Scanning and Reconnaissance

Chal 1:
Scan the the ports of 172.233.190.199.
The flag is fitsec{(the lowest open tcp port)} in the fashion of fitsec{?d}.
Solve:
$ sudo nmap -sS 172.233.190.199 -p 0-30
fitsec{2}

Chal 2:
Scan the service on port 53 at '172.233.190.199'. What is the service version running on this port?
The flag format is "fitsec{(The version of the service)}"
Solve:
$ sudo nmap -sS 172.233.190.199 -p 53 -sV
fitsec{pi-hole-v2.90+1}

Chal 3:
There is a http service on one of the ports at 172.233.190.199. Can you find the flag in one of its hidden subdirectories?
Solve:
$ sudo nmap -sS 172.233.190.199 -p 0-3000
See two interesting ports that are not commonly used. See what is on 2280.
$ sudo nmap -sS 172.233.190.199 -p 2280 -sV -vv
See there is an apache web server running.
http://172.233.190.199:2280/
Use feroxbuster and enumerate through findings, see the flag is on:
$ feroxbuster -u http://172.233.190.199:2280/ -w
/usr/share/wordlists/dirbuster/directory-list-2.3-small.txt
Flag found at:
http://172.233.190.199:2280/ufos/