Cisco – Choosing and Upgrading Software for Cisco IOS Firew

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Introduction

Cisco IOS Firewall (formerly known as Cisco Secure Integrated Software) consists of a router running a specialized Cisco IOS® Software feature set that uses context–based access control (CBAC). Once you determine the platform type, the correct version of code, and whether or not the hardware meets the requirements of the software image, you can follow the upgrade procedure for your particular platform.

How Do I Know What Platform I Have?

Issue the **show version** command at the enable command prompt of the router to see the platform, RAM, Flash and current version of code you are running. In the following example, the platform is a Cisco 2600 router with 48 MB of RAM (43617 K + 5534 K), 16 MB of Flash (16384 K), and code image "flash:c2600–jk8s–mz.122–6.bin".

```
wilson#show version
Cisco Internetwork Operating System Software
IOS (tm) C2600 Software (C2600-JK8S-M), Version 12.2(6), RELEASE SOFTWARE (fc2)
Copyright (c) 1986-2001 by cisco Systems, Inc.
Compiled Wed 07-Nov-01 21:07 by pwade
Image text-base: 0x80008088, data-base: 0x814FF2C4

ROM: System Bootstrap, Version 11.3(2)XA3, PLATFORM SPECIFIC RELEASE SOFTWARE (fc1)

wilson uptime is 1 week, 2 days, 7 hours, 41 minutes
System returned to ROM by power-on
System image file is "flash:c2600-jk8s-mz.122-6.bin"

cisco 2611 (MPC860) processor (revision 0x202) with 43617K/5534K bytes of memory.
Processor board ID JAB03050692 (209339592)
M860 processor: part number 0, mask 49
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
TN3270 Emulation software.
2 Ethernet/IEEE 802.3 interface(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read/Write)

Configuration register is 0x2102

wilson#
```

How Do I Choose the Correct Version of Software?

The Software Advisor tool can be used to determine the appropriate Cisco IOS software image to download, based on feature set, release and platform. This tool is linked from Cisco TAC Tools for Security Technologies.

When you use Software Advisor, search the feature list for "Context–Based Access Control (CBAC)".

Note: To use Software Advisor, you must be a registered user and you must be logged in.

What Do Letters in the Image Name Mean?

Detailed information about software names can be found in .

As an example, a software image named "c2600–jk8o3s.12.2–7" is interpreted as follows.

- j = Enterprise subset
- k8 = Reserved for future encryption capabilities
- o3 = Firewall with ssh (36x0 26x0)
- s = NAT, IBM, MMP, VPDN/L2F, VOIP and ATM (for c2600)

Where Can I Download the Software?

Registered users who have logged in can download Cisco IOS Software from the Software Center, which is linked from Cisco TAC Tools for Security Technologies.

The feature set code for Cisco IOS Firewall includes the designation **FW** (for firewall) in the image name in the software area.

How Do I Upgrade the Software on My Router?

The upgrade procedure depends on the router platform. To find the upgrade procedure for the previously identified router platform, refer to the index of Software Installation and Upgrade Procedures.

Tools Information

For additional resources, refer to Cisco TAC Tools for Security Technologies.

Related Information

- **IOS Firewall in IOS Documentation**
- **More IOS Firewall Technical Tips**
- **IOS Firewall Product Support Page**

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