SK634 - Planned Power Outage

Purpose - Properly shut down all electrical equipment

Procedure

General Office/Warehouse Equipment

- Use SpecOps on Active Directory to remotely shut down all Windows Computers
- SSH into each Linux machine in the warehouse to `telinit 0`

VMware vSphere Client

Launch the VMware vSphere Client and enable SSH on ESXi01 and ESXi02

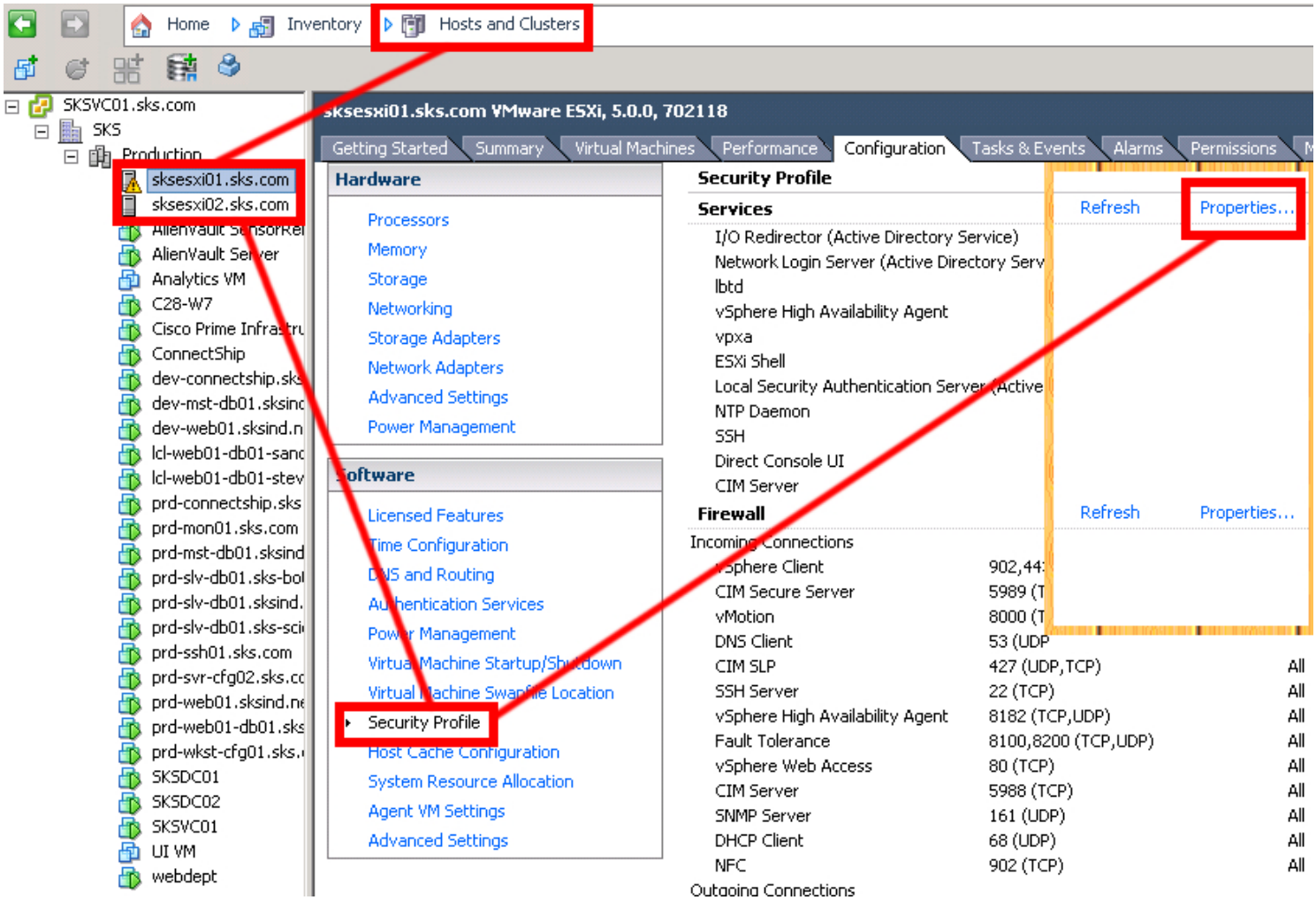

Figure 1: ESXi-SSH1

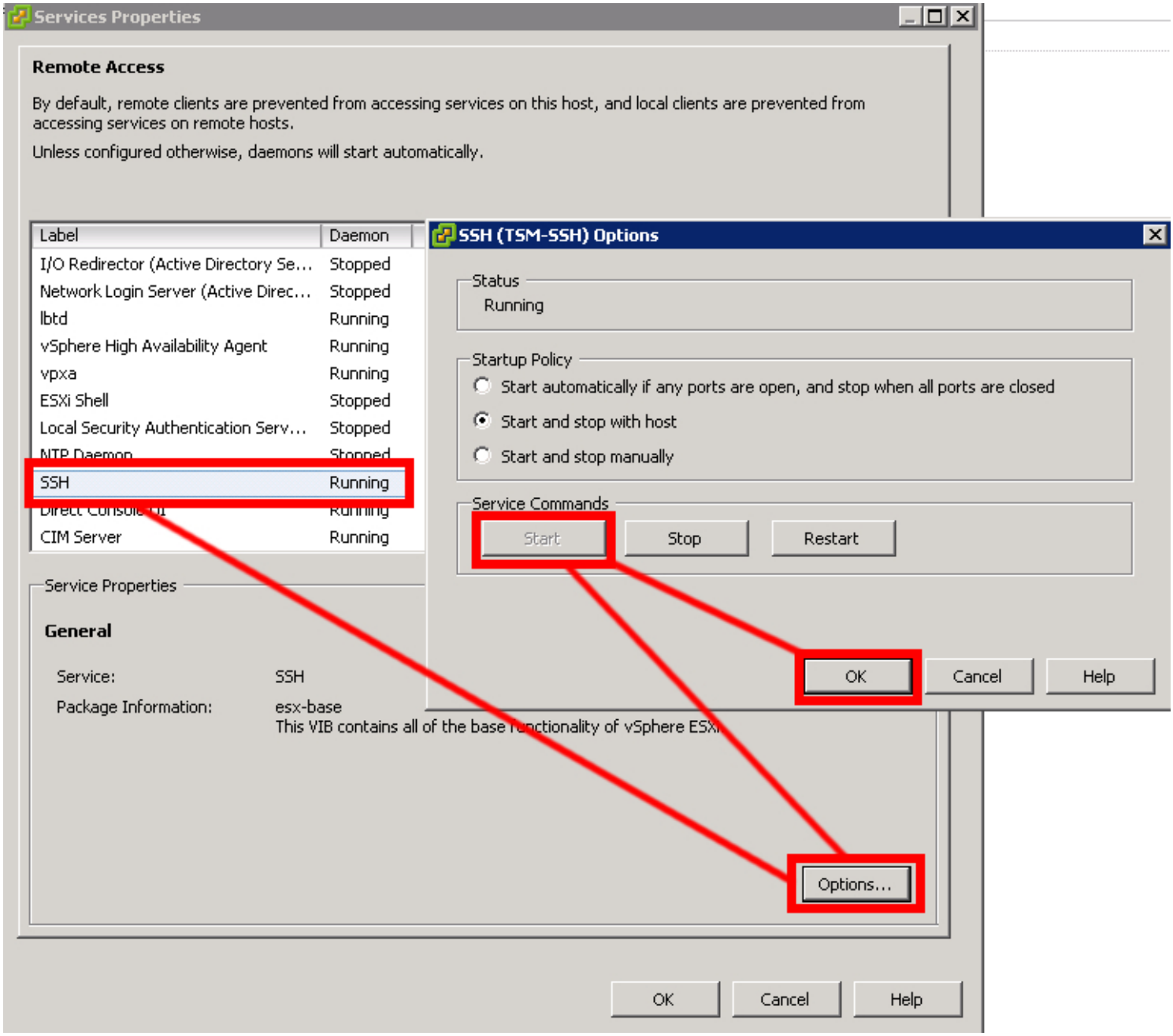

Figure 2: ESXi-SSH2

Power Off

Virtual Machines

There are two options to turning off guest VMs

1. Use the vSphere client [**DO NOT USE THIS - UNGRACEFUL SHUTDOWN**]
   - Right-click each virtual machine and Power Off
2. SSH into each VM and gracefully poweroff. Below are VMs that require more special attention before powering off

Server	IP Address	Procedure
AlienVault Server	192.168.1.229	Option 7 - Shutdown Appliance
AlienVault Sensor	192.168.1.230	Option 7 - Shutdown Appliance
SKS-Bottle Slave	192.168.4.21	`mysqladmin -u root -p stop-slave; telinit 0`

Server	IP Address	Procedure
SKS-Connect Slave	192.168.4.20	`mysqladmin -u root -p stop-slave; telinit 0`
SKS-Science Slave	192.168.4.22	`mysqladmin -u root -p stop-slave; telinit 0`
SKSDC01	192.168.1.224	`vim-cmd vmsvc/power.shutdown vID`
SKSDC02	192.168.1.7	`vim-cmd vmsvc/power.shutdown vID`
SKSVC01	192.168.223	`vim-cmd vmsvc/power.shutdown vID`
webdept	192.168.1.4	Windows Shutdown

ESXi Hosts

Once all of the guest VMs are turned off, only then, can the ESXI host can shut down

1. SSH into ESXi01/02
    - ESXi01 - 10.1.1.223
    - ESXi02 - 10.1.1.224
2. On both of the ESXi servers, bring them into Maintenance Mode, Shutdown delay, and Exit Maintenance Mode

```
esxcli system maintenanceMode set -e true -t 0
esxcli system shutdown poweroff -d 10 -r "Shell initiated system shutdown"
esxcli system maintenanceMode set -e false -t 0
```

NetApp Storage

Enter 5 minutes to initiate a clean system halt

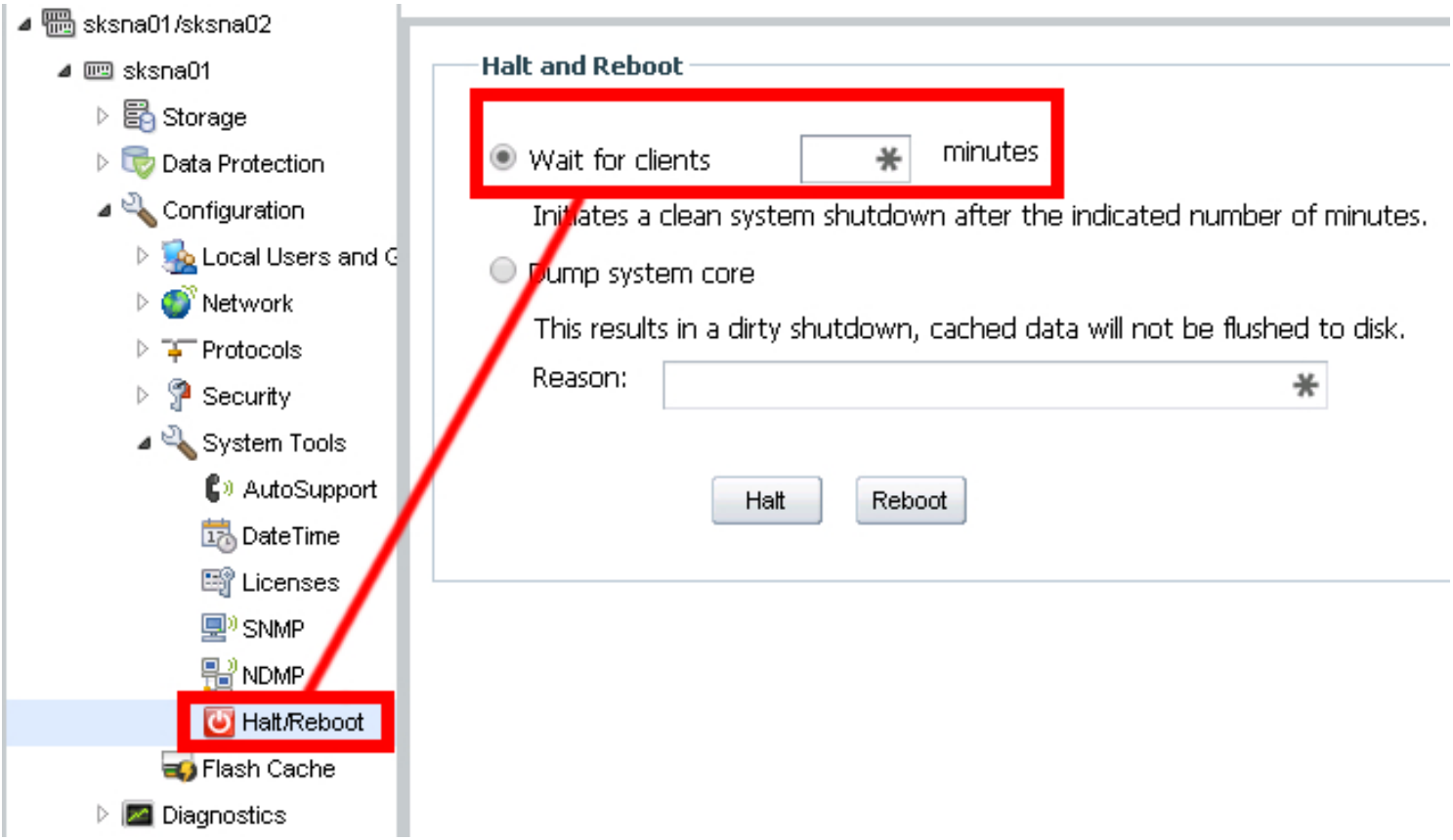

Figure 3: NetApp1

Once the NetApp has come to a halt, flip the power switches on the back of the NetApp

Firewall/Switches

Unplug the Switches

Unplug the Firewall

Power On

The procedure would be the opposite

Common Issues

When all of the equipment is powered on, there may be no Internet access. This is related to duplicate VMs on both of the ESXI hosts. In order to resolve this issue, it would require a Windows computer with a vSphere client.

Log into the vSphere client with **one** of the following IP addresses:

IP Address: 10.1.1.223 or 10.1.1.224

In the Summary Tab, it may ask a question that you will have to respond to

Turn on SKSDC01, SKSDC02, and SKSVC01 on **one** of the hosts (10.1.1.223 OR 10.1.1.224)

Once those are on, sign into the vSphere Client with Windows session credentials

If signing in does not work, double check the IP address of SKSVC01