1. dig www.gnu.org

* IP address: 209.51.188.116
* DNS server: 192.168.43.234

1. host -v www.gnu.org

* IP address: 209.51.188.116
* DNS server: 192.168.43.234

1. nslookup www.gnu.org

* IP address: 209.51.188.116
* DNS server: 192.168.43.234

1. dig @8.8.4.4 www.gnu.org

* IP address: 209.51.188.116
* DNS server: 8.8.4.4

1. dig +short @8.8.4.4 [www.gnu.org](http://www.gnu.org)

* 209.51.188.116

1. dig +short -x 208.118.235.148

* ip-208-118-235-148.twdx.net.
* dig +short [www.gnu.org](http://www.gnu.org) => 209.51.188.116
* dig +short -x 209.51.188.116 => wildebeest1p.gnu.org

**#!/bin/bash**if [[ -z $1 ]]; then  
 1>&2 echo oof  
 exit 1  
fi  
  
result=$(dig "$1")  
ip=$(dig +short "$1")  
domain=$(dig +short -x "$ip")  
dns=$(echo "$result" | grep -P -o '(?<=SERVER: ).\*(?=#)')  
echo "DNS server of $1: $dns"  
echo "IP address of $1: $ip"  
echo "Reverse domains of $ip: $domain"