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.

1. Topology



1. 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

1. 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.

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.

1. 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 |

1. 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.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |

1. 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** |  |