For more information for the Linux dosmasq security vulnerabilities (MULTIPLE CVEs), please see this Vulnerability Article (https://access.redhat.com/security/vulnerabilities/3199382).

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Chapter 29. Configuring the Xen kernel boot parameters

The GNU Grand Unified Boot Loader (GRUB) is a program for booting various installed operating systems or kernels. GRUB also allows the user to pass arguments to the kernel. The GRUB configuration file (located in /boot/grub/grub.conf) creates the list of operating systems the GRUB boot menu interface. When you install the kernel-xen RPM, a script adds the kernel-xen entry to the GRUB configuration file which boots kernel-xen by default. Edit the grub.conf file to modify the default kernel or to add additional kernel parameters.

title Red Hat Enterprise Linux Server (2.6.18-3.el5xen) root (hd0,0) kernel /xen.gz.-2.6.18-3.el5 module /vmlinuz-2.6..18-3.el5xen ro root=/dev/VolGroup00/LogVol00 rhgb quiet module /initrd-2.6.18-3. el5xenxen.img

If you set your Linux grub entries to reflect this example, the boot loader loads the hypervisor, initral image, and Linux kernel. Since the kernel entry is on top of the other entries, the kernel loads into memory first. The boot loader sends, and receives, command line arguments to and from the hypervisor and Linux kernel. This example entry shows how you would restrict the Dom0 linux kernel memory to 800 MB.

title Red Hat Enterprise Linux Server (2.6.18-3.el5xen) root (hd0,0) kernel /xen.gz.-2.6.18-3.el5 dom0_mem=800M module /vmlinuz-2.6.18-3.el5xen ro root=/dev/VolGroup00/LogVol00 rhgb quiet module /initrd-2.6.18-3. el5xenxen.img

You can use these GRUB parameters to configure the Virtualization hypervisor:

mem

This limits the amount of memory that is available to the hypervisor kernel.

com1=115200, 8n1

This enables the first serial port in the system to act as serial console (com2 is assigned for the next port, and so on).

dom0_mem

This limits the memory available for the hypervisor.

dom0_max_vcpus

This limits the amount of CPUs visible to the Xen domain0.

acpi

This switches the ACPI hypervisor to the hypervisor and domain0. The ACPI parameter options include:

/* **** Linux config options: propagated to domain0 ****/ /* "acpi=off": Disables both ACPI table parsing and interpreter. */ /* "acpi=force": Overrides the disable blacklist. boot-time to enable HT. */ /* "acpi=noirg": Disables ACPI interrupt routing. */

noacpi

This disables ACPI for interrupt delivery.

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