

Packet Tracer – Decoding IOS Image Names (Instructor Version)

Instructor Note: Red font color or Gray highlights indicate text that appears in the instructor copy only.

Topology



Objectives

Part 1: Naming Convention for IOS 12.4 Images

Part 2: Naming Convention for IOS 15 Images

Part 3: Use show version Command to Find IOS Images

Scenario

As a network technician, it is important that you are familiar with the IOS image naming convention so that you can, at a glance, determine important information about operating systems currently running on a device. In this scenario, Company A has merged with Company B. Company A has inherited network equipment from Company B. You have been assigned to document the features for the IOS images on these devices.

Part 1: Naming Convention for 12.4 Images

In the table below, you will find a list IOS 12.4 images. Decode the IOS image name by entering the appropriate information in each column.

IOS Images	Hardware	Feature Set	Train No.	Maintenance Release	Train Identifier	Rebuild Identifier
c1841-advipservicesk9-mz.124-24.T6.bin	1841	Advipservicesk9 (Advanced IP Services with strong encryption)	12.4	24	T	6
c1841-ipbasek9-mz.124-12.bin	1841	Ipbasek9 (Base IP Services with strong encryption)	12.4	12	M	
c2800nm-advipservicesk9-mz.124-15.T9.bin	2811	advipservicesk9	12.4	15	T	9
c2801-ipbasek9-mz.124-25f.bin	2801	ipbasek9	12.4	25	M	f
c2801-advsecurityk9-mz.124-18e.bin	2801	advsecurityk9 (Advanced Security with strong encryption)	12.4	18	M	e

What do the letters “mz” in the file name tell you about the file? The letter “m” indicates that the image is executed in Random Access Memory (RAM). The letter “z” indicates that the file is in a compressed format.

Part 2: Naming Convention for IOS 15 Images

In the table below, you will find a list IOS 15 images. Decode the IOS image name by entering the appropriate information in each column.

IOS Images	Hardware	Feature Set	Major Release	Minor Release	New Feature Release	Maintenance Release	Maintenance Rebuild
c1900-universalk9-mz.SPA.153-2.T.bin	1900	universal	15	3	2	T	
c1900-universalk9-mz.SPA.152-4.M2.bin	1900	universal	15	2	4	M	2
c2900-universalk9-mz.SPA.151-4.M4.bin	2900	universal	15	1	4	M	4
c2900-universalk9-mz.SPA.152-3.T3.bin	2900	universal	15	2	3	T	3

Part 3: Use show version Command to Find IOS Images

Access the routers in the topology. At the command prompt, issue the **show version** command on both routers and list the IOS image of each router in the table. Decode the IOS image name by entering the appropriate information in each column.

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IOS 12.4 Image	Hardware	Feature Set	Train No.	Maintenance Release	Train Identifier	Rebuild Identifier
c1841-advipservicesk9-mz.124-15.T1.bin	1841	Advipservicesk9	12.4	15	T	1

IOS 15 Image	Hardware	Feature Set	Major Release	Minor Release	New Feature Release	Maintenance Release	Maintenance Rebuild
c1900-universalk9-mz.SPA.151-1.M4.bin	1941	universal	15	1	1	M	4

Suggested Scoring Rubric

Activity Section	Possible Points	Earned Points
Part 1: Naming Convention for IOS 12.4 Images	30	
Part 2: Naming Convention for IOS 15 Images	20	
Part 3: Use show version Command to Find IOS Images	50	
Total Score	100	