

Disabling NTLM Authentication Guide – part 7 – Kerberos Logs

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Part 6: [Disabling NTLM Authentication Guide – part 6 – RDP](#)

I forgot to include a post about Kerberos logs to watch, so I'll do that here. Seeing Kerberos authentication logs are useful to know for sure that a service is using Kerberos authentication. This can help you debug when testing with another admin. The logs you want to watch for are generated on domain controllers in the Security log.

Ticket-Granting Tickets – 4768

<https://learn.microsoft.com/en-us/windows/security/threat-protection/auditing/event-4768>

EventID 4768 records when a user account requests a ticket-granting ticket (TGT). TGTs are the first ticket granted when a user starts using Kerberos authentication. This ticket is later used to prove their identity to the KDC and get them service tickets (ST), which are used to authenticate to individual services.

Useful Fields to Watch

- TargetUserName: username that is being authenticated
- IpAddress: IP address the Kerberos auth is coming from, the clients IP
- EventType: Whether the auth succeeds or not

Kerberos Pre-Auth Failed – 4771

<https://learn.microsoft.com/en-us/windows/security/threat-protection/auditing/event-4771>

EventID 4771 tells if a user unsuccessfully requested a TGT (EventID 4768) and goes along with EventID 4768s with EventType AUDIT_FAILURE. Something with the user's initial Kerberos authentication failed. You might want to check out the block post for [Disabling NTLM Authentication Guide – part 3 – Migrating to Kerberos](#)

Useful Fields to Watch

- TargetUserName: username that is being authenticated
- IpAddress: IP address the Kerberos auth is coming from, the clients IP

Service Ticket Was Requested – 4769

<https://learn.microsoft.com/en-us/windows/security/threat-protection/auditing/event-4769>

EventID 4769 tells when a user uses their already granted TGT to try to get a service ticket (ST). Once a user has a ST, they present their ST to a service. The ST's encryption is based off the service account's password, so only the service account can read the ticket's contents. The combination of the TGT and ST encryption ensures that the user and service both authenticate each other; they both know they are talking to the correct person and not an imposter.

These logs are very helpful to see if your authentication attempts are even requesting STs from the KDC, and if they're being granted properly. This can give a lot of clues as to where the errors are, and help identify if an application doesn't support Kerberos in its current configuration, even if you think everything is setup on the AD/KDC side.

Useful Fields to Watch

- ServiceName: The service account running the service you are authenticating to. This can be a normal user account, a computer account, or an AD group managed service account
- TargetUserName: username that is being authenticated
- IpAddress: IP address the Kerberos auth is coming from, the clients IP
- EventType: Whether the auth succeeds or not

Part 1: [Disabling NTLM Authentication Guide – part 1 – Prerequisites](#)

Part 2: [Disabling NTLM Authentication Guide – part 2 – Logs](#)

Part 3: [Disabling NTLM Authentication Guide – part 3 – Migrating to Kerberos](#)

Part 4: [Disabling NTLM Authentication Guide – part 4 – NTLM Restrictions and Testing](#)

Part 5: [Disabling NTLM Authentication Guide – part 5 – Printers and Scanners](#)

Part 6: [Disabling NTLM Authentication Guide – part 6 – RDP](#)

Part 7: [Disabling NTLM Authentication Guide – part 7 – Kerberos Logs](#)