

Windows commands

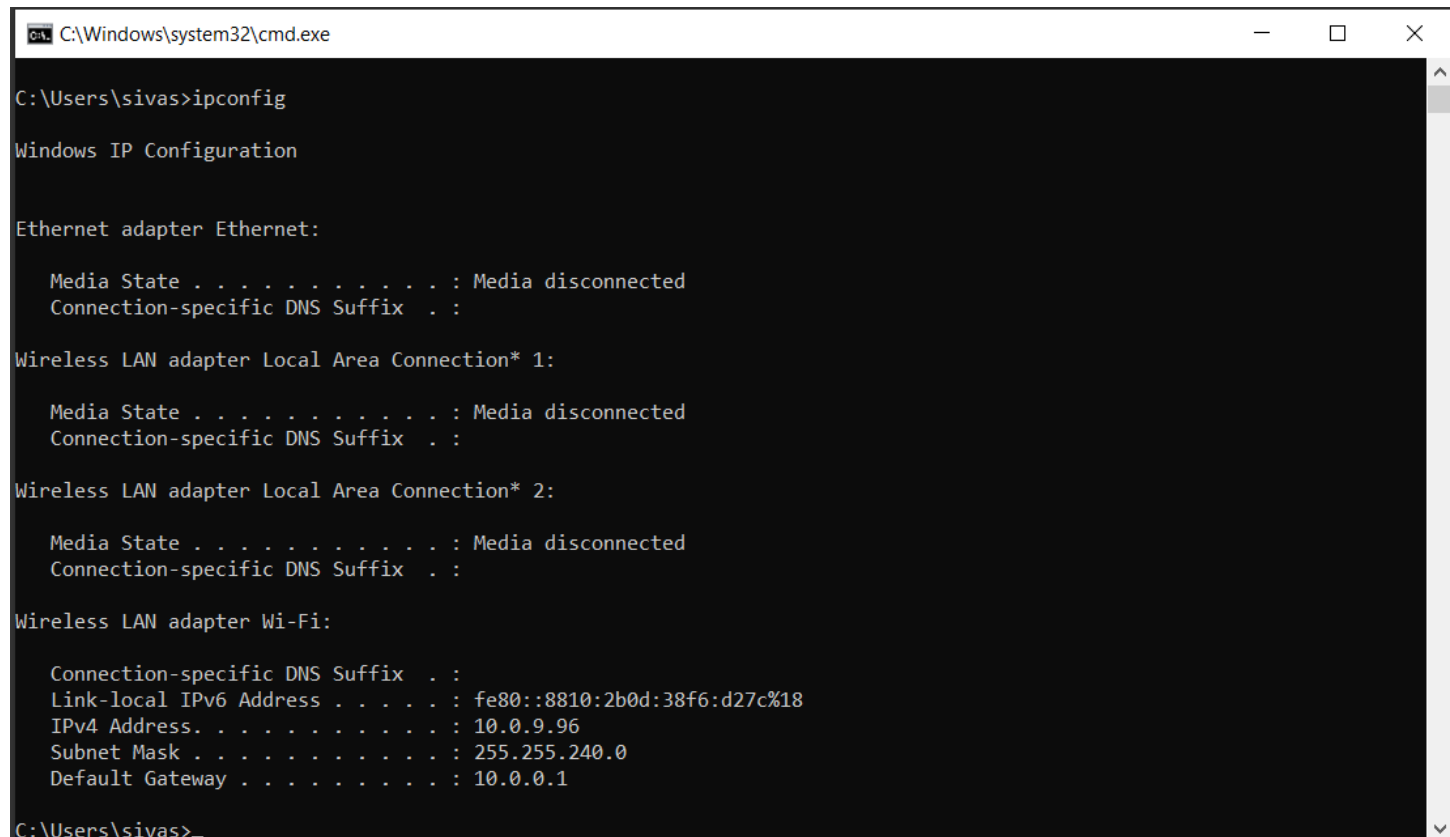
1. Ipconfig

Syntax: ipconfig

Function: cmd to show the NIC ip config and basic details.

More details: [Refer Microsoft Learn](#)

Example:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.exe'. The command prompt shows the user 'C:\Users\sivas>' typing 'ipconfig'. The output displays 'Windows IP Configuration' followed by details for three network adapters: Ethernet adapter Ethernet (Media State: Media disconnected), Wireless LAN adapter Local Area Connection* 1 (Media State: Media disconnected), and Wireless LAN adapter Local Area Connection* 2 (Media State: Media disconnected). Below these, it shows details for the 'Wireless LAN adapter Wi-Fi', including its Connection-specific DNS Suffix, Link-local IPv6 Address (fe80::8810:2b0d:38f6:d27c%18), IPv4 Address (10.0.9.96), Subnet Mask (255.255.240.0), and Default Gateway (10.0.0.1). The prompt ends with 'C:\Users\sivas>'.

1.1 ipconfig /all

Syntax: ipconfig /all

Function: cmd to show the all NIC details.

1.2 ipconfig /flushdns

Syntax: ipconfig /flushdns

Function: cmd to clear the DNS cache.

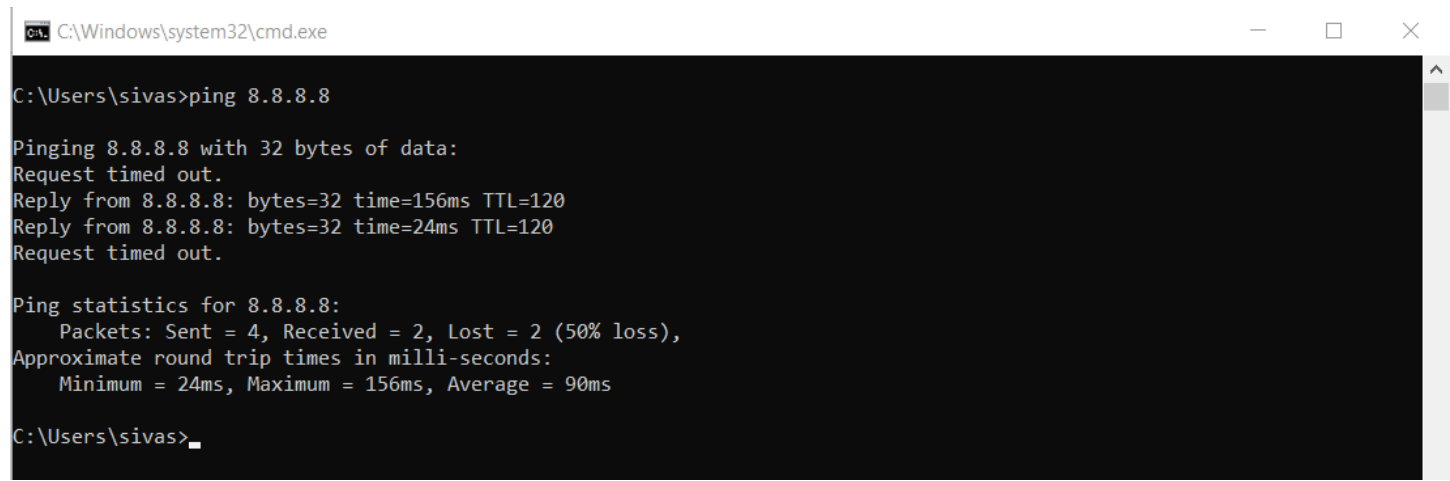
2. Ping

Syntax: ping [ip address]

Function: cmd to check whether the destination computer is reachable or not.

More details: [Refer Microsoft Learn](#)

Example:



```
C:\Windows\system32\cmd.exe

C:\Users\sivas>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Request timed out.
Reply from 8.8.8.8: bytes=32 time=156ms TTL=120
Reply from 8.8.8.8: bytes=32 time=24ms TTL=120
Request timed out.

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 24ms, Maximum = 156ms, Average = 90ms

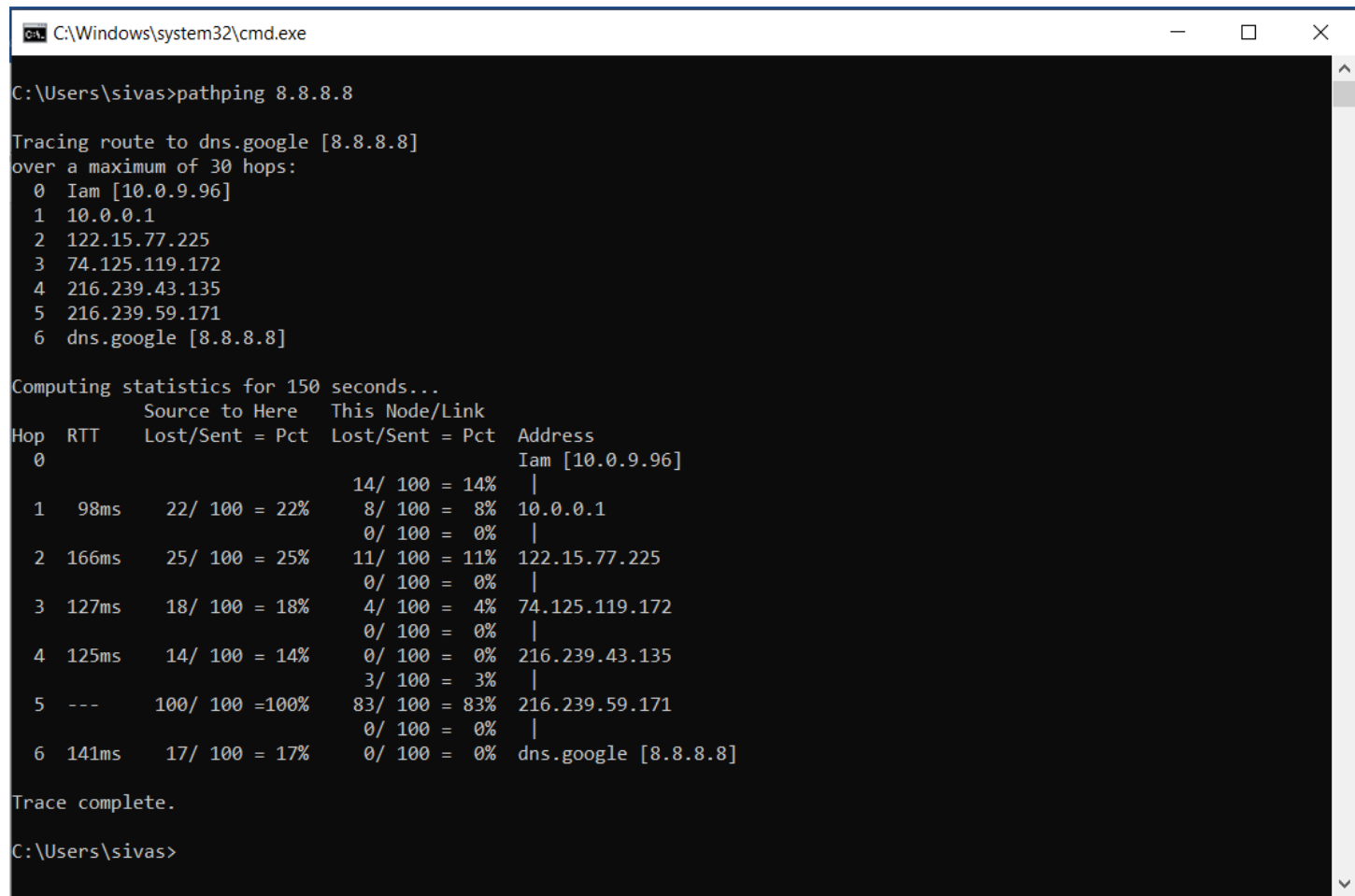
C:\Users\sivas>
```

3. Path ping

Syntax: pathping [ip address]

Function: cmd to check the packet loss and no of hops between source and destination.

More details: [Refer Microsoft Learn](#)

Example:


```

C:\Windows\system32\cmd.exe

C:\Users\sivas>pathping 8.8.8.8

Tracing route to dns.google [8.8.8.8]
over a maximum of 30 hops:
  0  Iam [10.0.9.96]
  1  10.0.0.1
  2  122.15.77.225
  3  74.125.119.172
  4  216.239.43.135
  5  216.239.59.171
  6  dns.google [8.8.8.8]

Computing statistics for 150 seconds...
Hop  RTT      Source to Here   This Node/Link   Address
     Lost/Sent = Pct Lost/Sent = Pct
  0                                     Iam [10.0.9.96]
  1   98ms    22/ 100 = 22%    8/ 100 = 8%     10.0.0.1
  2  166ms    25/ 100 = 25%   11/ 100 = 11%   122.15.77.225
  3  127ms    18/ 100 = 18%    4/ 100 = 4%    74.125.119.172
  4  125ms    14/ 100 = 14%    0/ 100 = 0%    216.239.43.135
  5   ---    100/ 100 =100%   83/ 100 = 83%   216.239.59.171
  6  141ms    17/ 100 = 17%    0/ 100 = 0%    dns.google [8.8.8.8]

Trace complete.

C:\Users\sivas>

```

4. Tracert**Syntax:** `tracert [ip address]`**Function:** cmd to check the hops and no of router between source and destination.**More details:** [Refer Microsoft Learn](#)**Example:**

```

C:\Windows\system32\cmd.exe

C:\Users\sivas>tracert 8.8.8.8

Tracing route to dns.google [8.8.8.8]
over a maximum of 30 hops:

  0  158 ms    4 ms     5 ms    10.0.0.1
  1  47 ms     347 ms   138 ms   122.15.77.225
  2  38 ms      *        *        74.125.119.172
  3  94 ms     158 ms   29 ms    216.239.43.135
  4  33 ms     34 ms    59 ms    216.239.59.171
  5  245 ms    357 ms   *        dns.google [8.8.8.8]
  6  141 ms    *        *        dns.google [8.8.8.8]
  7   *       *        74 ms    dns.google [8.8.8.8]

Trace complete.

C:\Users\sivas>

```

5. Nslookup

Syntax: nslookup

Syntax: nslookup [domain name]

Function: cmd to resolve the dns name to ip.

More details: [Refer Microsoft Learn](#)

Example:

```

C:\Windows\system32\cmd.exe - nslookup

C:\Users\sivas>nslookup
Default Server:  dns.google
Address:  8.8.8.8

> google.com
Server:  dns.google
Address:  8.8.8.8

DNS request timed out.
  timeout was 2 seconds.
Name:    google.com
Address:  2404:6800:4007:804::200e

>

```

6. Wifi Qrcode generator

Syntax: new-qrcodewifiaccess -SSID "111" -Password "12345678" -outpath "C:/wifi.png"

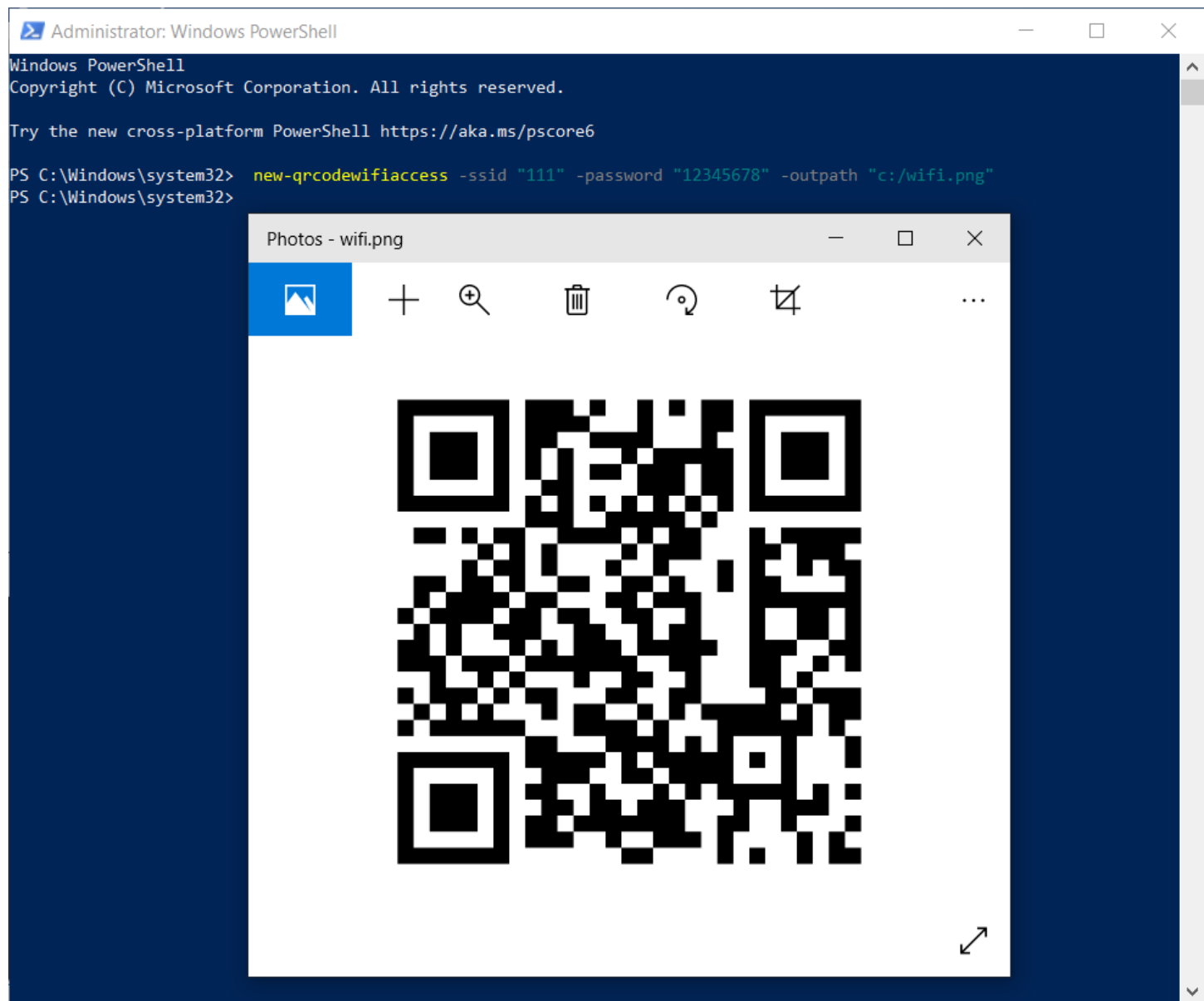
Function: cmd to genetrate wifi qrcode in powershell

Installation cmds: Install-Module -Name QRCodeGenerator

Import-Module QRCodeGenerator

More details: [Refer Generate QR Code with PowerShell in Windows 10](#)

Example:



7. Attrib Command

Syntax: attrib "folder_name" +s +h +r

Function: folder is hidden and isn't visible when we select to show all files and folders.

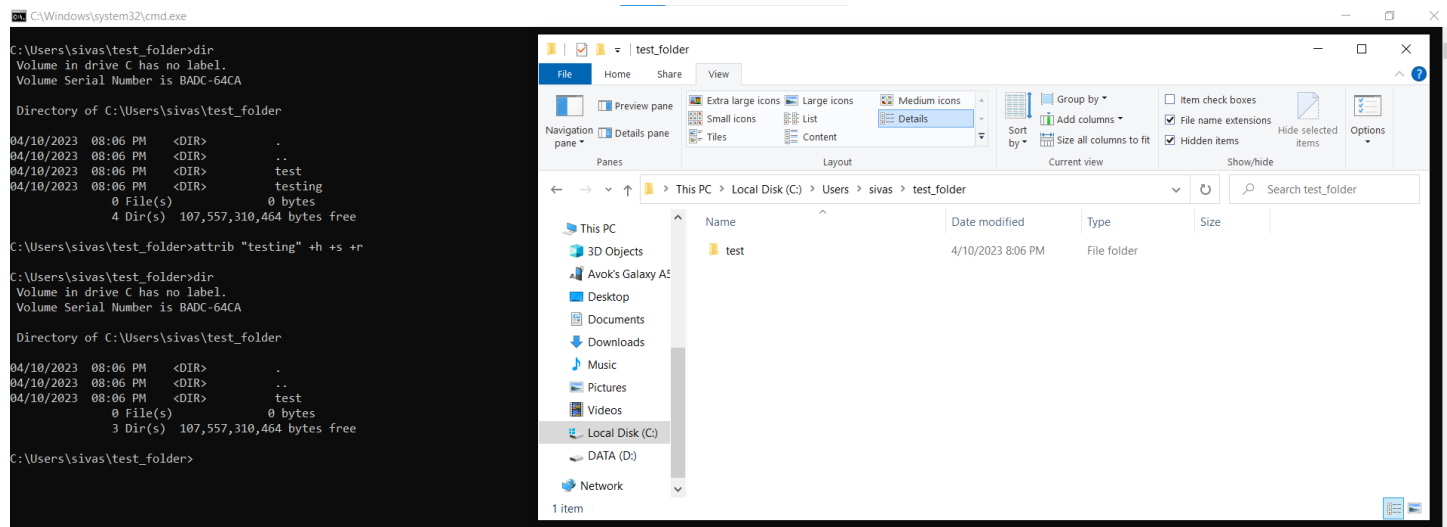
- s System
- h Hidden
- r Read-only

Syntax: attrib "folder_name" -s -h -r

Function: folder is visible when we select to show all files and folders.

More details: [Refer www.c-sharpcorner.com](http://www.c-sharpcorner.com)

Example:



8. Title

Syntax: title [string]

Function: To change the Command Prompt title.

More details: [Refer Microsoft Learn](https://learn.microsoft.com/en-us/windows/terminal/using-title-bars)

Example:



9. Prompt

Syntax: prompt [text]

Function: To change executing path name in command prompt.

More details: [Refer Microsoft Learn](https://learn.microsoft.com/en-us/windows/terminal/using-title-bars)

Example:

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sivas>prompt SIVA

SIVAecho "hi"
"hi"

SIVA
```

10. Netsh

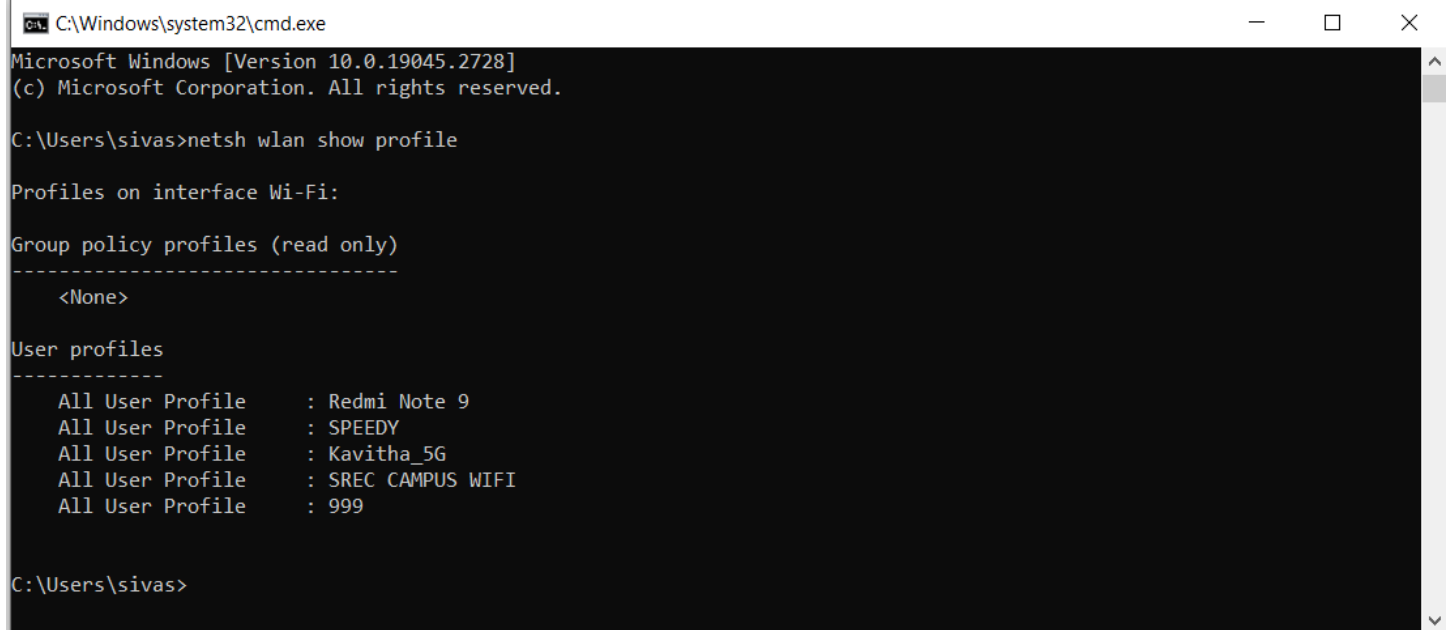
Syntax: netsh wlan show profile

Function: To show a list of network names that we already connect to.

Syntax: netsh wlan show profile name= "Wi-Fi name" key=clear

Function: To show the password of the given wi-fi name

More details: [Refer Microsoft Learn](#)

Example:

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sivas>netsh wlan show profile

Profiles on interface Wi-Fi:

Group policy profiles (read only)
-----
    <None>

User profiles
-----
    All User Profile      : Redmi Note 9
    All User Profile      : SPEEDY
    All User Profile      : Kavitha_5G
    All User Profile      : SREC CAMPUS WIFI
    All User Profile      : 999

C:\Users\sivas>
```

```
C:\Windows\system32\cmd.exe

C:\Users\sivas>netsh wlan show profile "999" key=clear

Profile 999 on interface Wi-Fi:
=====

Applied: All User Profile

Profile information
-----
Version           : 1
Type              : Wireless LAN
Name              : 999
Control options   :
    Connection mode : Connect automatically
    Network broadcast : Connect only if this network is broadcasting
    AutoSwitch      : Do not switch to other networks
    MAC Randomization : Enabled

Connectivity settings
-----
Number of SSIDs    : 1
SSID name         : "999"
Network type      : Infrastructure
Radio type        : [ Any Radio Type ]
Vendor extension   : Not present

Security settings
-----
Authentication    : WPA2-Personal
Cipher            : CCMP
Authentication    : WPA2-Personal
Cipher            : GCMP
Security key      : Present
Key Content       : 12345678

Cost settings
-----
Cost              : Fixed
Congested         : No
Approaching Data Limit : No
Over Data Limit   : No
Roaming           : No
Cost Source       : Operator

C:\Users\sivas>
```

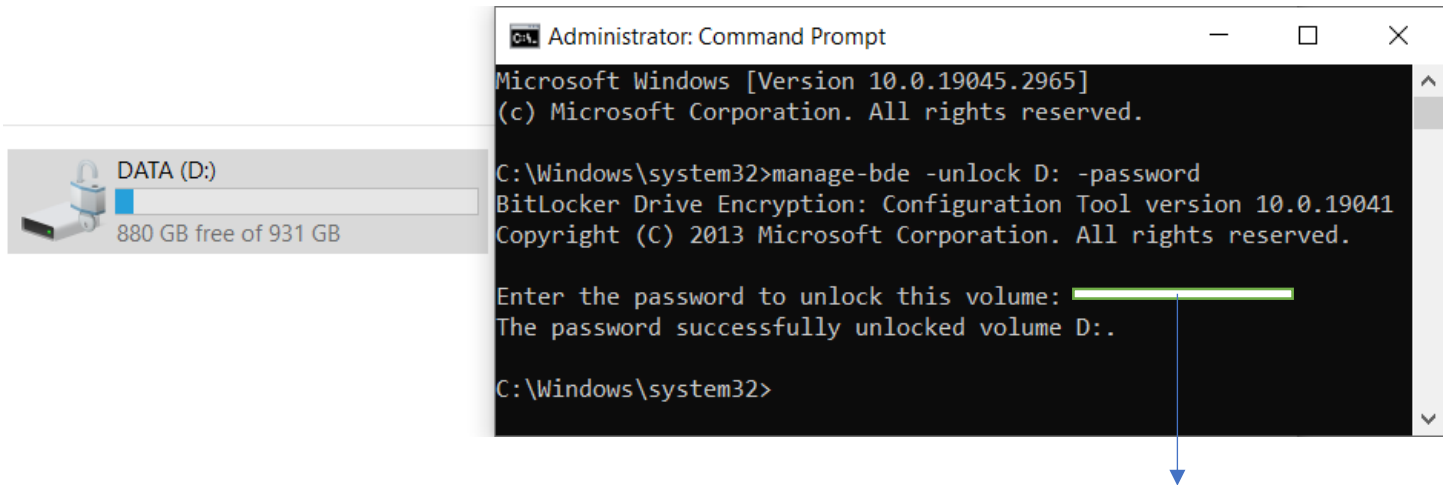

11. Manage-bde

Syntax: `Manage-bde -unlock [drive letter]: -password`

Function: run command prompt in Admin mode to unlock the bitlocker drive.

More details: [Refer Microsoft Learn](#)

Example:



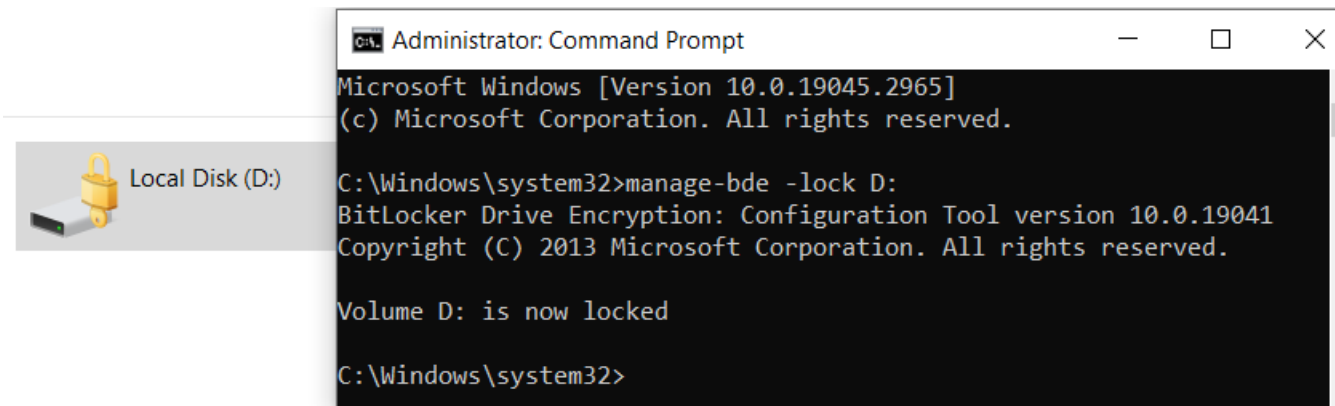
Here enter the password of Bitlocker dirve.

Syntax: `Manage-bde -lock [drive letter]:`

Function: run command prompt in Admin mode to lock the bitlocker drive. If any application or file is opened in that drive location it will not lock.

More details: [Refer Microsoft Learn](#)

Example:




Syntax: `Manage-bde -lock [drive letter]: -forcedismount`

Function: run command prompt in Admin mode to lock the bitlocker drive. If any application or file is opened in that drive location then also it will lock the drive.

More details: [Refer Microsoft Learn](#)

Example:



Local Disk (D:)

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>manage-bde -lock D: -forcedismount
BitLocker Drive Encryption: Configuration Tool version 10.0.19041
Copyright (C) 2013 Microsoft Corporation. All rights reserved.

Volume D: is now locked

C:\Windows\system32>
```