

IBM

IBM Security Network Intrusion Prevention System V4.1

Restore the appliance to factory default (configured)



This is a self-running demonstration that shows you how to complete a task. Controls are available at the bottom of the screen.

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Restore the appliance to factory default (configured)

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Objectives

When you complete this module, you should be able to perform the following tasks:

- Define the factory default restoration options
- Restore the appliance to the factory default settings and maintain some settings

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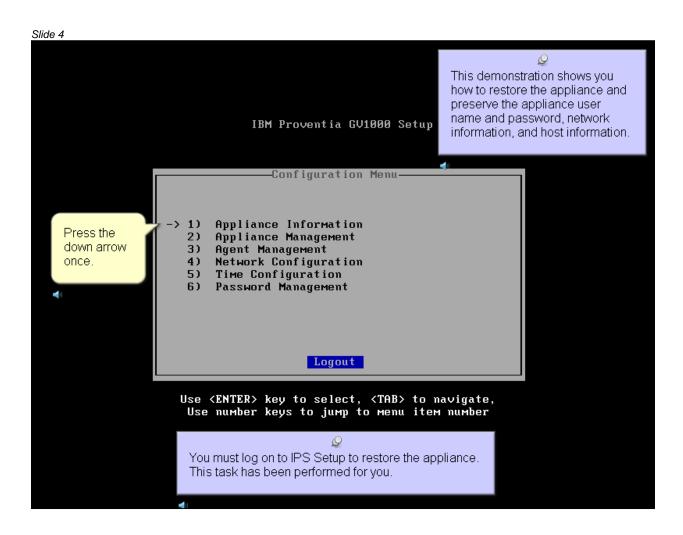
Restoring the appliance

There are two options you can use to restore your IBM Security Network Intrusion Prevention appliance to the default settings:

- Restore the appliance to factory default (configured), which preserves:
 - User name and password
 - Network configuration
 - Host configuration such as the appliance host name and domain name
- Restore the appliance to factory default (unconfigured), which removes all of the appliance settings

Note: You can restore the appliance using either the management port or console port.

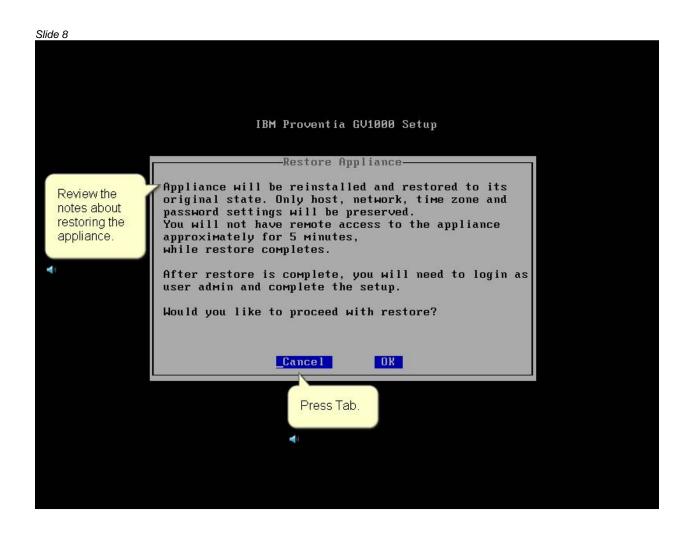
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```
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```

```
Broadcast message from root (tty1) (Mon Sep 19 12:33:13 2011):
The system is going down for reboot NOW!
INIT: Switching to runlevel: 6
INIT: Sending processes the TERM signal
Boot logging started on /dev/tty1(/dev/console) at Mon Sep 19 12:33:17 2011
Master Resource Control: previous runlevel: 3, switching to runlevel:6
Stopping accessMonitord:
                                                                                     done
Stopping service anacron: - Warning: daemon not running.
                                                                                     done
Shutting down httpd2 (waiting for all children to terminate)
Shutting down service at daemon
Shutting down CRON daemon
                                                                                     done
                                                                                     done
                                                                                     done
Unloading iptables rules...ipv4...ipv6...
                                                                                     done
Stopping iss-rrdd:
issFipsd is already stopped:
Stopping iss-dbd:
                                                                                     done
                                                                                     done
                                                                                     done
Saving random seed
                                                                                     done
                                                                                     done
Stopping provpktlogger:
Shutting down SSH daemon
Stopping issDaemon: _
                                                                                     done
                                                                                     done
```

```
Shutting down service at daemon
Shutting down CRON daemon
Unloading iptables rules...ipv4...ipv6...
                                                                                                         done
                                                                                                         done
                                                                                                         done
Stopping iss-rrdd:
issFipsd is already stopped:
Stopping iss-dbd:
Saving random seed
                                                                                                         done
                                                                                                         done
                                                                                                         done
                                                                                                         done
                                                                                                         done
Stopping provpktlogger:
                                                                                                         done
Shutting down SSH daemon
Stopping issDaemon:
Stopping iss-lum:
                                                                                                         done
                                                                                                         done
                                                                                                         done
                                                                                                         done
Stopping issppd:
Shutting down syslog services
                                                                                                         done
                                                                                                         done
Shutting down network interfaces:
      eth0
                                                                                                         done
      eth1
                                                                                                         done
      eth2
                                                                                                         done
      eth3
                                                                                                         done
Shutting down service network .
Shutting down HAL daemon
                                                                                                         done
Shutting down resource manager
Shutting down D-BUS daemon_
                                                                                                         done
```

```
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          eth0
                                                                                          done
          eth1
                                                                                          done
         eth2
                                                                                          done
         eth3
                                                                                          done
     Shutting down service network . . .
                                                                                          done.
     Shutting down HAL daemon
Shutting down resource manager
                                                                                          done
                                                                                          done
     Shutting down D-BUS daemon
                                                                                          done
     Running /etc/init.d/halt.local
                                                                                          done
    Sending all processes the TERM signal...
Sending all processes the KILL signal...
Turning off swap
                                                                                          done
                                                                                          done
                                                                                          done
     Set Hardware Clock to the current System Time
                                                                                          done
                                                                                          done
     Unmounting file systems
∕dev∕sda7 umounted
     /dev/sda6 umounted
     /dev/sda3 umounted
     /dev/sda1 umounted
     devpts umounted
     debugfs umounted
     sysfs umounted
     ∕dev/sda5 umounted
                                                                                          done
     Stopping udevd:
                                                                                          done
```

```
eth2
                                                                                                       done
      eth3
                                                                                                       done
Shutting down service network . . .
                                                                                                       done.
Shutting down HAL daemon
                                                                                                       done
Shutting down resource manager
                                                                                                       done
Shutting down D-BUS daemon
Running /etc/init.d/halt.local
                                                                                                       done
                                                                                                       done
Sending all processes the TERM signal...
Sending all processes the KILL signal...
Turning off swap
Set Hardware Clock to the current System Time
                                                                                                       done
                                                                                                       done
                                                                                                       done
                                                                                                       done
                                                                                                       done
Unmounting file systems
/dev/sda7 umounted
/dev/sda6 umounted
/dev/sda3 umounted
/dev/sda1 umounted
devpts umounted
debugfs umounted
sysfs umounted
/dev/sda5 umounted
                                                                                                       done
Stopping udevd:
                                                                                                       done
proc umounted
Please stand by while rebooting the system...
```

```
Booting 'Proventia GU1000 Restore System Backup factory'

root (hd0,2)

Filesystem type is ext2fs, partition type 0x83
kernel /bzImage IssHighMem=100m rdinit=/fullrestore console=null backupslot=factory

[Linux-bzImage, setup=0x1c00, size=0x1649f4]
initrd /initfs.gz

[Linux-initrd @ 0x1fc05000, 0x3ea109 bytes]

Uncompressing Linux... Ok, booting the kernel.
```

```
Booting 'Proventia GV1000 Restore System Backup factory'

root (hd0,2)
Filesystem type is ext2fs, partition type 0x83
kernel /bz1mage IssHighMem=100m rdinit=/fullrestore console=null backupslot=factory
Linux-bz1mage, setup=0x1c00, size=0x1649f4]
initrd /initfs.gz
[Linux-initrd @ 0x1fc05000, 0x3ea109 bytes]

Uncompressing Linux... Ok, booting the kernel.

done
Restoring OS and software:
Restoring /dev/sda1...done
Restoring /dev/sda3...done
Restoring /dev/sda5...\_
```

```
Booting 'Proventia GU1000 Restore System Backup factory'

root (hd0,2)

Filesystem type is ext2fs, partition type 0x83
kernel /bzImage IssHighMem=100m rdinit=/fullrestore console=null backupslot=factory

[Linux-bzImage, setup=0x1c00, size=0x1649f4]
initrd /initfs.gz
[Linux-initrd @ 0x1fc05000, 0x3ea100 bytes]

Uncompressing Linux... Ok, booting the kernel.

done
Restoring OS and software:
Restoring /dev/sda1...done
Restoring /dev/sda5...done
Restoring /dev/sda5...done
Restoring /dev/sda6...done
Restoring cache filesystem structure...done
Creating swap space...done
Configuring boot loader..._
```

GNU GRUB version 0.97 (638k lower / 1046464k upper memory)

Proventia GU1000 Linux-up (2.6.16.46-363-up)
Proventia GU1000 Linux-smp (2.6.16.46-363-smp)
Proventia GU1000 Create System Backup 0
Proventia GU1000 Restore System Backup 0
Proventia GU1000 Restore Factory Image (unconfigured)

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS or 'p' to enter a password to unlock the next set of features.

The highlighted entry will be booted automatically in 3 seconds.

```
Using tsc for high-res timesource
Console: colour VGA+ 80x25
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Memory: 102400k highmem reserved for ISS buffer at 37fff000
Memory: 930384k/1048576k available (1993k kernel code, 14940k reserved, 613k dat a, 188k init, 131012k highmem)
Checking if this processor honours the WP bit even in supervisor mode... 0k.
Calibrating delay using timer specific routine. 4004.92 BogoMIPS (lpj=8009855)
Security Framework v1.0.0 initialized
Mount-cache hash table entries: 512
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 256K
CPU: L3 cache: 4096K
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
CPU: Intel(R) Xeon(R) CPU
Checking 'hlt' instruction... OK.
                                                        E5504 @ 2.00GHz stepping 05
checking if image is initramfs...it isn't (bad gzip magic numbers); looks like a
n initrd
Freeing initrd memory: 2744k freed
 not found!
ENABLING IO-APIC IRQs
..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1
```

```
sda: cache data unavailable
sda: assuming drive cache: write through
SCSI device sda: 16777216 512-byte hdwr sectors (8590 MB)
sda: Write Protect is off
sda: cache data unavailable
sda: assuming drive cache: write through sda: sda1 sda2 sda3 sda4 < sda5 sda6 sda7 >
sd 0:0:0:0: Attached scsi disk sda
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx \mbox{\sc UMware} vmxnet virtual NIC driver
ACPI: PCI Interrupt 0000:02:00.0[A] -> GSI 18 (level, low) -> IRQ 59
Found vmxnet/PCI at 0x2024, irq 59.
features: ipCsum zeroCopy partialHeaderCopy jumboFrame tso lpd
numRxBuffers = 150, numRxBuffers2 = 600
ACPI: PCI Interrupt 0000:02:01.0[A] -> GSI 19 (level, low) -> IRQ 67
Found vmxnet/PCI at 0x20a4, irq 67.
features: ipCsum zeroCopy partialHeaderCopy jumboFrame tso lpd
numRxBuffers = 150, numRxBuffers2 = 600
ACPI: PCI Interrupt 0000:02:02.0[A] -> GSI 16 (level, low) -> IRQ 75
Found vmxnet/PCI at 0x2424, irq 75. features: ipCsum zeroCopy partialHeaderCopy jumboFrame tso lpd
numRxBuffers = 150, numRxBuffers2 = 600
ACPI: PCI Interrupt 0000:02:03.0[A] -> GSI 17 (level, low) -> IRQ 51
```

```
Found ∨m×net/PCI at 0×24a4, irq 51.
features: ipCsum zeroCopy partialHeaderCopy jumboFrame tso lpd
numRxBuffers = 150, numRxBuffers2 = 600
EXT3-fs: mounted filesystem with ordered data mode.
kjournald starting. Commit interval 5 seconds
INIT: version 2.86 booting
System Boot Control: Running /etc/init.d/boot
Mounting procfs at /proc
                                                                                                    done
Mounting sysfs at /sys
                                                                                                    done
Mounting debugfs at /sys/kernel/debug
Mounting tmpfs at /dev
Initializing /dev
                                                                                                    done
                                                                                                    done
                                                                                                    done
Mounting devpts at /dev/pts
Boot logging started on /dev/tty1(/dev/console) at Mon Sep 19 12:35:28 2011
Configuring serial ports...
/dev/ttyS0 at 0x03f8 (irq = 4) is a 16550A
/\text{dev/ttyS1} at 0 \times 0 \times 2 \times 8 (irq = 3) is a 16550A
Configured serial ports
                                                                                                    done
EXT3 FS on sda5, internal journal
Activating swap-devices in /etc/fstab...
                                                                                                    done
/bin/mknod -m600 /dev/shm/root b 8 5
Checking root file system...
fsck 1.38 (30-Jun-2005)
 / (/dev/shm/root): clean, 26019/262656 files, 171898/524288 blocks
Starting udevd _
```

```
EXT3-fs: mounted filesystem with ordered data mode. 
 \dev/sda7 on \dev/sda7 or \dev/sda7
                                                                                                                                                                                                                                                                                     done
NET: Registered protocol family 17
Setting up hostname 'sam'
Setting up loopback interface
                                                                                                                                                                                                                                                                                     done
                                                         IP address: 127.0.0.1/8
                                                                                                                                                                                                                                                                                     done
Setting up the hardware clock
                                                                                                                                                                                                                                                                                     done
Creating /var/log/boot.msg
                                                                                                                                                                                                                                                                                     done
Activating remaining swap-devices in /etc/fstab...
Setting up linker cache (/etc/ld.so.cache) using ldconfig
                                                                                                                                                                                                                                                                                     done
                                                                                                                                                                                                                                                                                     done
Setting scheduling timeslices
                                                                                                                                                                                                                                                                                     unused
Setting current sysctl status from /etc/sysctl.conf
kernel.core_uses_pid = 1
kernel.panic = 60
net.ipv4.conf.all.rp_filter = 1
net.ipv4.icmp_echo_ignore_broadcasts = 1
net.ipv4.neigh.default.gc_interval = 30
net.ipv4.neigh.default.gc_stale_time = 20 net.ipv4.neigh.default.gc_thresh1 = 512 net.ipv4.neigh.default.gc_thresh2 = 2048
net.ipv4.neigh.default.gc\_thresh3 = 4096
vm.lowmem_reserve_ratio = 256 256 1 32
                                                                                                                                                                                                                                                                                     done
```

```
Executing /sbin/conf.d/SuSEconfig.groff...
Executing /sbin/conf.d/SuSEconfig.libxm12...
Executing /sbin/conf.d/SuSEconfig.news...
Installing new /etc/nntpserver
Executing /sbin/conf.d/SuSEconfig.perl...
Executing /sbin/conf.d/SuSEconfig.permissions...
Checking permissions and ownerships - using the permissions files
         /etc/permissions.d/iss_provos
         /etc/permissions
         /etc/permissions.easy
         /etc/permissions.local
setting /etc/shadow to root:shadow 0640. (wrong owner/group root:root permission
setting /etc/ssh/sshd_config to root:root 0640. (wrong permissions 0644)
Executing /sbin/conf.d/SuSEconfig.sortpasswd...
Executing /sbin/conf.d/SuSEconfig.words...
Executing /sbin/conf.d/SuSEconfig.zmessages...
Finished.
INIT: Entering runlevel: 3
Boot logging started on /dev/tty1(/dev/console) at Mon Sep 19 12:35:39 2011
Master Resource Control: previous runlevel: N, switching to runlevel:3
Starting service at daemon
                                                                                 done
Starting D-BUS daemon
                                                                                 done
Starting service anacron:
                                                                                 done
```

```
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```

```
Stop Unicode mode
Starting resource manager
Starting HAL daemon
                                                                                     done
                                                                                     done
Loading iptables rules...ipv4...ipv6...
Setting up network interfaces:
                                                                                     done
     lo
                 IP address: 127.0.0.1/8
                                                                                     done
    eth0
    eth0
                 is down
    eth0
                                                                                     done
    eth1
    eth1
                 is down
    eth1
    eth1
                 IP address: 192.168.5.110/24
/usr/sbin/mDNSResponder is already stopped:
Starting iss-mdns:
eth2
                                                                                     done
                                                                                     done
     eth2
                 is down
    eth2
                 IP address: 0.0.0.0/0
     eth2
                                                                                     done
    eth3
    eth3
                 is down
    eth3
                 IP address: 0.0.0.0/0
    eth3
                                                                                     done
```



Restore the appliance to factory default (configured)

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