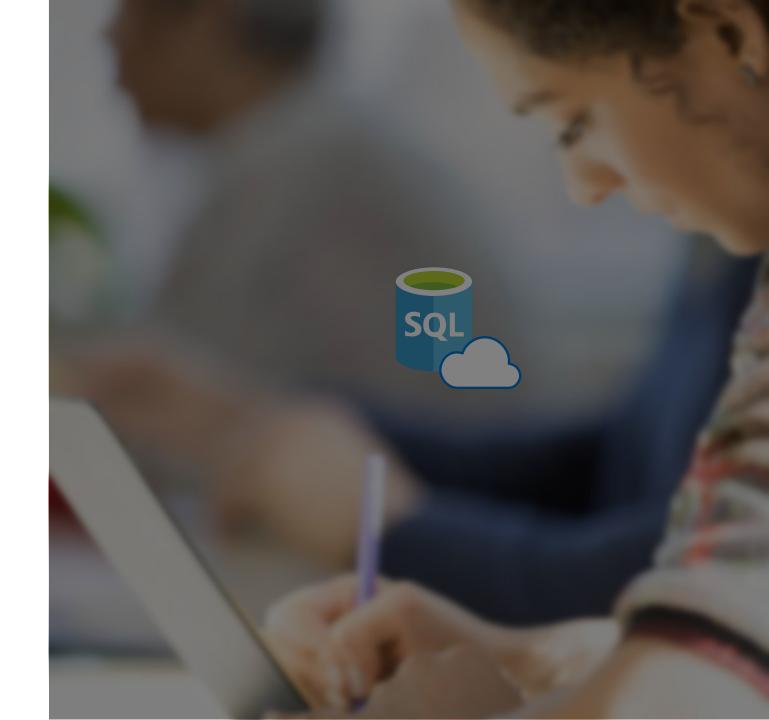


WorkshopPLUS - SQL Server: Features and Administration

Microsoft Open Workshop

May $21^{st} - 23^{rd}$, 2025





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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

- What is SQL Server?
- SQL Server Service Accounts
- 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

Security – General

- Authentication and Authorization
- Row Level Security
- Dynamic Data Masking
- SQL Server Auditing

Security - Encryption

- Backup Encryption
- Transparent Data Encryption (TDE)
- Encrypted Connections
- Column Level Encryption
- Always Encrypted

Agenda Day 3

SQL Server High Availability

- Defining High Availability and Disaster Recovery
- Introduction to Failover Cluster Instances
- Introduction to Availability Groups

SQL Server Disaster Recovery

- Disaster Recovery
- Backups
- Restores
- Backup Features

SQL Server Platform Choices

- SQL Server on Linux
- SQL Server on Containers
- SQL Server in Microsoft Azure

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 <u>View it online</u>
Microso	oft
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 :
	w satisfied are you with your recent experience with the Microsoft support Services delivery?
O <u>Very</u>	satisfied
O Some	ewhat satisfied
O Some	ewhat dissatisfied
O <u>Very</u>	dissatisfied
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Thanks for y	your feedback. If you need help, please <u>contact us</u> .
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Faleminderit Shukran Chnorakaloutioun Dankie Blagodaria Hvala Tak Dank u Tänan Kiitos **Merci** Danke Ευχαριστώ A dank Děkuji Köszönöm Takk Terima kasih Mahalo תודה. Dhanyavād Grazie

Thank you!

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

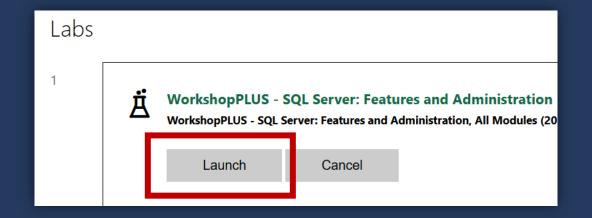
- Live ID or Azure ID
- If you do not have one, then create it here:
- http://live.com

Training Key

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

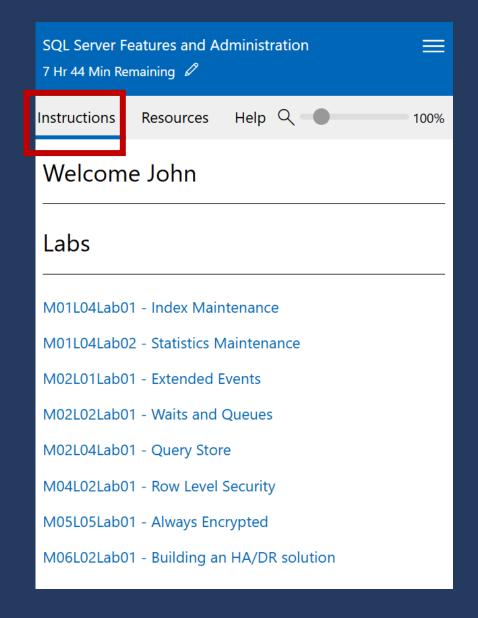
Launch Lab

In the Labs section, click Launch



Lab Instructions

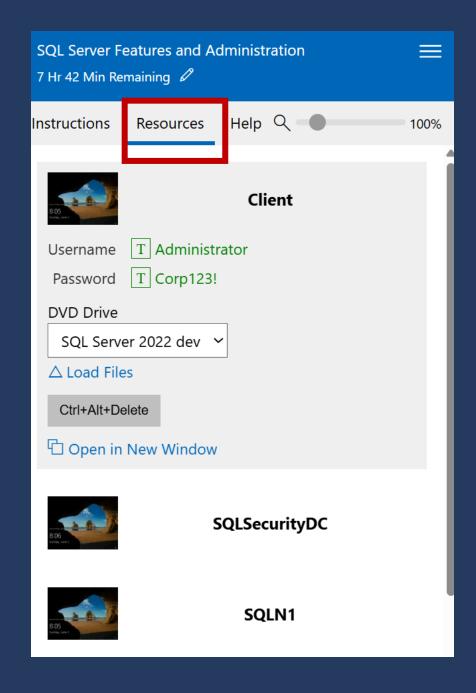
The first page show the lab instructions.



Lab environment LOD

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

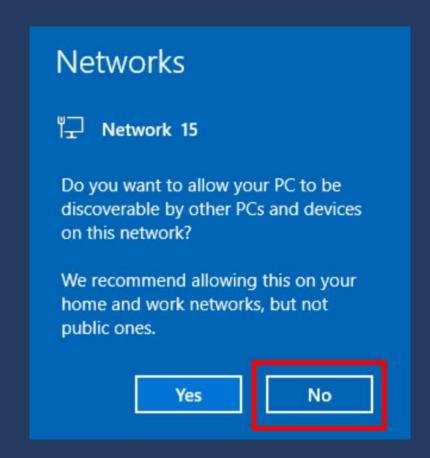
The Green T will paste in login information



Lab environment LOD Network Settings

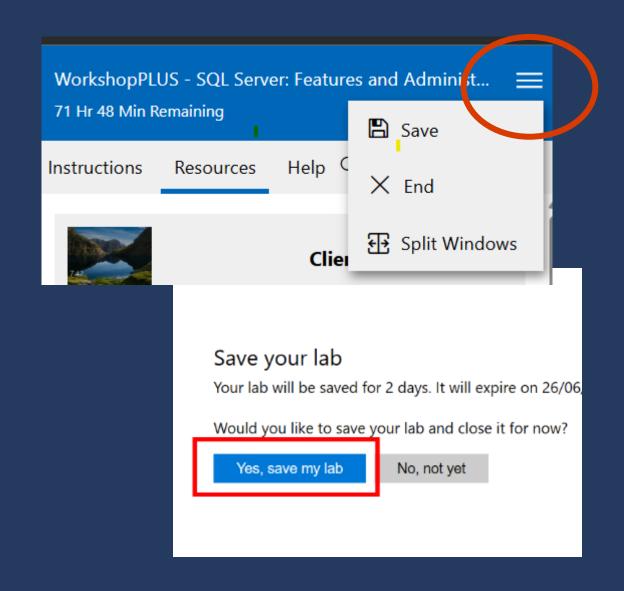
Select Yes or No to allow the server to be discoverable.

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.



Lab environment

You can also use the lightning bolt in the top left corner to paste code from outside your virtual machine into your lab environment.

