

1



```
[recon-ng][Task1] > workspaces create Task1
[recon-ng][Task1] > workspaces list

+-----+-----+-----+
| Workspaces | Modified |
+-----+-----+-----+
| Task1      | 2025-08-29 11:39:18 |
| default    | 2025-08-29 11:30:58 |
+-----+-----+-----+

[recon-ng][Task1] > workspaces load Task1
[*] Invalid workspace name.
[recon-ng][Task1] > workspaces load Task1
[recon-ng][Task1] > help

Commands (type [help]? <topic>):

back          Exits the current context
dashboard     Displays a summary of activity
db            Interfaces with the workspace's database
exit          Exits the framework
help         Displays this menu
index         Creates a module index (dev only)
keys          Manages third party resource credentials
marketplace  Interfaces with the module marketplace
modules       Interfaces with installed modules
options       Manages the current context options
pdb          Starts a Python Debugger session (dev only)
script        Records and executes command scripts
shell         Executes shell commands
show          Shows various framework items
snapshots     Manages workspace snapshots
spool         Spools output to a file
workspaces    Manages workspaces

[recon-ng][Task1] > db
Interfaces with the workspace's database

Usage: db <delete|insert|notes|query|schema> [...]
```

```
[recon-ng][Task1] > workspaces load Task1
[*] Invalid workspace name.
[recon-ng][Task1] > workspaces load Task1
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[recon-ng][Task1] > db
Interfaces with the workspace's database

Usage: db <delete|insert|notes|query|schema> [...]

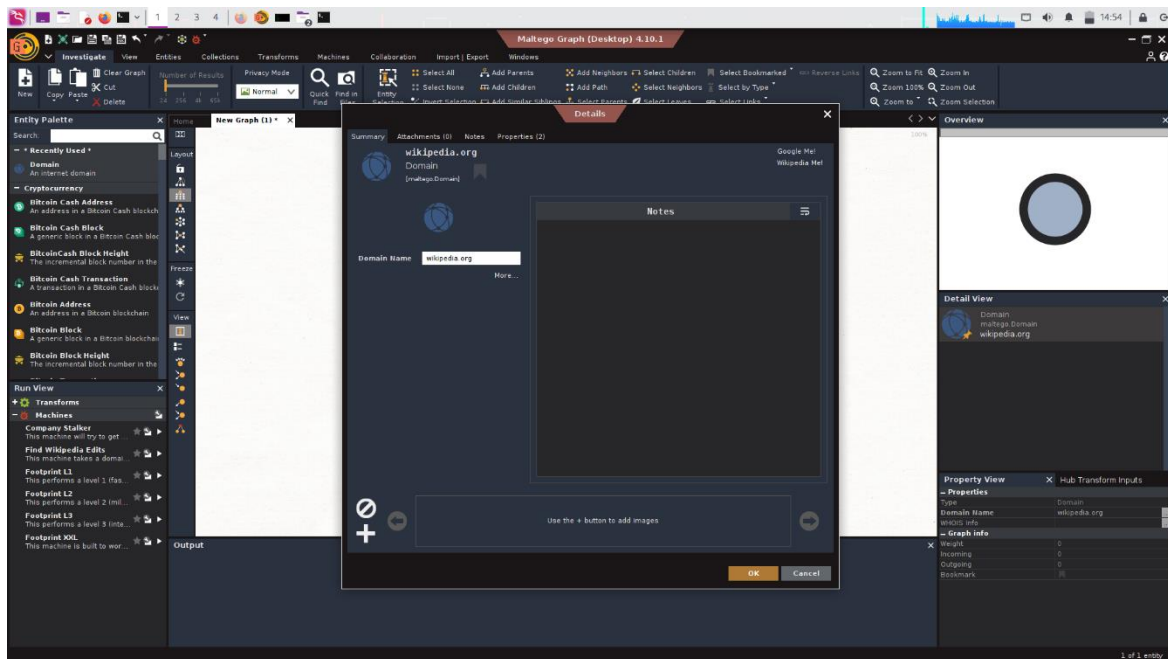
[recon-ng][Task1] > db insert domains
domain (TEXT): wikipedia.org
notes (TEXT):
[*] 1 rows affected.
[recon-ng][Task1] >
```

- Install this module. [ **Command:** *marketplace install recon/domains-hosts/netcraft*].
- Load the module. [ **Command:** *modules load recon/domains-hosts/netcraft*].
- Set the source. [ **Command:** *options set SOURCE wikipedia.org*].
- **Then run.**





- Click *Okay*.



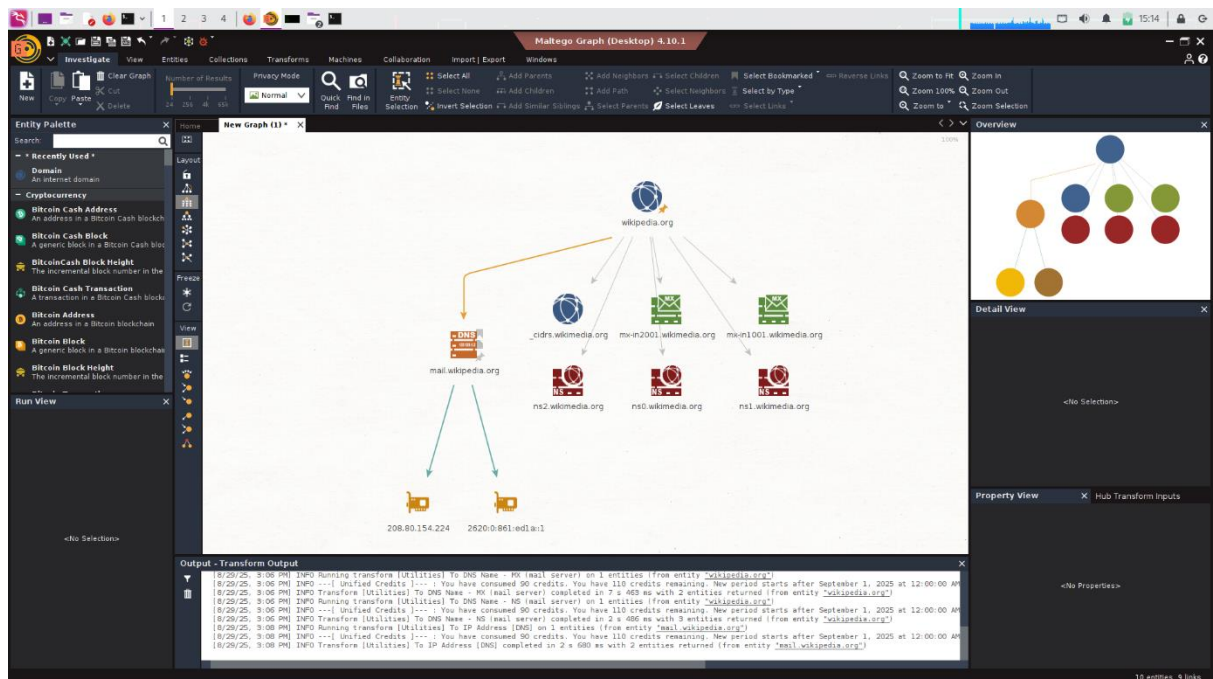
- Right-click on the domain search for *DNS*.
- Select *[Utilities] To DNS Name [Find common DNS names]*.  
*mail, mx, ns, ftp, webmail, web, gateway, secure, intranet, extranet, smtp, pop, ns1, mx1, email, admin, dmz, blog, dns, forum, ntp, pub, route, sql, ssh, webaccess, xml, imap*
- The above, which are highlighted, are the DNS names to test. Click run.
- You can try everything listed here:

- ☐ To DNS Names → finds subdomains.
- ☐ To DNS A Record → resolves IPv4.
- ☐ To DNS AAAA Record → resolves IPv6.
- ☐ To DNS MX Record → finds mail servers.
- ☐ To DNS NS Record → finds nameservers.



➤ Right-click on the DNS Name Entities *example: mail.wikipedia.org*, then click on the *[Utilities] To IP Address [DNS]*.

➤ You can save it into your system by *Ctrl + S*.



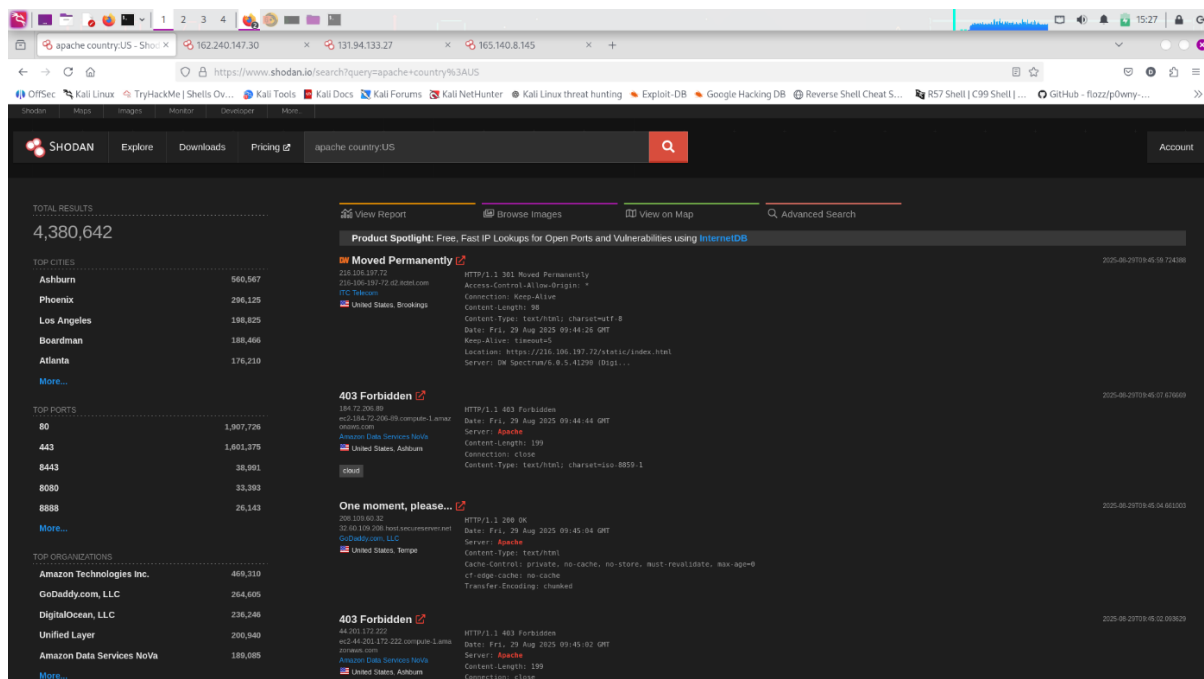




## Shodan

Shodan is a search engine that allows users to search for devices connected to the internet. This website helps to find the vulnerable devices in the network.

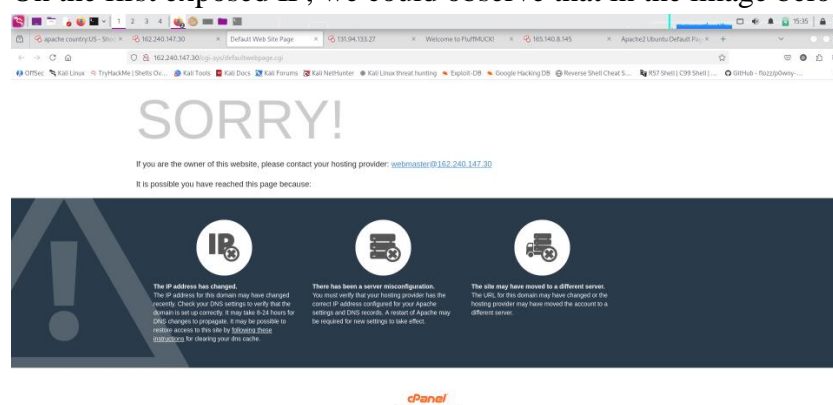
- Create an account in Shodan so that we can use the queries in the search bar.
- I have searched ***apache country:US***



- I have selected 3 exposed hosts from the above search.

✓ 1<sup>st</sup> exposed IP: **162.240.147.30**

On the first exposed IP, we could observe that in the image below:





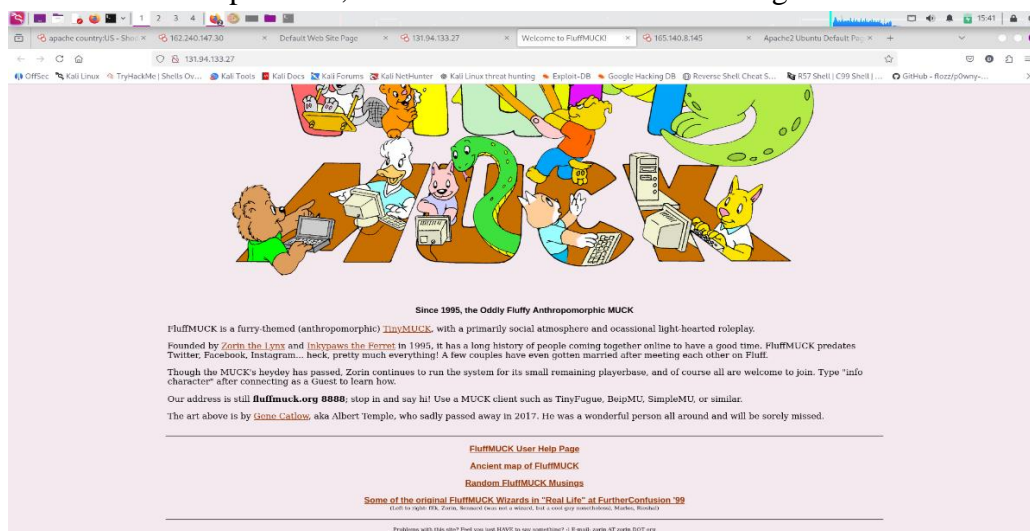
The page is a default page landing page generated by cPanel/Apache when a domain is pointing to the server, but no content (website files) is deployed.

It mentions causes such as:

1. IP address recently changed.
2. The server is misconfigured or has not yet been displayed.
3. Site moved to a different server.

✓ 2<sup>nd</sup> exposed IP: **131.94.133.27**

On the second exposed IP, we could observe that in the image below:



1. The page is for Furry Muck, an old text-based multiplayer game server.
2. The website runs on an Apache web server and hosts a public-facing informational page with links to community history and instructions for connecting.
3. The page also contains some references to Telnet/MUCK servers, which could indicate legacy/unsecured services running in parallel.

✓ 3<sup>rd</sup> exposed IP: **165.140.8.145**

On the second exposed IP, we could observe that in the image below:





1. The page is the default Apache2 index page on Ubuntu after installation.\
2. It confirms the server is running Apache2 correctly, but has not been configured with a real website yet.
3. The page also reveals details about the configuration structure on Ubuntu systems (/etc/apache2/ sites-enabled/, mods-enabled/).

Finally, I could say:

◆ Image 1 – cPanel Default Page

Possible Attack:

- Brute-force / credential stuffing attacks against the cPanel login (if accessible).
  - Attackers often look for exposed cPanel to gain full hosting account access.
- 

◆ Image 2 – Furry MUCK Page (Legacy Game Site)

Possible Attack:

- Exploitation of outdated services (e.g., Apache vulnerabilities or Telnet service exploitation).
  - Could allow remote code execution (RCE) or man-in-the-middle attacks if Telnet is still running (since Telnet sends data in plaintext).
- 

◆ Image 3 – Ubuntu Apache2 Default Page

Possible Attack:

- Information disclosure → targeted exploits.
- Since it reveals Ubuntu + Apache2, attackers can launch version-specific exploits (e.g., CVE-2017-5638 Apache Struts RCE, Apache path traversal, DoS, etc.).