## How can I find out the last time a user logged on from C++?



devblogs.microsoft.com/oldnewthing/20230622-00

June 22, 2023



Raymond Chen

The PowerShell Get-LocalUser cmdlet gives you information about a local user, including the last logon time.

PS> Get-LocalUser Fred | Format-List

AccountExpires Description Enabled : True

FullName

PasswordChangeableDate: 04/02/2023 2:25:04 PM

PasswordExpires

UserMayChangePassword : True PasswordRequired : False

: 04/01/2023 2:25:04 PM PasswordLastSet LastLogon : 04/01/2023 2:28:41 PM

Name

SID : S-1-5-21-162119347-98882960-612995125-1001

PrincipalSource : Local ObjectClass : User

How can you get this information from C++?

For historical reasons, commands for operating with local users are in the LAN Manager API family. That's because MS-DOS was a single-user operating system, so the only time you had to worry about "users" was if you were operating over the network.

This is also why a bunch of user management operations are handled by NET. EXE. The NET. EXE program was the part of LAN Manager that gave you access to all the network magic stuff.

## C:\> NET USER Fred

User name Fred

Full Name Comment

User's comment

Country/region code 000 (System Default)

Account active Yes
Account expires Never

Password last set 04/01/2023 2:25:04 PM

Password expires Never

Password changeable 04/02/2023 2:25:04 PM

Password required No User may change password Yes

Workstations allowed All

Logon script User profile Home directory

Last logon 04/01/2023 2:28:41 PM

Logon hours allowed All

Local Group Memberships \*Administrators

Global Group memberships \*None
The command completed successfully.

The native function for getting this information is NetUserGetInfo. In particular, asking for information level 2 gives you a USER\_INFO\_2 structure which contains, among other things, usri2\_last\_logon.

<u>The documentation</u> includes a sample program showing how to request various levels of information and then print the results, so I won't bother repeating it here.