

### Certificate Transparency logs - search engines

<https://crt.sh/>

### Certificate Transparency logs - search engines (cont)

<https://censys.io/>

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### Certificate Transparency logs - search engines (cont)

<https://google.com/transparencyreport/https/ct/>

### Extracting sub-domains from Rapid7 FDNS dataset

```
$ zcat <dataset_name> | jq -r '.name | test("\\.example\\.com$") then .name else empty end'
```

### Extracting sub-domains from Rapid7 FDNS dataset (cont)

```
$ zcat 20170204-fdns.json.gz | jq -r 'if (.name | test("\\.example\\.com$")) then .name else empty end'
```

### Rapid7 · Forward DNS dataset

[https://scans.io/study/sonar.fdns\\_v2](https://scans.io/study/sonar.fdns_v2)

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### Zone walking - NSEC

```
$ ldns-walk @<nameserver> <domain>
```

### Zone walking - NSEC (cont)

```
$ ldns-walk @ns1.insecuredns.com  
insecuredns.com
```

### Installing ldns utilities

```
$ sudo apt-get install ldnsutils #  
On Ubuntu/Debian  
$ yum install ldns # On  
Redhat/CentOS
```

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## Zone transfer

```
$ dig AXFR @<nameserver> <domain>
```

## Zone transfer (cont)

```
$ dig AXFR @ns1.insecuredns.com  
insecuredns.com
```

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### Zone walking - NSEC3 - nsec3walker

```
$ ./collect insecurdns.com >  
insecurdns.com.collect
```

### Zone walking - NSEC3 - nsec3walker (cont)

```
$ ./unhash <  
insecurdns.com.collect >  
insecurdns.com.unhash
```

### Installing nsec3walker on Ubuntu 16.04:

```
$ wget  
https://dnscurve.org/nsec3walker-20101223.tar.gz`  
$ tar -xzf  
nsec3walker-20101223.tar.gz  
$ cd nsec3walker-20101223  
$ make
```

### Calculating NSEC3 hash for a domain

```
$ Idns-nsec3-hash -t <iterations> -s <salt>  
<domain>
```

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## Calculating NSEC3 hash for a domain (cont)

```
$ dns-nsec3-hash -t 10 -s 1A2B3C4D5E6F  
myzone.example.com
```



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