

# ■ Kerberos Time Drift Lab

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### ■ Goal:

Simulate a domain login failure due to clock skew.

### ■ Lab Setup:

- Windows Server 2019 (Domain Controller)
- Windows 10 Client joined to domain
- Time drift on client causes authentication to fail

### ■ Failure Scenario:

- Client clock skew > 5 minutes
- Kerberos ticket timestamps rejected
- User cannot log in to domain

### ■ Fix Steps:

- On client: `w32tm /resync` or set correct NTP server
- Confirm with `w32tm /query /status`

### ■ Event Log Clues:

- Event ID 4625 with 0xC0000133 (time difference)
- 0xC000006A if retrying login rapidly

### ■ Questions to Ask:

- How can orgs enforce consistent time across devices?
- What if attackers spoof timestamps?