XenServer_monitor

共包括7个文件:

conf.py: 用于配置主机 url, username 和 password. provision.py XenApi.py: XenServer Python SDK.

myutils.py srutils.py:两个自定义辅助工具

host1.py host2.py:以 xml 形式输出 host 信息,host1 比 host2 输出更详细。

sr.py:以xml形式输出 sr 信息。

host1(2).py 不支持参数,输出 host 上所有网络、存储和虚拟机信息。

```
<?xml version="1.0" ?>
<Host name="xenserver">
 <Host2Storage>
   <PBD>
     /opt/xensource/packages/iso
   </PBD>
   <PBD>
     /dev/xapi/cd
   </PBD>
   <PBD>
     /dev/xapi/block
   </PBD>
     //192.168.0.106/share
   </PBD>
 </Host2Storage>
 <Host2Network>
   <Network name="Pool-wide network associated with eth0">
     <gateway>
     </gateway>
       192.168.0.109
     </IP>
     <DNS>
       202.120.2.101,8.8.8.8
     </DNS>
     <device>
       eth0
     </device>
     <br/>bridge>
       xenbr0
     </bridge>
     <MAC>
       54:9f:35:0d:92:4e
     </MAC>
   </Network>
   <Network name="Pool-wide network associated with eth1">
     <device>
     </device>
     <br/>dge>
       xenbr1
     </bridge>
     <MAC>
       54:9f:35:0d:92:50
     </MAC>
   </Network>
 </Host2Network>
```

sr.py 不支持参数,输出 host 上所有 sr。

```
?xml version="1.0" ?>
SRs>
<SR name="Local storage">
  <PBDs>
    <PBD>
      <device_config/>
    </PBD>
  </PBDs>
    <VDI name="Ubuntu 0">
        75317c70-6360-449c-9431-5941dcb00c27
    </VDI>
    <VDI name="Windows7 0">
      <location>
        a05f0372-f1a3-4392-ab6a-8a4d7d0690bf
      </location>
    </VDI>
  <physical_size>
    290837233664
  </physical_size>
  <type>
    lvm
  </type>
</SR>
<SR name="XenServer Tools">
  <PBDs>
    <PBD>
      <device_config>
        <location>
          /opt/xensource/packages/iso
      </device_config>
    </PBD>
  </PBDs>
  <VDIs>
    <VDI name="XenCenter.iso">
      <location>
        XenCenter.iso
    </VDI>
     <VDI name="xs-tools.iso">
        xs-tools-6.5.0.iso
      </location>
    </VDI>
   </VDIs>
```

Xen_mount

mount.sh domain-img mount-dir: 挂载虚拟机文件系统 umount.sh domain-img mount-dir: 卸载虚拟机文件系统

```
dom@moster:~/xen_config$ sudo ./mount.sh windows.img /mnt
add map loopOp1 (252:2): 0 204800 linear /dev/loopO 2048
add map loopOp2 (252:3): 0 41734144 linear /dev/loopO 206848
dom@moster:~/xen_config$ cd /mnt/2
dom@moster:/mnt/2$ sudo echo "hello from linux " >linux.txt
dom@moster:/mnt/2$ ls
data.txt hiberfil.sys pagefile.sys Program Files
dom@moster:/mnt/2$ cd -
/home/dom/xen_config
dom@moster:/mt/2$ cd -
/home/dom/xen_config
ded@moster:~/xen_config$ sudo ./umount.sh windows.img /mnt
del devmap : loopOp2
deleted : /dev/loopO
dom@moster:~/xen_config$

dom@moster:~/xen_config$

dom@moster:~/xen_config$
```

Injector

依赖关系: 首先安装 Xen、libvmi、rekall 和 drakvuf 等软件。

process-list domain-name: 列出虚拟机上的所有进程。

injector recall-file domain-id process-id command: 在 domain-id 虚拟机中以 process-id 为父进程,以 command 为可执行文件创建一个新进程,以此实现进程注入。

```
dom@moster:~/drakvuf/drakvuf/libvmi/examples$ sudo ./process-list
LibVMI Suggestion: set win ntoskrnl=0x3c00000 in libvmi.conf for faster startup.
LibVMI Suggestion: set win_kdbg=0x1f10a0 in libvmi.conf for faster startup.
LibVMI Suggestion: set win kdvb=0xffffff80003df10a0 in libvmi.conf for faster sta
rtup.
Process listing for VM windows (id=5)
    4] System (struct addr:fffffa800236c990)
   220] smss.exe (struct addr:fffffa8003472b30)
  296] csrss.exe (struct addr:fffffa8003c32920)
   344] csrss.exe (struct addr:fffffa80023da060)
  352] wininit.exe (struct addr:fffffa80023e39e0)
  384] winlogon.exe (struct addr:fffffa8003d83b30)
   444] services.exe (struct addr:fffffa8003db2060)
   456] lsass.exe (struct addr:fffffa8003393b30)
  464] lsm.exe (struct addr:fffffa8003c9cb30)
  572] svchost.exe (struct addr:ffffffa800338cb30)
636] svchost.exe (struct addr:fffffa8003e4cb30)
   744] svchost.exe (struct addr:fffffa8003eb08a0)
  792] svchost.exe (struct addr:fffffa8003ed19e0)
   820] svchost.exe (struct addr:fffffa8003efc530)
  880] audiodg.exe (struct addr:fffffa8003f16b30)
  1004] svchost.exe (struct addr:fffffa8003f75b30)
  432] svchost.exe (struct addr:fffffa8003fb1b30)
  1064] spoolsv.exe (struct addr:fffffa8004015060)
 1100] svchost.exe (struct addr:fffffa800404fb30)
 1164] taskhost.exe (struct addr:fffffa80034b4060)
 1272] dwm.exe (struct addr:fffffa80040e11b0)
  1288] explorer.exe (struct addr:fffffa80040e6b30)
[ 1440] svchost.exe (struct addr:fffffa800419c360)
 2008] SearchIndexer. (struct addr:fffffa8003f5c260)
 1540] SearchProtocol (struct addr:fffffa8004344b30)
[ 1620] SearchFilterHo (struct addr:ffffffa8004196b30)
```

```
dom@moster:~/drakvuf/drakvuf/src$ sudo ./injector ~/windows.rekall.json 5 1288 "
cmd.exe"
Init VMI on domID 5 -> windows
Rekall profile: '_KPCR' has no 'PrcbData' member
Failed to find offset for _KPCR:PrcbData
Reservation increased? 0 with new gfn: 0x8040
Xen altp2m view created with idx: 1 idr: 2
Windows kernel base address is 0xfffff80003c00000
libdrakvuf initialized
Injector starting cmd.exe through PID 1288 TID: 0
Target PID 1288 with DTB 0x39897000 to start 'cmd.exe'
```

```
dom@moster:~/drakvuf/drakvuf/libvmi/examples$ sudo ./process-list windows
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LibVMI Suggestion: set win_kdvb=0xfffff80003df10a0 in libvmi.conf for faster startup.
Process listing for VM windows (id=5)
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   352] wininit.exe (struct addr:fffffa80023e39e0)
   384] winlogon.exe (struct addr:fffffa8003d83b30)
444] services.exe (struct addr:fffffa8003db2060)
   456] lsass.exe (struct addr:fffffa8003393b30)
   464] lsm.exe (struct addr:fffffa8003c9cb30)
   572] svchost.exe (struct addr:fffffa800338cb30)
   636] svchost.exe (struct addr:fffffa8003e4cb30)
744] svchost.exe (struct addr:fffffa8003eb08a0)
   792] svchost.exe (struct addr:fffffa8003ed19e0)
   820] svchost.exe (struct addr:fffffa8003efc530)
   880] audiodg.exe (struct addr:fffffa8003f16b30)
  1004] svchost.exe (struct addr:fffffa8003f75b30)
432] svchost.exe (struct addr:fffffa8003fb1b30)
  1064] spoolsv.exe (struct addr:fffffa8004015060)
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  1164] taskhost.exe (struct addr:fffffa80034b4060)
  1272] dwm.exe (struct addr:ffffffa80040e11b0)
  1288] explorer.exe (struct addr:fffffa80040e6b30)
  1440] svchost.exe (struct addr:fffffa800419c360)
  2008] SearchIndexer. (struct addr:fffffa8003f5c260)
  1160] cmd.exe (struct addr:fffffa8004344b30)
  1208] conhost.exe (struct addr:fffffa80040d5400)
1904] svchost.exe (struct addr:fffffa8004046060)
   808] explorer.exe (struct addr:fffffa8003d92b30)
```