

```
#!/usr/bin/python3
```

```
import argparse
```

```
import dns
```

```
from hosts import parse_hosts
```

```
if __name__ == '__main__':
```

```
    parser = argparse.ArgumentParser(description='A python DNS server')
```

```
    parser.add_argument('-f', '--hosts', default='hosts.txt', help='The file to load hosts from')
```

```
    parser.add_argument('-a', '--address', default='127.0.0.1', help='Address to bind')
```

```
    parser.add_argument('-p', '--port', default=53, type=int, help='Port to bind')
```

```
    parser.add_argument('-d', '--debug', action='store_true', default=False, help='Print debug messages')
```

```
    args = parser.parse_args()
```

```
    defs = parse_hosts(args.hosts)
```

```
    if args.debug:
```

```
        print(defs)
```

```
    server = dns.UDPServer(defs, (args.address, args.port), args.debug)
```

```
    server.start()
```

```
"""
```

```
Autor Tom Douile
```

```
link: https://github.com/Douile/pydns/blob/master/hosts.txt
```

```
"""
```

C:\WINDOWS\system32>NSLOOKUP

Servidor predeterminado: resolver.zglobalhost.com

Address: 131.221.32.2

> www.google.com

Servidor: resolver.zglobalhost.com

Address: 131.221.32.2

Respuesta no autoritativa:

Nombre: www.google.com

Addresses: 2800:3f0:4003:c02::6a

2800:3f0:4003:c02::63

2800:3f0:4003:c02::68

2800:3f0:4003:c02::69

172.217.192.106

172.217.192.104

172.217.192.147

172.217.192.105

172.217.192.103

172.217.192.99

> google.com

Servidor: resolver.zglobalhost.com

Address: 131.221.32.2

Respuesta no autoritativa:

Nombre: google.com

Addresses: 2800:3f0:4003:c00::66

2800:3f0:4003:c00::8b

2800:3f0:4003:c00::64

2800:3f0:4003:c00::71

64.233.186.101

64.233.186.139

64.233.186.113

64.233.186.102

64.233.186.138

64.233.186.100

> lolu.uft.edu

Servidor: resolver.zglobalhost.com

Address: 131.221.32.2

\*\*\* resolver.zglobalhost.com no encuentra lolu.uft.edu: Non-existent domain

> server 127.0.0.1

Servidor predeterminado: localhost

Address: 127.0.0.1

> www.google.com

Servidor: localhost

```
> google.com
Servidor: resolver.zglobalhost.com
Address: 131.221.32.2
```

```
Respuesta no autoritativa:
Nombre: google.com
Addresses: 2800:3f0:4003:c00::66
           2800:3f0:4003:c00::8b
           2800:3f0:4003:c00::64
           2800:3f0:4003:c00::71
           64.233.186.101
           64.233.186.139
           64.233.186.113
           64.233.186.102
           64.233.186.138
           64.233.186.100
```

```
> lolo.uft.edu
Servidor: resolver.zglobalhost.com
Address: 131.221.32.2
```

```
*** resolver.zglobalhost.com no encuentra lolo.uft.edu: Non-existent domain
```

```
> server 127.0.0.1
Servidor predeterminado: localhost
Address: 127.0.0.1
```

```
> www.google.com
Servidor: localhost
Address: 127.0.0.1
```

```
Respuesta no autoritativa:
Nombre: www.google.com
Address: 216.58.206.100
```

```
> google.com
Servidor: localhost
Address: 127.0.0.1
```

```
Respuesta no autoritativa:
Nombre: google.com
Address: 216.58.204.14
```

```
> lolo.uft.cl
Servidor: localhost
Address: 127.0.0.1
```

```
Respuesta no autoritativa:
Nombre: lolo.uft.cl
Address: 12.34.56.78
```

```
> _
```

```
1.0.0.127.in-addr.arpa PTR py.dns
test.com 127.0.0.1
google.com 216.58.204.14
www.google.com A 216.58.206.100
lolo.uft.cl A 12.12.12.12
blue.google.com 12.34.56.78
google.com TXT Test text record
google.com NS ns.server.com
google.com CNAME test.google.com
```



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ESP

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