

Virtual Blade Configuration Mode Commands

To configure virtual blades on a WAE device, use the **virtual-blade** global configuration command. To disable a virtual blade, use the **no** form of this command.

virtual-blade *virtual-blade-number*

no virtual-blade *virtual-blade-number*

Syntax Description	<i>virtual-blade-number</i>	Number of the virtual blade that you want to configure. The range of valid values depends on the number of virtual blades that your WAE or WAVE appliance can support.
Defaults	No default behavior or values.	
Command Modes	global configuration	
Device Modes	application-accelerator	
Usage Guidelines	Use the virtual-blade command to configure virtual blades on your WAE. This command initiates the virtual blade configuration mode as indicated by the (config-vb) prompt. Within virtual blade configuration mode, you can use the various commands (device, disk, interface, and so on) to define the resource parameters for the virtual blade. To return to global configuration mode, enter the exit command.	
Examples	The following example shows how to edit virtual blade 2 and put your WAE into virtual blade configuration mode: <pre>WAE(config)# virtual-blade 2 WAE(config-vb)#</pre> The following example shows that the prompt changes to (config-vb) to indicate virtual blade mode. <pre>WAE(config-vb)# description This-is-my-virtual-blade-description WAE(config-vb)# exit WAE(config)#</pre>	
Related Commands	(config-vb) autostart (config-vb) boot	

(config-vb) description

(config-vb) device

(config-vb) disk

(config-vb) interface

(config-vb) memory

(config-vb) autostart

To set a virtual blade to automatically start when the WAE is started, use the **autostart** virtual blade configuration command. To prevent a virtual blade from starting automatically, use the **no** form of this command.

autostart

no autostart

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values.

Command Modes virtual blade configuration mode

Device Modes application-accelerator

Examples The following example shows how to configure virtual blade 2 to start automatically when the WAE restarts:

```
WAE(config)# virtual-blade 2
WAE(config-vb)# autostart
```

Related Commands

- [\(config-vb\) boot](#)
- [\(config-vb\) description](#)
- [\(config-vb\) device](#)
- [\(config-vb\) disk](#)
- [\(config-vb\) interface](#)
- [\(config-vb\) memory](#)

(config-vb) boot

To configure the boot image location and source for a virtual blade, use the **boot** virtual blade configuration command.

boot {**cd-image** {**cd-rom** | **disk** *location*} | **fd-image** **disk** *location* | **from** {**cd-rom** | **disk**}}

Syntax Description		
cd-image		Specifies the location of the boot CD-ROM image for the virtual blade. This image can be located on a CD in the WAE CD-ROM drive or an ISO file located on the WAE hard drive (for example, /local1/vbs/windows_2003.iso).
cd-rom		Specifies that the location is a CD-ROM drive.
disk <i>location</i>		Specifies a location on the WAE hard drive.
fd-image		Specifies the location of the boot floppy disk image for the virtual blade. This image file must be located on the WAE hard drive (for example, /local1/vbs/fdimage).
from		Specifies the source from which the virtual blade will boot. The boot source can be a CD image (defined by the boot cd-image command) or a floppy disk image.
disk		Specifies that the virtual blade boots from the file image defined by the boot fd-image command.

Defaults No default behavior or values.

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Device Modes application-accelerator

Usage Guidelines The floppy disk image and bootable CD-ROM image must be located in the /local1/vbs directory. The path used with the **boot cd-image disk** and **boot fd-image disk** commands must be /local1/vbs/*filename*. The CD-ROM image can be used to boot the operating system running on the virtual blade. The floppy disk image reserves resources for an emulated floppy disk drive on the virtual blade.

Examples The following example shows how to configure the CD-ROM ISO boot file location and the boot source for virtual blade 2:

```
WAE(config)# virtual-blade 2
WAE(config-vb)# boot cd-image disk /local1/vbs/windows_2003.iso
WAE(config-vb)# boot from cd-rom
```

The following example shows how to configure virtual blade 1 to boot from a CD-ROM located in the WAE optical drive:

```
WAE(config)# virtual-blade 1
```

(config-vb) boot

```
WAE(config-vb) # boot cd-image cd-rom
WAE(config-vb) # boot from cd-rom
```

Related Commands

[\(config-vb\) autostart](#)
[\(config-vb\) description](#)
[\(config-vb\) device](#)
[\(config-vb\) disk](#)
[\(config-vb\) interface](#)
[\(config-vb\) memory](#)

(config-vb) description

To enter a description for a virtual blade on your WAE, use the **description** virtual blade configuration command.

description *description-text*

Syntax Description

<i>description-text</i>	Text to briefly describe the virtual blade.
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Defaults

No default behavior or values.

Command Modes

virtual blade configuration mode

Device Modes

application-accelerator

Examples

The following example shows how to define the descriptive text for virtual blade 2 as “Windows Server 2003”:

```
WAE(config)# virtual-blade 2  
WAE(config-vb)# description Windows Server 2003
```

Related Commands

(config-vb) [autostart](#)
(config-vb) [boot](#)
(config-vb) [device](#)
(config-vb) [disk](#)
(config-vb) [interface](#)
(config-vb) [memory](#)

(config-vb) device

To set the device emulation parameters used by the virtual blade on your WAE, use the **device** virtual blade configuration command.

```
device {cpu {qemu64 | qemu32} | nic {rtl8139 | E1000 | virtio} | disk {IDE | virtio}}
```

Syntax Description

cpu	Specifies the CPU emulation to be used on the virtual blade.
qemu64	Specifies a 64-bit processor emulator.
qemu32	Specifies a 32-bit processor emulator
nic	Specifies the network interface card emulation to be used on the virtual blade.
rtl8139	Specifies a Realtek network card emulator.
virtio	Specifies a generic NIC emulator optimized for virtual machines.
disk	Specifies the type of hard drive emulation to be used on the virtual blade.
IDE	Specifies an IDE (ATA) type disk emulator.
virtio	Specifies a generic disk controller emulator optimized for virtual machines.

Defaults

The default values are as follows:

- **device cpu qemu64**
- **device nic rtl8139**
- **device disk IDE**

Command Modes

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application-accelerator

Examples

The following example shows how to set the device emulation parameters for virtual blade 2. The CPU emulator is set to qemu64, the NIC emulator is set to rtl8139, and the disk type emulator is set to IDE.

```
WAE(config)# virtual-blade 2
WAE(config-vb)# device cpu qemu64
WAE(config-vb)# device nic rtl8139
WAE(config-vb)# device disk IDE
```

Related Commands

(config-vb) [autostart](#)
 (config-vb) [boot](#)
 (config-vb) [description](#)
 (config-vb) [disk](#)

(config-vb) interface

(config-vb) memory

(config-vb) disk

To allocate disk space for a virtual blade on the WAE hard drive, use the **disk** virtual blade configuration command.

disk *space-allocation*

Syntax Description	<i>space-allocation</i>	Amount of disk space allocated for the virtual disk of the virtual blade in gigabytes. The range of valid values is from 1 to 1000.
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Defaults	No default behavior or values.
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Command Modes	virtual blade configuration mode
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Device Modes	application-accelerator
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Examples	The following example shows how to allocate 40 GB of disk space for virtual blade 2:
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```
WAE(config)# virtual-blade 2
WAE(config-vb)# disk 40
```

Related Commands	(config-vb) autostart (config-vb) boot (config-vb) description (config-vb) device (config-vb) interface (config-vb) memory
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(config-vb) interface

To bridge a virtual blade interface to an interface on your WAE, use the **interface** virtual blade configuration command.

```
interface vb-interface bridge { GigabitEthernet [slot]/[port] | PortChannel channel}
```

Syntax Description	<i>vb-interface</i>	Virtual blade interface to be bridged; valid values are 1 or 2.
	bridge	Specifies that a virtual blade interface will be bridged to a physical WAE interface.
	GigabitEthernet	Specifies a Gigabit Ethernet interface on the WAE. , and the port value is 0.
	<i>slot</i>	(Optional) Slot value is 1 or 2.
	<i>port</i>	(Optional) Port value is 0.
	PortChannel <i>channel</i>	Specifies a port channel interface on the WAE. The value is 1.

Defaults No default behavior or values.

Command Modes virtual blade configuration mode

Device Modes application-accelerator

Usage Guidelines The virtual blade requires bridging of its virtual interface to a physical interface on the WAE so that it can connect to the network and other services.

Examples The following example shows how to bridge interface 1 on virtual blade 2 to Gigabit Ethernet slot 2, port 0 on the WAE:

```
WAE(config)# virtual-blade 2
WAE(config-vb)# interface 1 bridge GigabitEthernet 2/0
```

Related Commands

- [\(config-vb\) autostart](#)
- [\(config-vb\) boot](#)
- [\(config-vb\) description](#)
- [\(config-vb\) device](#)
- [\(config-vb\) disk](#)
- [\(config-vb\) memory](#)

(config-vb) memory

To allocate memory for a virtual blade from the WAE system, use the **memory** virtual blade configuration command.

memory *memory-allocation*

Syntax Description

<i>memory-allocation</i>	Amount of memory allocated for the virtual memory of a virtual blade, in megabytes.
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Defaults

No default behavior or values.

Command Modes

virtual blade configuration mode

Device Modes

application-accelerator

Usage Guidelines

The amount of memory that can be allocated for a virtual blade depends on the amount of memory in your WAE or WAVE appliance, and on the amount of memory that is assigned to other virtual blades. The minimum amount of memory that you can allocate for a single virtual blade is 512 MB.

Examples

The following example shows how to allocate 4 MB of memory for virtual blade 2:

```
WAE(config)# virtual-blade 2
WAE(config-vb)# memory 4
```

Related Commands

[\(config-vb\) autostart](#)
[\(config-vb\) boot](#)
[\(config-vb\) description](#)
[\(config-vb\) device](#)
[\(config-vb\) disk](#)
[\(config-vb\) interface](#)