

FoggyWeb, Software S0661 | MITRE ATT&CK®

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Enterprise [T1071 .001 Application Layer Protocol: Web Protocols](#)

[FoggyWeb](#) has the ability to communicate with C2 servers over HTTP GET/POST requests.^[1]

Enterprise [T1560 .002 Archive Collected Data: Archive via Library](#)

[FoggyWeb](#) can invoke the `Common.Compress` method to compress data with the C# GZipStream compression class.^[1]

[.003 Archive Collected Data: Archive via Custom Method](#)

[FoggyWeb](#) can use a dynamic XOR key and a custom XOR methodology to encode data before exfiltration. Also, [FoggyWeb](#) can encode C2 command output within a legitimate WebP file.^[1]

Enterprise [T1005 Data from Local System](#)

[FoggyWeb](#) can retrieve configuration data from a compromised AD FS server.^[1]

Enterprise [T1140 Deobfuscate/Decode Files or Information](#)

[FoggyWeb](#) can be decrypted in memory using a Lightweight Encryption Algorithm (LEA)-128 key and decoded using a XOR key.^[1]

Enterprise [T1573 .001 Encrypted Channel: Symmetric Cryptography](#)

[FoggyWeb](#) has used a dynamic XOR key and custom XOR methodology for C2 communications.^[1]

Enterprise [T1041 Exfiltration Over C2 Channel](#)

[FoggyWeb](#) can remotely exfiltrate sensitive information from a compromised AD FS server.^[1]

Enterprise [T1083 File and Directory Discovery](#)

[FoggyWeb](#)'s loader can check for the [FoggyWeb](#) backdoor .pri file on a compromised AD FS server.^[1]

Enterprise [T1574 .001 Hijack Execution Flow: DLL](#)

[FoggyWeb](#)'s loader has used DLL Search Order Hijacking to load malicious code instead of the legitimate `version.dll` during the `Microsoft.IdentityServer.ServiceHost.exe` execution process.^[1]

Enterprise [T1105 Ingress Tool Transfer](#)

[FoggyWeb](#) can receive additional malicious components from an actor controlled C2 server and execute them on a compromised AD FS server.^[1]

Enterprise [T1036 Masquerading](#)

[FoggyWeb](#) can masquerade the output of C2 commands as a fake, but legitimately formatted WebP file.^[1]

[.005 Match Legitimate Resource Name or Location](#)

[FoggyWeb](#) can be disguised as a Visual Studio file such as `Windows.Data.TimeZones.zh-PH.pri` to evade detection. Also, [FoggyWeb](#)'s loader can mimic a genuine `dll` file that carries out the same import functions as the legitimate Windows `version.dll` file.^[1]

Enterprise [T1106 Native API](#)

[FoggyWeb](#)'s loader can use API functions to load the [FoggyWeb](#) backdoor into the same Application Domain within which the legitimate AD FS managed code is executed.^[1]

Enterprise [T1040 Network Sniffing](#)

[FoggyWeb](#) can configure custom listeners to passively monitor all incoming HTTP GET and POST requests sent to the AD FS server from the intranet/internet and intercept HTTP requests that match the custom URI patterns defined by the actor.^[1]

Enterprise [T1027 .004 Obfuscated Files or Information: Compile After Delivery](#)

[FoggyWeb](#) can compile and execute source code sent to the compromised AD FS server via a specific HTTP POST.^[1]

[.013 Obfuscated Files or Information: Encrypted/Encoded File](#)

[FoggyWeb](#) has been XOR-encoded.^[1]

Enterprise [T1057 Process Discovery](#)

[FoggyWeb](#)'s loader can enumerate all Common Language Runtimes (CLR) and running Application Domains in the compromised AD FS server's `Microsoft.IdentityServer.ServiceHost.exe` process.^[1]

Enterprise [T1620 Reflective Code Loading](#)

[FoggyWeb](#)'s loader has reflectively loaded .NET-based assembly/payloads into memory.^[1]

Enterprise [T1129 Shared Modules](#)

[FoggyWeb](#)'s loader can call the `load()` function to load the [FoggyWeb](#) dll into an Application Domain on a compromised AD FS server.^[1]

Enterprise [T1552 .004 Unsecured Credentials: Private Keys](#)

[FoggyWeb](#) can retrieve token signing certificates and token decryption certificates from a compromised AD FS server.^[1]

Enterprise [T1550 Use Alternate Authentication Material](#)

[FoggyWeb](#) can allow abuse of a compromised AD FS server's SAML token.^[1]

Source: <https://attack.mitre.org/software/S0661/>