

# 3. Module Information Gathering

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Recommended to use a map to save and overview the results.

## Gathering information about the target

-> `Whois tool` or `whois.domaintools.com` -> to get infos about the target

-> `nslookup $hostname` -> tools to translate hostname to ip

-> `nslookup -type=PTR $ip` -> translate ip to hostname

-> `nslookup -querytype=ANY $hostname` -> to query the DNS server for the whole record associated to hostname

## Target ISP's

-> to find target ISP's (these information should be in the report, because it's useful to map the attack surface)

1. We use **\*\*nslookup\*\*** to get the ip's of the domain and subdomains if needed: `nslookup $hostname`
2. We use `arin.net` / `whois.domaintools.com` / `ripe.net` to uncover the target ISP's  
another easy way is to use: `netcraft.com` -> to show the target ip and its ISP.

## Infrastructure

Discovering what **kind of web server** of the **version of the web server** will be a hint about the Target OS.

- IIS version 6.0 is by default on windows server 2003
- IIS version 7.0 supports on windows server 2008
- IIS version 8.0 supports on windows server 2012

These hints are 90% right.

## Fingerprinting the Webserver

`netcat` / `httpprint` / `whatweb` / `wappalyzer` / `netcraft.com` / `BuiltWith`

-> Cookie: (language the website uses)

- PHP - PHPSESSID=XXXX
- .NET - ASPSESSIONID=XXXX

- JAVA - JSESSION=XXXX

## Enumerating Subdomains

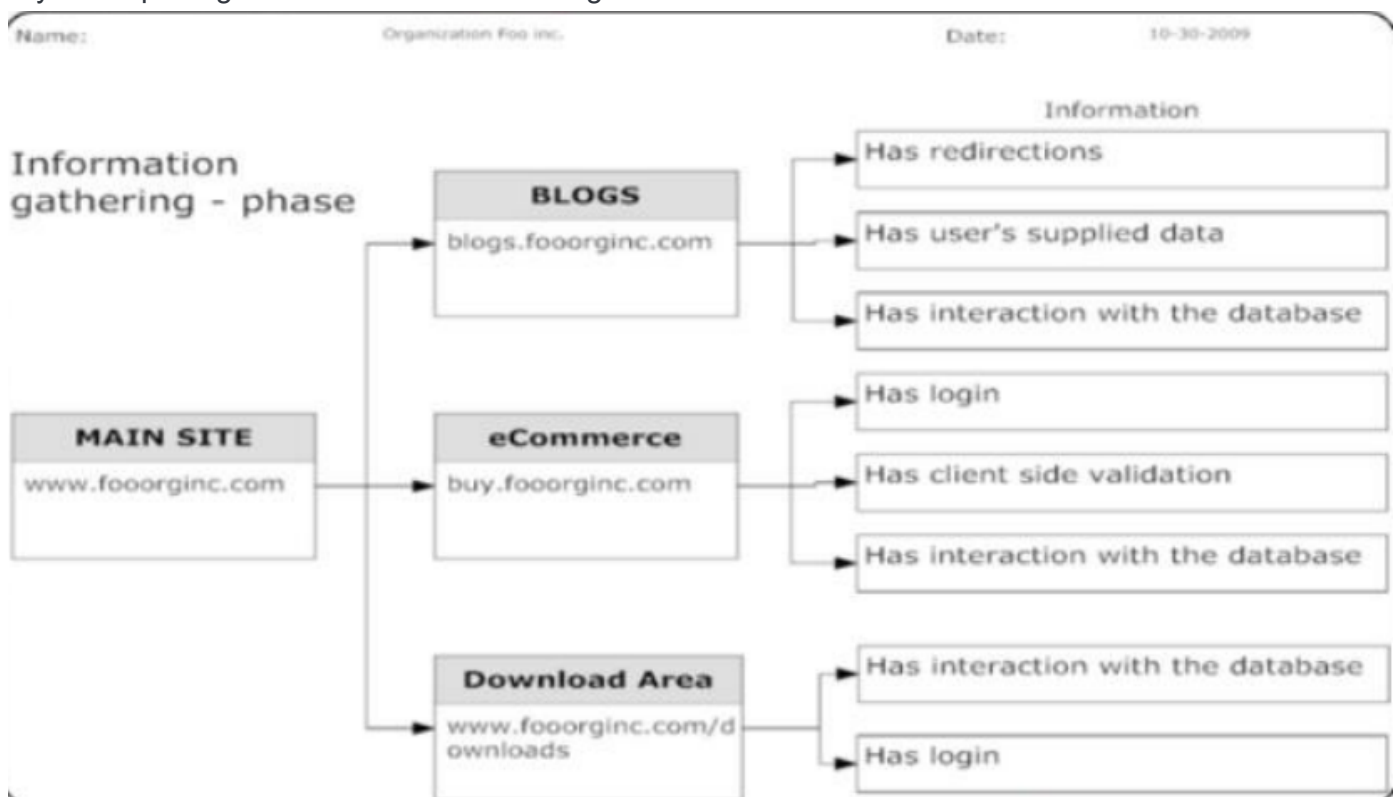
- google: `site:.target.com -inurl:www. -site:www.target.com`
- sublist3r
- dnsrecon: `dnsrecon -d $target`
- subbrute: `subbrute -h -s subs.txt $target`
- fierce: `fierce -dns $target` -> to get the Virtual Hosts
- knock
- theharvester: `theharvester -d $target -l 200`
- Zone Transfer:
  - > on windows:
    - `nslookup -type=NS $target` -> to get the Name server of the target domain.
    - `nslookup -> server "NS of the target" -> ls -d $target`
  - > on linux:
    - `nslookup -type=NS $target`
    - `dig @NS_of_target axfr $target`

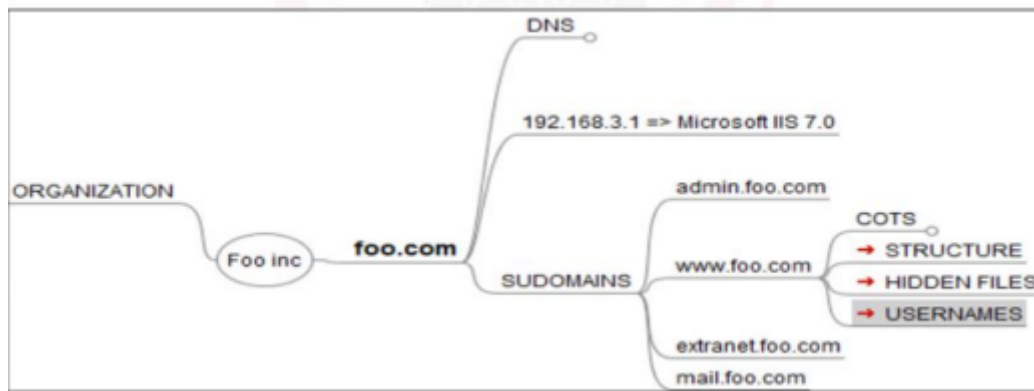
## Fingerprinting Frameworks and applications

`buildwith`, `source-code`, `wappalyzer`, `read headers`

**Custom:** Browse the website run burpsuite in the background, spider the host.

Try to keep the gathered information well organized:





## Enumerating Resources:

To find subdomains, website structure, hidden files, configuration files, and any leaked because of misconfiguration

**Tools:** Burpsuite, dirsearch, ffuf

A good list of back up files extension follows:

- bak
- bac
- old
- 000
- ~
- 01
- \_bak
- 001
- inc
- Xxx

## Google Hacking:

- "index of" bak
- intitle:"Apache HTTP Server" intitle:"documentation" site:target.com
- filetype:"bak" or filetype:"inc"
- intitle:login - to try SQLi

## Shodan