



中南大學
CENTRAL SOUTH UNIVERSITY



SEEDLAB 实验报告

【DNS_Local】



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DNS_Local 实验

服务器 IP : 10.0.2.4

用户 IP : 10.0.2.5

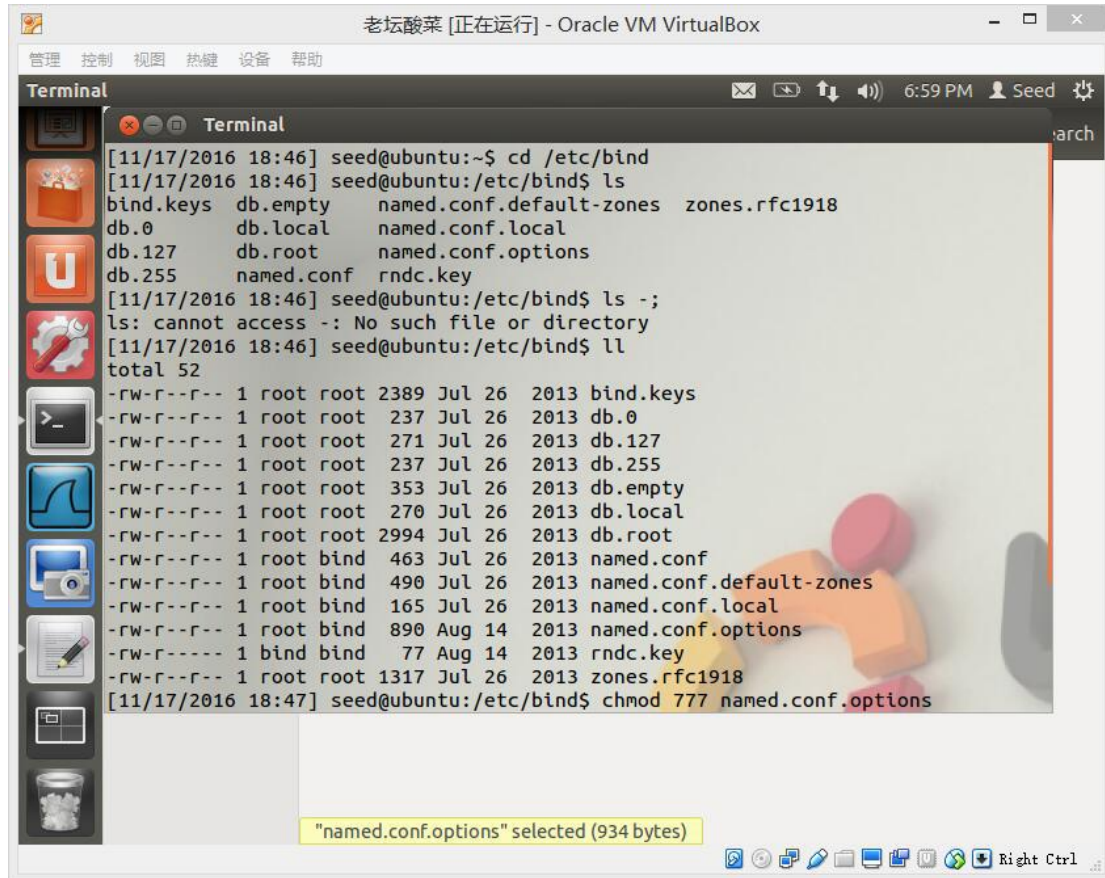
攻击者 IP : 10.0.2.6

1.配置服务器

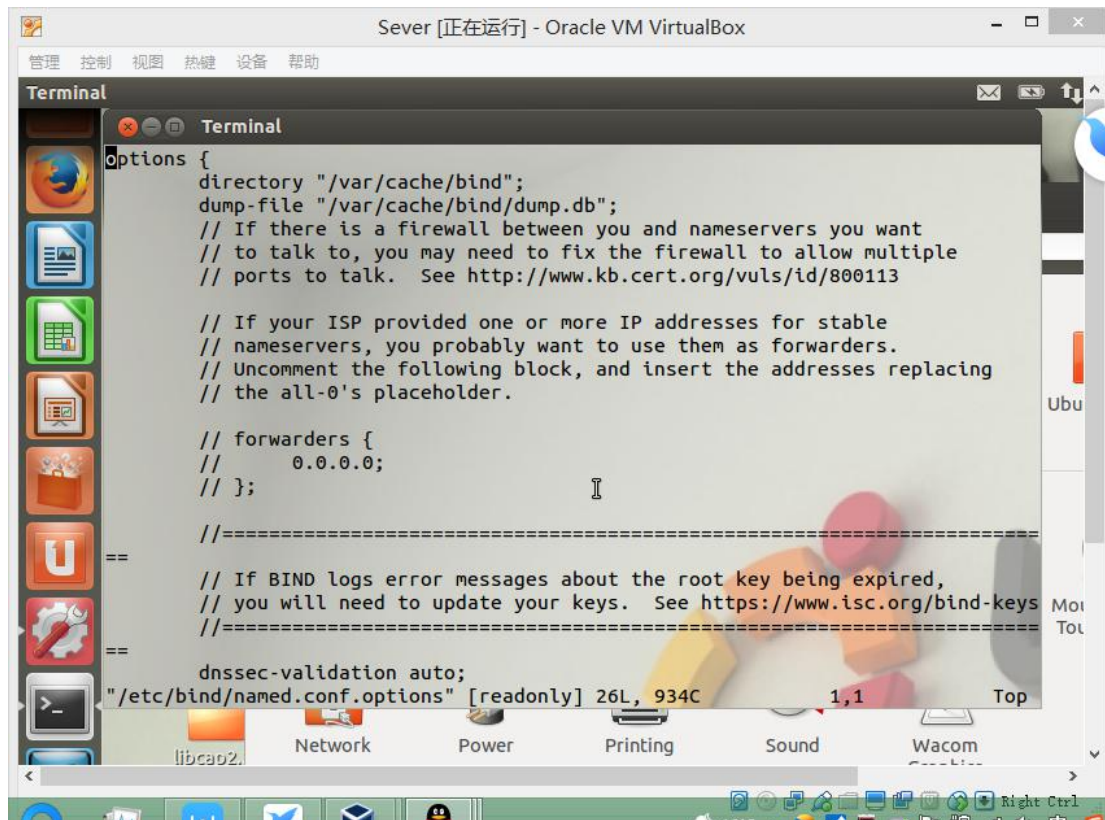
(1) 安装 # sudo apt-get install bind9

```
[11/17/2016 18:17] seed@ubuntu:~$ sudo apt-get install bind9
[sudo] password for seed:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  language-pack-kde-en language-pack-kde-en-base kde-l10n-engb
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  bind9-host bind9utils dnsutils libbind9-80 libdns81 libisc83 libisccc80
  libisccfg82 liblwres80
Suggested packages:
  bind9-doc rblcheck
The following packages will be upgraded:
  bind9 bind9-host bind9utils dnsutils libbind9-80 libdns81 libisc83
  libisccc80 libisccfg82 liblwres80
10 upgraded, 0 newly installed, 0 to remove and 538 not upgraded.
Need to get 1,633 kB of archives.
After this operation, 26.6 kB of additional disk space will be used.
Do you want to continue [Y/n]? Y
Get:1 http://us.archive.ubuntu.com/ubuntu/ precise-updates/main bind9 i386 1:9.8
.1.dfsg.P1-4ubuntu0.19 [340 kB]
```

(2) 创建 named.conf.options 文件




【进入文件更改权限】



【成功修改文件】

(3) 创建区域



Terminal

```
// This is the primary configuration file for the BIND DNS server named.
//
// Please read /usr/share/doc/bind9/README.Debian.gz for information on the
// structure of BIND configuration files in Debian, *BEFORE* you customize
// this configuration file.
//
// If you are just adding zones, please do that in /etc/bind/named.conf.local

include "/etc/bind/named.conf.options";
include "/etc/bind/named.conf.local";
include "/etc/bind/named.conf.default-zones";

zone "example.com"{
    type master;
    file "/var/cache/bind/example.com.db";
};

zone "2.0.10.in-addr.arpa"{
    type master;
    file "/var/cache/bind/10.0.2";
};

~
~
"/etc/bind/named.conf" 20L, 626C      1,1      All
```

libcan2 Network Power Printing Sound Wacom

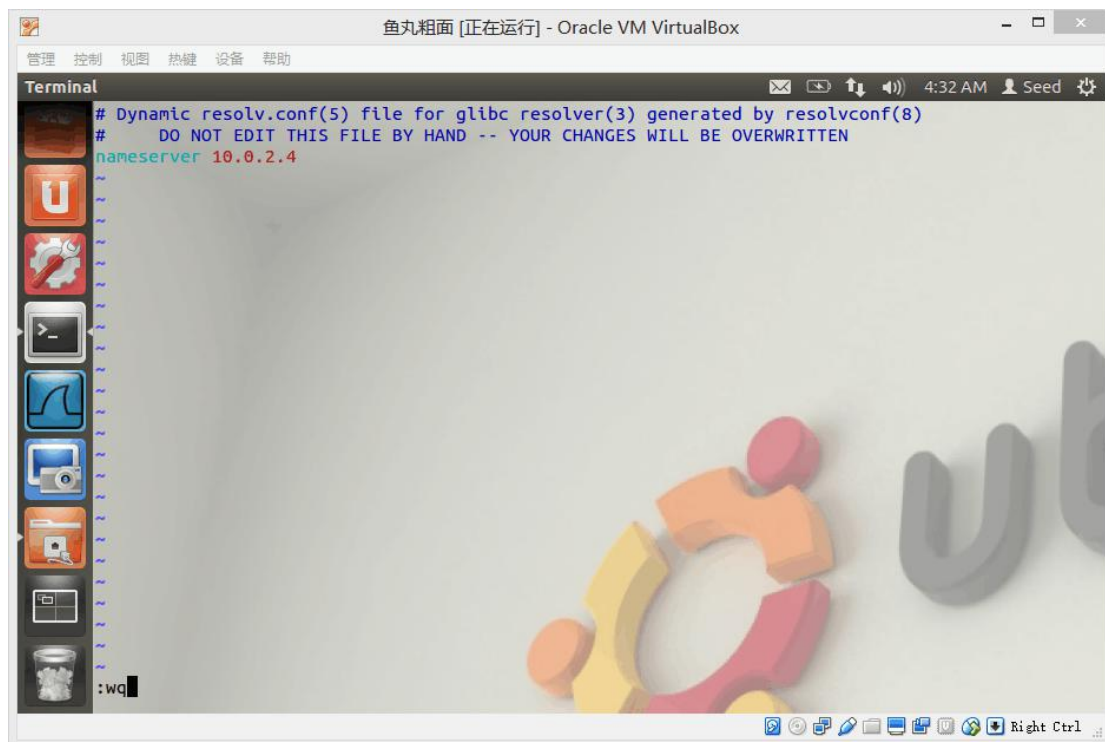
(4) 设置区域文件

```
al
Terminal
$TTL 3D
@      IN      SOA  ns.example.com. admin.exapmle.com. {
    2008111001 ;serial,today's date + today's serial number
    8H        ;refresh,seconds
    2H        ;retry,seconds
    4W        ;expire,seconds
    1D        ;minimum,seconds
}

@      IN      NS   ns.example.com. ;Address of name server
@      IN      MX   10 mail.example.com. ;Primary Mail Exchanger

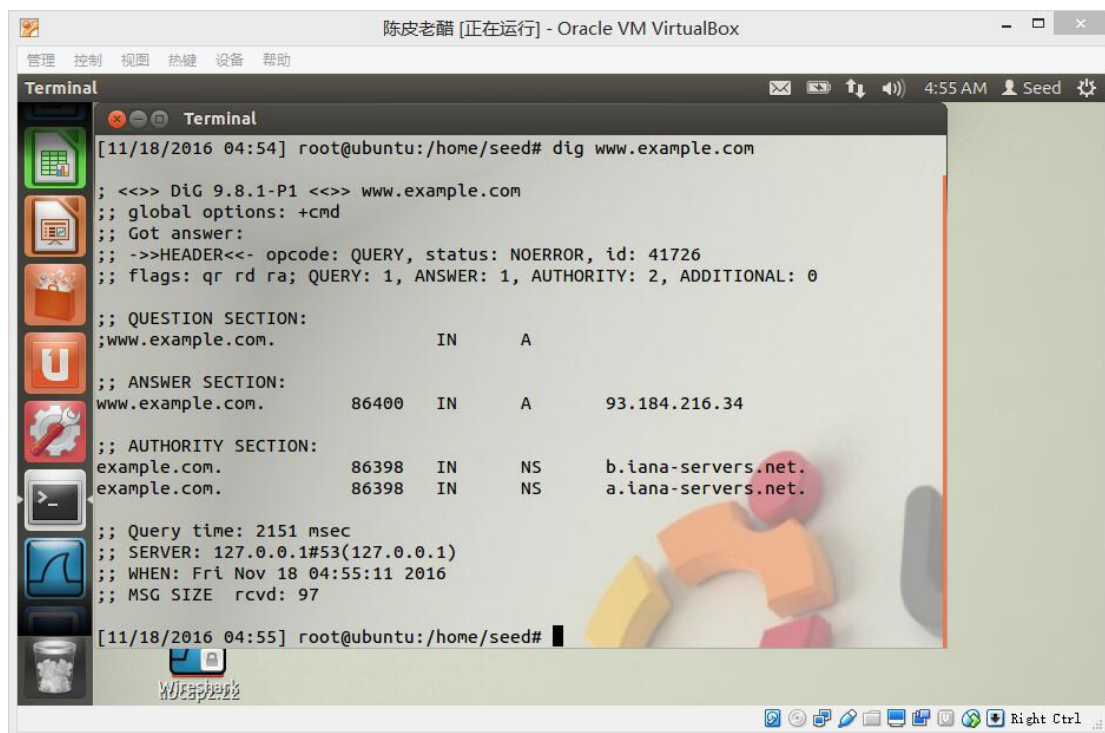
www    IN      A    10.0.2.101 ;Address of www.example.com
mail   IN      A    10.0.2.102 ;Address of mail.example.com
ns     IN      A    10.0.2.4   ;Address of ns.example.com
*.example.com. IN  A    10.0.2.5 ;Address for other URL in example.com. domain

:wg
```

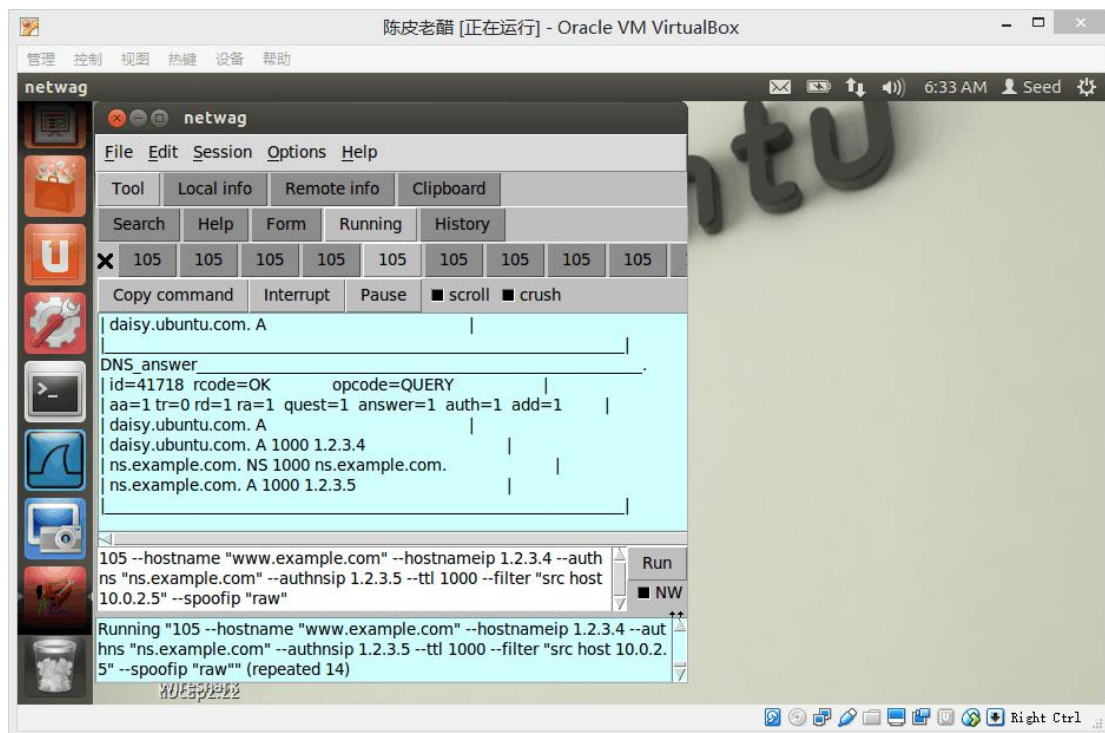



3.攻击者

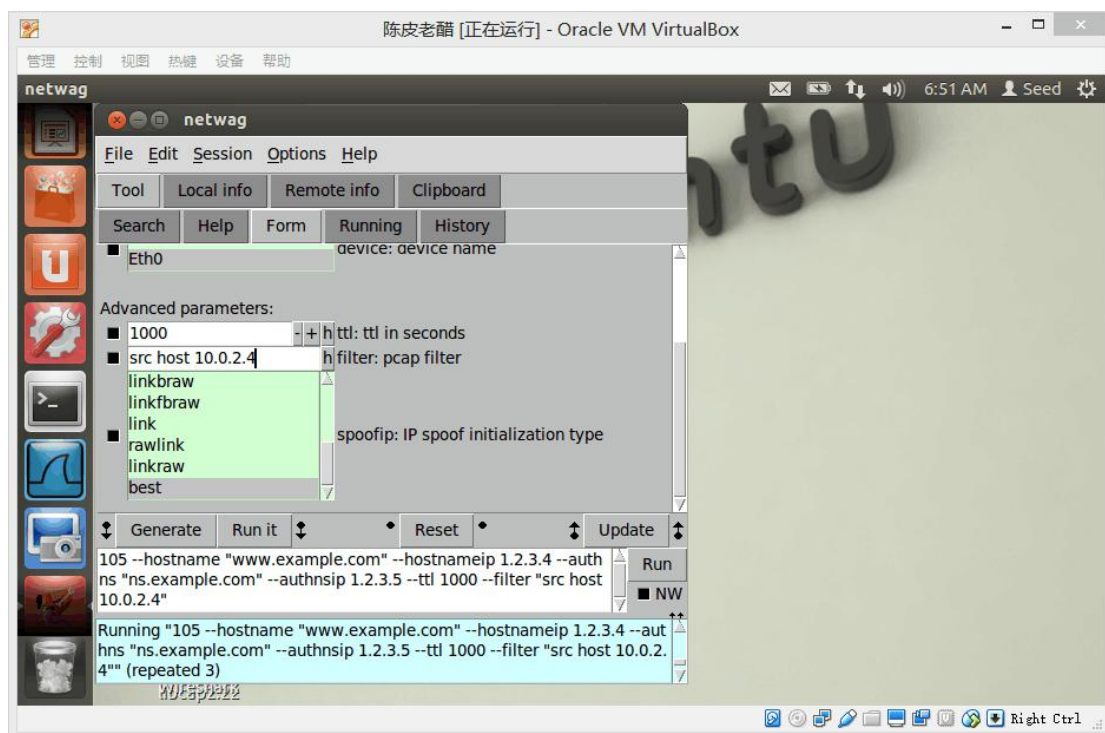
(1) dig 攻击

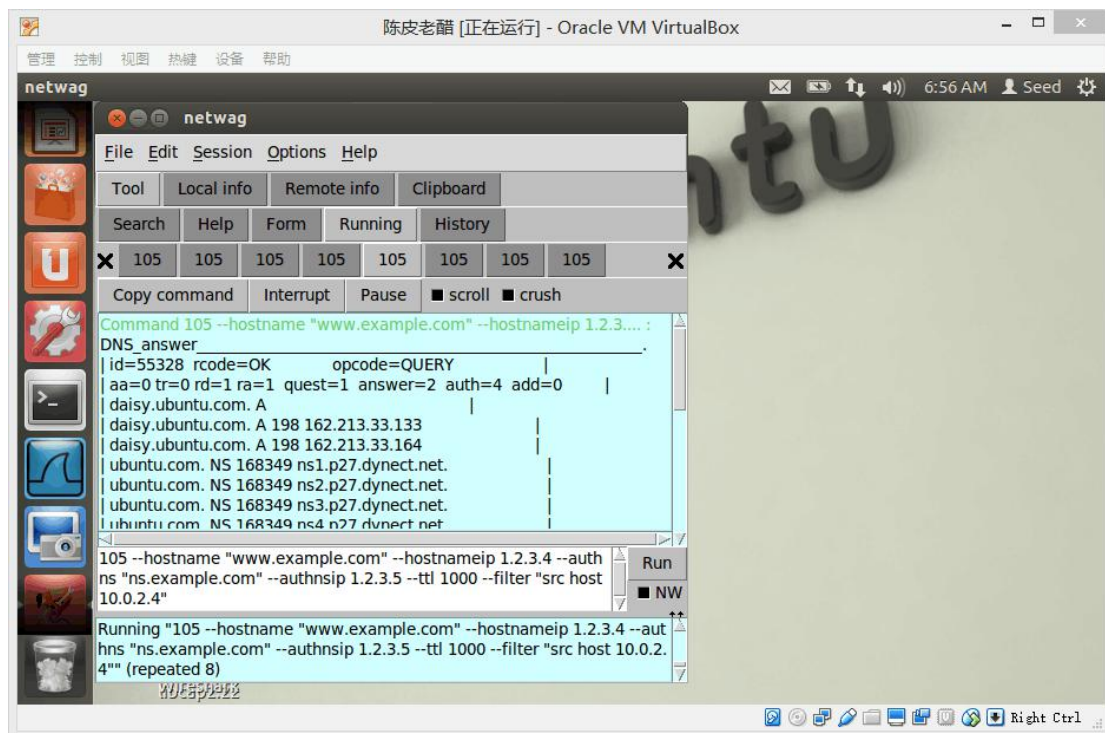


(2) 对用户发起攻击



(3) 对服务器发起攻击





4.原理：

DNS 本地攻击，当用户要访问一个网站时，攻击者先一步替换掉用户想访问的网站，或者替换掉服务器回应用户的网站。

5.问题：

在实验过程中，有时候需要用 root 权限才能在某目录下修改、创建文件。