

Windows 11 ?? IP-Guard ????

Microsoft Edge???

Windows 11 IP-Guard Microsoft Edge

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1. IP-Guard ??????????????????????

IP-Guard

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-

Browser Extension
DLL Injection
Kernel Driver

Windows 11 Edge Chromium IP-Guard

Edge
Edge
Edge
Edge

2. Edge GPU????

■■■■■■■■■■

```
Intel UHD  
NVIDIA  
AMD
```

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■■■■■■■■■■

```
Application Error
```

```
msedge.exe
```

```
d3d11.dll
```

```
igd10iumd64.dll
```

```
nvwgf2umx.dll
```

3. WebView2??????

Edge ■■■■■■■■■■

Microsoft Edge WebView2 Runtime

IP-Guard■■■■■■■■■■

```
WebView2■■■
```

```
Edge■■■
```

```
Outlook■■■
```

```
Teams■■■
```

4. DLL?????

■■■

```
tasklist /m | findstr ipg
```

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ipg*.dll

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msedge.exe

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□□ DLL □ Edge □□□□□□□□□□□□□□

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eventvwr.msc

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Windows□□

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□□
Application Error

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□□□□□□□□:
msedge.exe

□□□□□□□□:
xxxx.dll

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```
ipgmon.dll
ipgflt.dll
ipgbrowser.dll
```

□□□□□ IP-Guard□□□

??2???????

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```
perfmon /rel
```

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```
Microsoft Edge
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```

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?????????IP-Guard??

□□ CMD□

```
taskkill /f /im ipg*.exe
```

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```
services.msc
```

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```
IP-Guard
IPG Agent
IPG Monitor
```

□□□□ Edge□

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IP-Guard

Edge??

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```
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  L ☐☐  
    L ☐☐☐☐  
      L Microsoft Edge
```

☐☐☐

☐☐
Repair

☐☐☐☐☐

```
"C:\Program Files (x86)\Microsoft\Edge\Application\Installer\setup.exe" --repair
```

???????

☐☐ Edge☐

```
taskkill /f /im msedge.exe
```

☐☐☐☐☐

```
%LOCALAPPDATA%\Microsoft\Edge\User Data
```

☐☐☐☐

????GPU????

+
Edge 140+

■■■■■■■■

■■■■■■■■

■■Agent
■■■■■■■■
■■■■

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```
Get-WinEvent -LogName Application -MaxEvents 100 |  
Where-Object {$_.LevelDisplayName -eq "Error"} |  
Select-Object TimeCreated,ProviderName,Id,Message
```

■■ Edge ■■■

```
Get-WinEvent -FilterHashtable @{  
  LogName='Application'  
  ProviderName='Application Error'  
} | Select -First 20
```

■■■■■■

```
tasklist /m /fi "imagename eq msedge.exe"
```

■■■■■■■■■■

1. IP-Guard■■■■■■■■ 4.x 5.x 6.x
2. Windows 11■■■ 23H2 24H2■■
3. Edge■■■■ →■■ Microsoft Edge■
4. ■■■■■ msedge.exe ■ "■■■■■"

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- IP-Guard■■■■■■■■

- [] [] [] []
- WebView2 [] []
- GPU [] [] [] []
- Windows 11 [] [] [] [] [] []

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