Objectives: --

Database Connectivity and Troubleshooting in SQL 🡪( **Using Universal Data Link (UDL) Files**:)

1. If multiple SQL Server instances in your environment are impacted, or the issue is intermittent, it usually indicates Windows policy or networking issues.

Preparation:--

1. Before start troubleshooting check, prerequisites and checklist troubleshooting connectivity issues for logs that you should collect to assist with troubleshooting.

Common Connectivity issue –

1. A network related or instance specific issue error occurred while establishing a connection with sql server
2. Can not generate SSPI context
3. Login failed for user

Covers the following Login errors:

* "Login failed for user 'NT AUTHORITY\ANONYMOUS LOGON'"
* "Login failed for user '(null)'"
* "Login failed for user (empty)"
* "Login failed for user '<username>'"
* "Login failed for user '<domain>\<username>'"

1. Time out expired.
2. An existing connection was forcibly closed by remote host
3. Token based server access failed

Tools and Methods that help you troubleshoot connectivity issues –

1. Configure firewall to work with SQL Server
2. Test connections to SQL server by using UDL files
3. Use portqueryUI tool
4. Check weather SQL server is listening on dynamic or statics ports
5. User Kerberos configuration manager to fix SPN issues