objects
- Columnstore Indexes
- Intelligent Query Processing
- Automatic Tuning

Security – General

- SQL Service Accounts
- Dynamic Data Masking
- Row Level Security
- SQL Server Auditing
- SQL Server Ledger

Agenda Day 3

Security - Encryption	SQL Server High Availability	SQL Server Disaster Recovery	Cloud Connected
• Backup Encryption • Transparent Data Encryption (TDE) • Encrypted Connections • Column Level Encryption • Always Encrypted	• Defining High Availability and Disaster Recovery • Introduction to Failover Cluster Instances • Introduction to Availability Groups	• Disaster Recovery • Backups • Restores • Backup Features	• Azure Arc-Enabled SQL Server • Microsoft Azure Purview

Follow-up workshops

SQL Server Performance Tuning and Optimization (4-days)

SQL Server Security Essentials (3-days)

SQL Server: Always On Availability Groups

- Setup and Configuration (3-days)
- Monitoring and Troubleshooting (3-days)

Azure SQL Database Essentials (3-days)

Get Ready to Participate

Close email and Update Status

Make it interactive

Check all equipment

Be Respectful of Others

Attendee Introductions

Name

Job/Team/Specialty

Time Zone

Experience

Expectations

Five Star Service

Look for this survey in your inbox:

It will come from Microsoft Surveys

<noreply.survey@email2.microsoft.com>

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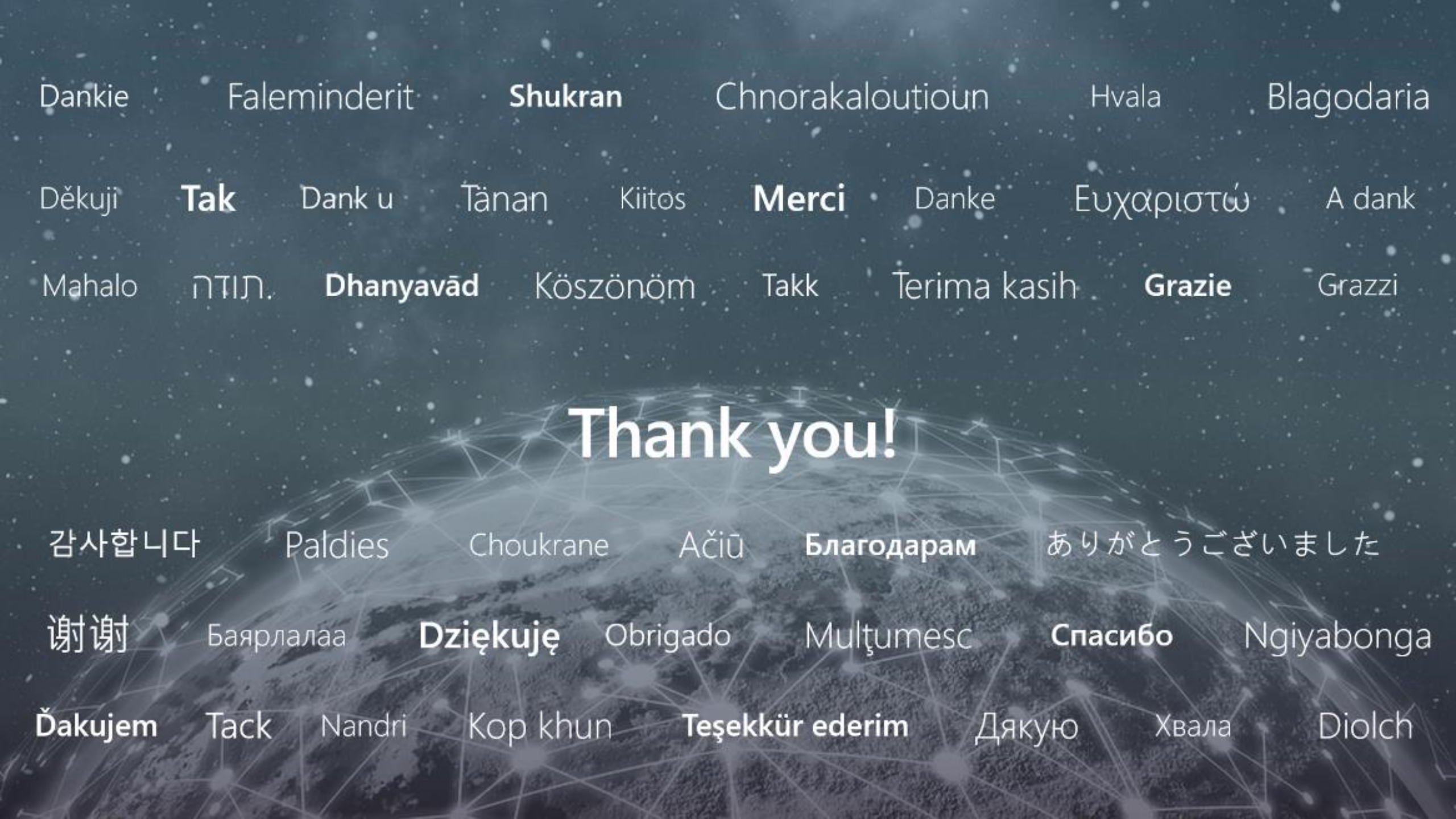
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Faleminderit
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Tak
Dank u
Tänan
Kiitos
Merci
Danke
Ευχαριστώ
A dank
Mahalo
תודה.
Dhanyavād
Köszönöm
Takk
Terima kasih
Grazie
Grazzi
Thank you!
감사합니다
Paldies
Choukrane
Ačiū
Благодарам
ありがとうございました
谢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

Connect to Lab environment

Prerequisites and Overview

Using the desktop version of IE go to

- https://aka.ms/premiereducation

Sign in with your Microsoft account

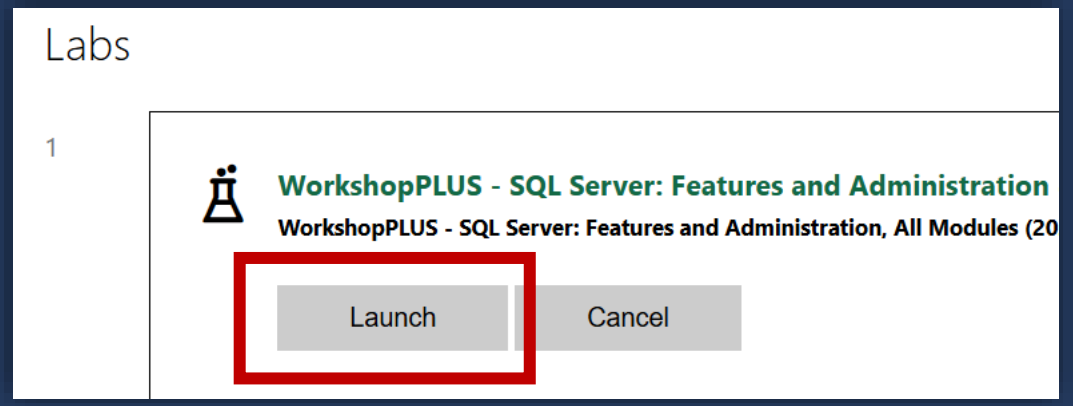
- Live ID or Azure ID
- If you do not have one, then create it here:
- http://live.com

Training Key

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

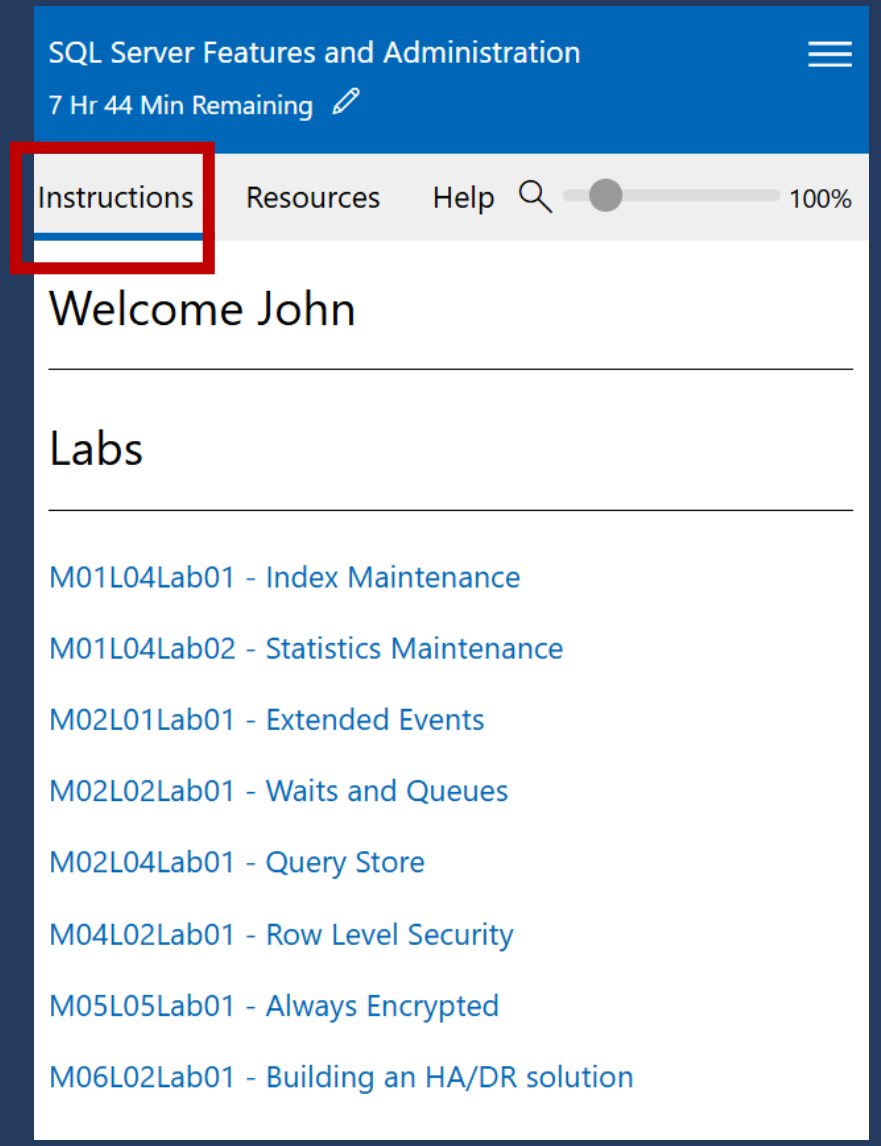
Launch Lab

In the Labs section, click Launch



Lab Instrutions

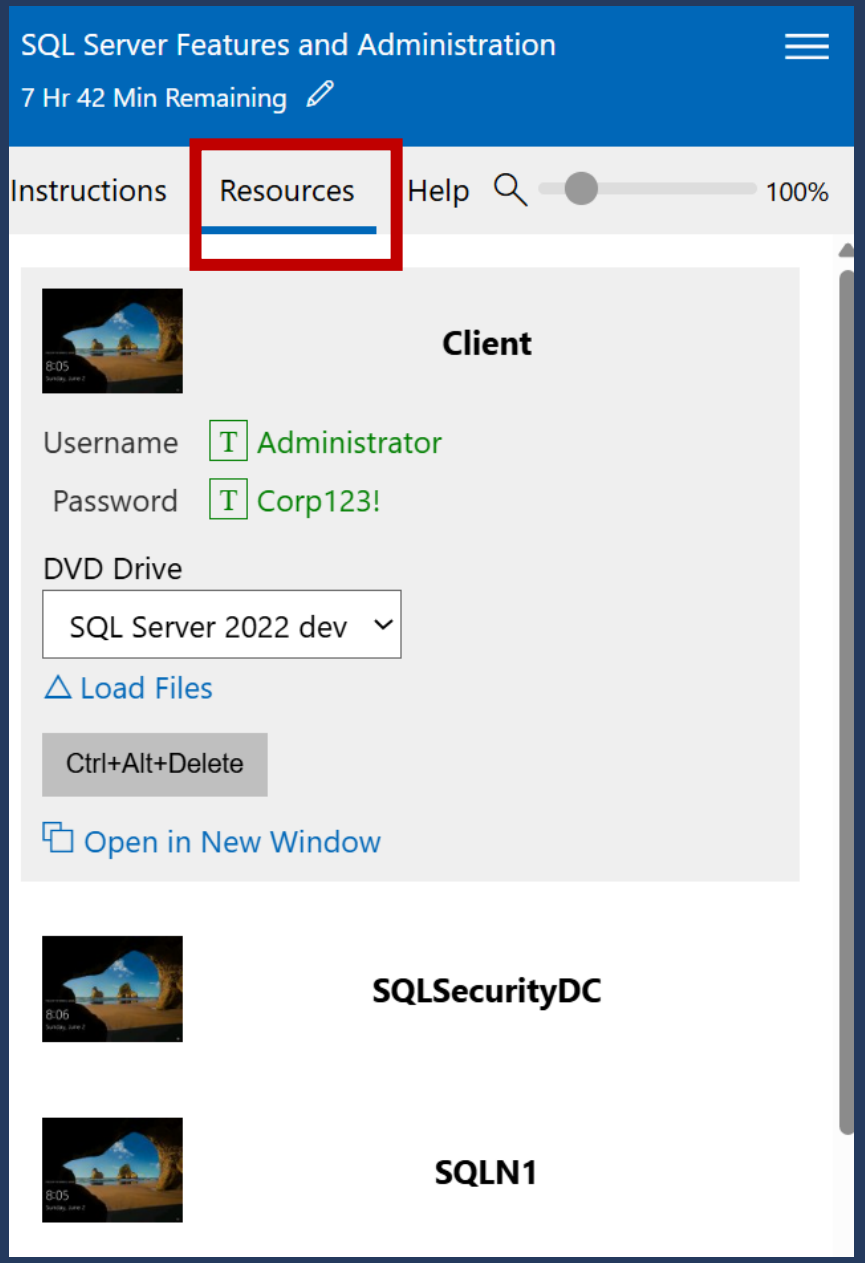
The first page show the lab instructions.



Lab environment LOD

Click on the resources tab to switch between your virtual machines and to Login.

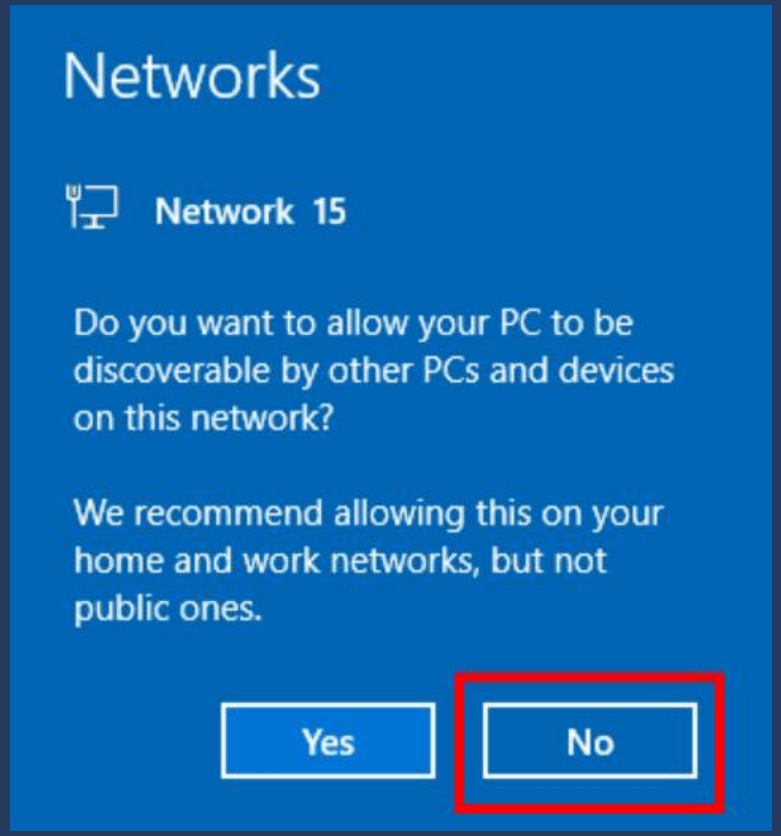
The Green T will paste in login information



Lab environment LOD Network Settings

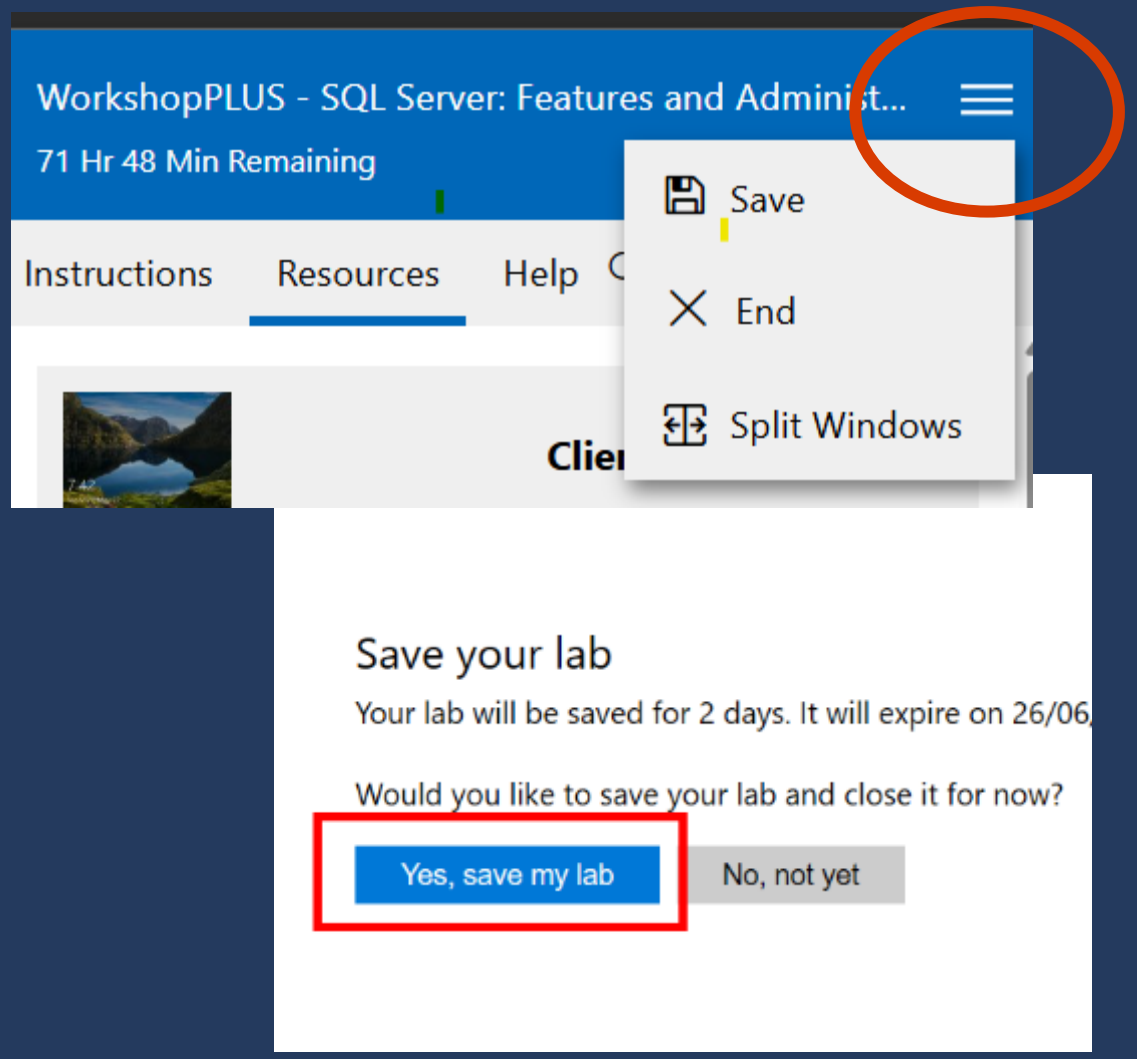
Select Yes or No to allow the server to be discoverable.

It doesn’t matter in this training environment.



LOD Lab
Time Remaining

Ensure you select Save before leaving the LOD environment. This pauses the time remaining to complete the Labs.



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