

Windows MAC Addresses

Goal: Find MAC Addresses in Microsoft Windows.

Here are some techniques for finding MAC addresses on Microsoft Windows using the Control Panel and the command line.



- 1. Find the MAC Address of the Windows PC. There are two methods you can use:
 - A. Method 1: use the Control Panel
 - A. Click Start, Run, control, [enter]

	Kuli	
	Type the name of a program, folder, doo resource, and Windows will open it for y	ument, or Internet ou.
Open:	control	

B. Search and select Network Status and Devices



C. We click on our device, Ethernet 3:



D. Click Details...

	Ethernet 3	Status
General		
Connection -		
IPv4 Connect	ivity:	No Internet access
IPv6 Connect	ivity:	No Internet access
Media State:		Enabled
Duration:		00:25:29
Speed:		1.0 Gbp
Details		
Activity		
Activity	Sent —	Received
Activity	Sent — 13,339	
Activity Bytes:	Sent — 13,339 🚱 Disable	Received 15,24 Diagnose

E. Details will show the MAC address (physical address):

Network	Connection Details
Network Connection Details:	
Property	Value
Connection-specific DN	
Description	Intel(R) PRO/1000 MT Network Connecti
Physical Address	08-00-27-C4-4E-4F
DHCP Enabled	No 💦
IPv4 Address	10.26.0.10
IPv4 Subnet Mask	255.255.255.0
IPv4 Default Gateway	
IPv4 DNS Server	
IPv4 WINS Server	
NetBIOS over Tcpip En	Yes
Link-local IPv6 Address IPv6 Default Gateway	fe80::99cd:62dc:450d:d8a2%17
IPv6 DNS Servers	fec0:0:0:ffff::1%1
	fec0:0:0:ffff::2%1
	fec0:0:0:ffff::3%1
<	>
	Close

- F. (Suggested) Set the IP address if you have not already. For more information see Finding Windows IP Address
- B. Method 2: use the DOS command-line. You want to correlate the IP address and MAC address of the Windows ethernet port:
 - A. Click Start, Run, and type cmd, and press [Enter]

e	Run	×
	Type the name of a program, folder, doo resource, and Windows will open it for y	cument, or Internet
Open:	cina	•
	OK Cancel	Browse

B. Show interfaces by name with the command: netsh interface ipv4 show addresses

C4.	C:\Windows\sys	tem32\cmd.exe – 🗆 💌	
C:\Users\IEUser>netsh interf	face ipv4 show	addresses	1
Configuration for interface DHCP enabled: IP Address: Subnet Prefix: InterfaceMetric:	"Ethernet 4"	Yes 169.254.3.216 169.254.0.0/16 (mask 255.255.0.0) 10	
Configuration for interface DHCP enabled: IP Address: Subnet Prefix: InterfaceMetric:	"Ethernet 3"	No 10.26.0.10 10.26.0.0/24 (mask 255.255.255.0) 10	1
Configuration for interface DHCP enabled: IP Address: Subnet Prefix: Default Gateway: Gateway Metric: InterfaceMetric:	"Ethernet 2"	Yes 192.168.100.135 192.168.100.0/24 (mask 255.255.255.0) 192.168.100.1 0 10	
Configuration for interface DHCP enabled: IP Address: Subnet Prefix: Default Gateway: Gateway Metric: InterfaceMetric:	"Ethernet"	Yes 10.0.2.15 10.0.2.0/24 (mask 255.255.255.0) 10.0.2.2 0 10	
Configuration for interface DHCP enabled: IP Address: Subnet Prefix: InterfaceMetric:	"Loopback Pse	udo-Interface 1" No 127.0.0.1 127.0.0.0/8 (mask 255.0.0.0) 50	
C:\Users\IEUser>		~	

C. (Optional) if you do not see results, you might need to start the network autodiscovery service: net start dot3svc

\$ ne	et star	't dot3svc					
The	Wired	AutoConfia	service	is	starting.		
The	Wired	AutoConfig	service	was	s started	successful	1v.

D. (Optional) Depending on the edition of Windows, the command **netsh lan show interfaces** will display mac addresses.

\$ netsh lan show inte	erfaces
There are 4 interface	es on the system:
Name	: Ethernet 3
Description	: Intel(R) PRO/1000 MT Network Connection #2
GUID	: a3ac1715-8740-4b8f-8022-fec68d9bbd6e
Physical Address	: 08-00-27-C4-4E-4F
State	: Connected. Network does not support authentication.
Name	: Ethernet 2
Description	: Intel(R) PR0/1000 MT Network Connection
GUID	: 6358aef5-ff9f-445c-81db-9bec6c0d477a
Physical Address	: 08-00-27-3A-3C-FB
State	: Connected. Network does not support authentication.
Name	: Ethernet
Description	: Intel(R) PRO/1000 MT Desktop Adapter
GUID	: f0c1f253-3499-4d73-88f5-1ff2687633d1
Physical Address	: 08-00-27-12-89-E9
State	: Connected. Network does not support authentication.
Name	: Ethernet 4
Description	: Intel(R) PRO/1000 MT Network Connection #3
GUID	: 4ccf6f8e-c1ee-44af-b0ef-2dc36c1d8a07
Physical Address	: 08-00-27-AC-4C-4A
State	: Connected. Network does not support authentication.

E. Show mac addresses with: getmac /v /fo csv

(The CSV formatted command of the command ensures that we will see the entire name of the interface which can be trimmed short in the default output format.)

C:\Windows\system32\cmd.exe		×
C:\Users\IEUser>getmac /v		^
Connection Name Network Adapter Physical Address Transport Name		
	========	
Ethernet Intel(R) PRO/10 08-00-27-12-89-E9 \Device\Tcpip_{F0 -4D73-88F5-1FF2687633D1}	C1F253-34	499
Ethernet 2	58AEF5-FI	F9F
Ethernet 3 Intel(R) PRO/10 08-00-27-C4-4E-4F \Device\Tcpip_{A3 -4B8F-8022-FEC68D9BBD6E>	AC1715-87	740
Ethernet 4 Intel(R) PRO/10 08-00-27-AC-4C-4A \Device\Tcpip_{40 -44AF-B0EF-2DC36C1D8A07>	CF6F8E-C1	I EE
C:\Users\IEUser>		~

F. These commands will make it easier to copy using notepad: netsh interface ipv4 addresses > ifnotes.txt getmac /v /fo csv >>ifnotes.txt notepad ifnotes.txt

64 .	C:\Windows\system32\cmd.exe	-	×
C:\Users\IEUser>netsh in	nterface ipv4 show addresses > ifnotes.txt		^
C:\Users\IEUser>getmac /	/v /fo csv >> ifnotes.txt		
C:\Users\IEUser>notepad	ifnotes.txt		
C:\Users\IEUser>_			

G. Now you can easily copy the values:

	ifnotes - Notepad 🚽 🗖	×
File Edit Format View Help		
Configuration for interface "Ethernet 4" DHCP enabled: IP Address: Subnet Prefix: InterfaceMetric:	Yes 169.254.3.216 169.254.0.0/16 (mask 255.255.0.0) 10	^
Configuration for interface "Ethernet 3" DHCP enabled: IP Address: Subnet Prefix: InterfaceMetric:	No 10.26.0.10 10.26.0.0/24 (mask 255.255.0) 10	
Configuration for interface "Ethernet 2" DHCP enabled: IP Address: Subnet Prefix: Default Gateway: Gateway Metric: InterfaceMetric:	Yes 192.168.100.135 192.168.100.0/24 (mask 255.255.2) 192.168.100.1 0	
Configuration for interface "Ethernet" DHCP enabled: IP Address: Subnet Prefix: Default Gateway: Gateway Metric: InterfaceMetric:	Yes 10.0.2.15 10.0.2.0/24 (mask 255.255.25) 10.0.2.2 0 10	
Configuration for interface "Loopback Pse DHCP enabled: IP Address: Subnet Prefix: InterfaceMetric: "Connection Name","Network Adapter","Phys "Ethernet","Intel(R) PRO/1000 MT Networ "Ethernet 2","Intel(R) PRO/1000 MT Networ "Ethernet 4","Intel(R) PRO/1000 MT Networ	udo-Interface 1" No 127.00.01 127.00.0/8 (mask 255.00.0) 50 ical Address","Transport Name" Adapter","08-00-27-12-89-E9","\Device\Tcpip_{F0C1F253-3499-4D73-88F5-1FF2687633D1)" k Connection","080-00-27-3A-3C-FB","\Device\Tcpip_46358AEF5-FF9F-445C-810B-9BEGC60D477A)" k Connection #2","(98-00-27-AC-24F","\Device\Tcpip_43C1715-8740-48BF-8022-FFC6809BDB06 k Connection #3","08-00-27-AC-4C-4C-4A","\Device\Tcpip_44CCF6F8E-C1EE-44AF-80EF-2DC36C1D8A0	E}" 7}"
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