

## Episode Title: Troubleshoot hybrid authentication issues

### Objectives:

At the end of this episode, I will be able to:

1. Describe directory synchronization
2. Explain AD FS scenarios
3. Troubleshoot in hybrid scenarios

### Key Points:

#### Key Point 1

There are two types of directory synchronization: cloud sync and connect sync. Depending on which service is used will provide options for troubleshooting authentication in a hybrid scenario.

#### Key Point 2

Authentication with AD FS can complicate the authentication and troubleshooting process. Be aware of services that rely on AD FS in your environment and the additional components that might be involved.

#### Key Point 3

Hybrid connectivity can change the network path that authentication uses. Ensure that the communication between on-premises and Azure is working as part of troubleshooting authentication.

- If additional resources are used during the episode, they can be obtained using the download link on the overview episode (e.g. diagrams, no powerpoints)

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### External Resources:

If external resources were used during this episode, you can reference the following external resources for supplementary tools and information, if none were used, then this section will be blank:

- Cloud sync troubleshooting  
: <https://learn.microsoft.com/en-US/entra/identity/hybrid/cloud-sync/how-to-troubleshoot>