## • 1. Installation of Tools

Most subdomain enumeration tools are written in Go, so first install Go language:
Install Go
```bash
sudo apt update && sudo apt install golang -y
Install Subfinder
Subfinder is from ProjectDiscovery (fast passive subdomain finder).
```bash
go install github.com/projectdiscovery/subfinder/v2/cmd/subfinder@latest
Install Assetfinder
From TomNomNom (uses public sources like crt.sh).
```bash
go install github.com/tomnomnom/assetfinder@latest
Install Alterx
Generates permutations/variations of subdomains.
```bash
go install github.com/projectdiscovery/alterx/cmd/alterx@latest

```bash

echo -e "example.com\ntest.com" > domains.txt

Step 2: Enumerate with Subfinder ```bash subfinder -dL domains.txt -silent -o subfinder.txt `-dL domains.txt`  $\rightarrow$  input list of domains. `-silent` → clean output. `-o subfinder.txt`  $\rightarrow$  save output. Step 3: Enumerate with Assetfinder ```bash for d in \$(cat domains.txt); do assetfinder --subs-only \$d done > assetfinder.txt Runs 'assetfinder' for each domain. `--subs-only` → filters only subdomains. Saves all results into `assetfinder.txt`. Step 4: Generate Alterations with Alterx cat subfinder.txt assetfinder.txt | sort -u | alterx -o alterx.txt

Now you have 'domains.txt' with 2 domains.

| Combines both tools' results.                                             |
|---------------------------------------------------------------------------|
| Removes duplicates ('sort -u').                                           |
| Pipes into `alterx` to generate permutations like:                        |
|                                                                           |
| `dev.example.com`                                                         |
| `test.example.com`                                                        |
| `stage.test.com`                                                          |
| Saves results to `alterx.txt`.                                            |
|                                                                           |
|                                                                           |
|                                                                           |
| Step 5: Merge All Results                                                 |
|                                                                           |
| ```bash                                                                   |
| cat subfinder.txt assetfinder.txt alterx.txt   sort -u > all-subs.txt     |
| ***                                                                       |
|                                                                           |
| Now `all-subs.txt` contains unique subdomains collected from all 3 tools. |
|                                                                           |
|                                                                           |
|                                                                           |
| Step 6 (Optional): Check Live Subdomains                                  |
|                                                                           |
| Using `httpx`:                                                            |
|                                                                           |
| ```bash                                                                   |
| httpx -l all-subs.txt -o alive-subs.txt                                   |
|                                                                           |
|                                                                           |
| Scans the list and finds which subdomains respond with HTTP/HTTPS.        |
| `alive-subs.txt` → only reachable domains.                                |

## 4. Output Files Explanation

```
subfinder.txt → Subdomains from Subfinder.
assetfinder.txt → Subdomains from Assetfinder.
alterx.txt \rightarrow Permutations generated by Alterx.
all-subs.txt \rightarrow Combined unique results.
alive-subs.txt \rightarrow Only live/active subdomains.
 • 5. Automation (Optional Bash Script)
Here's a script ('subenum.sh') to automate everything:
```bash
!/bin/bash
Input file with domains
DOMAINS="domains.txt"
Run Subfinder
subfinder -dL $DOMAINS -silent -o subfinder.txt
Run Assetfinder
> assetfinder.txt
for d in $(cat $DOMAINS); do
  assetfinder -- subs-only $d >> assetfinder.txt
done
Run Alterx on combined results
cat subfinder.txt assetfinder.txt | sort -u | alterx -o alterx.txt
Merge all
```

cat subfinder.txt assetfinder.txt alterx.txt | sort -u > all-subs.txt

Results:

