System Setup: Supplement

# Notes and References

The easiest way to build a consistent test system is to be aware of the release dates of the various software components that are installed. Table 1-2[[1]](#footnote-1) lists the release dates for the operating systems discussed in this text.

Table 1-2. List of Operating Systems, by Release Date

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Operating System | Version | Release |  | Operating System | Version | Release |
| Windows | 7 SP 1 | 2/2011 |  | Mint | 17 | 5/2014 |
| Windows Server | 2008 R2 SP1 | 2/2011 |  | CentOS | 7.0-1406 | 7/2014 |
| OpenSuSE | 11.4 | 3/2011 |  | CentOS | 5.11 | 9/2014 |
| CentOS | 5.6 | 4/2011 |  | CentOS | 6.6 | 10/2014 |
| Ubuntu | 11.04 | 4/2011 |  | Ubuntu | 14.10 | 10/2014 |
| Mint | 11 | 5/2011 |  | Mint | 17.1 | 11/2014 |
| CentOS | 6.0 | 7/2011 |  | OpenSuSE | 13.2 | 11/2014 |
| CentOS | 5.7 | 9/2011 |  | CentOS | 7.1-1503 | 3/2015 |
| Ubuntu | 11.10 | 10/2011 |  | Ubuntu | 15.04 | 4/2015 |
| Mint | 12 | 11/2011 |  | Mint | 17.2 | 6/2015 |
| OpenSuSE | 12.1 | 11/2011 |  | Windows | 10.1507 | 7/2015 |
| CentOS | 6.2 | 12/2011 |  | CentOS | 6.7 | 8/2015 |
| CentOS | 6.1 | 12/2011 |  | Ubuntu | 15.10 | 10/2015 |
| CentOS | 5.8 | 3/2012 |  | OpenSuSE | 42.1 | 11/2015 |
| Ubuntu | 12.04 | 4/2012 |  | Windows | 10.1511 | 11/2015 |
| Mint | 13 | 5/2012 |  | CentOS | 7.2-1511 | 12/2015 |
| CentOS | 6.3 | 7/2012 |  | Mint | 17.3 | 12/2015 |
| OpenSuSE | 12.2 | 9/2012 |  | Ubuntu | 16.04 | 4/2016 |
| Windows Server | 2012 | 9/2012 |  | CentOS | 6.8 | 5/2016 |
| Ubuntu | 12.10 | 10/2012 |  | Mint | 18 | 6/2016 |
| Windows | 8 | 10/2012 |  | Windows | 10.1607 | 8/2016 |
| Mint | 14 | 11/2012 |  | Windows Server | 2016 | 10/2016 |
| CentOS | 5.9 | 1/2013 |  | Ubuntu | 16.10 | 10/2016 |
| CentOS | 6.4 | 3/2013 |  | OpenSuSE | 42.2 | 11/2016 |
| OpenSuSE | 12.3 | 3/2013 |  | CentOS | 7.3-1611 | 12/2016 |
| Ubuntu | 13.04 | 4/2013 |  | Mint | 18.1 | 12/2016 |
| Mint | 15 | 5/2013 |  | CentOS | 6.9 | 2/2017 |
| CentOS | 5.10 | 10/2013 |  | Windows | 10.1703 | 4/2017 |
| Windows | 8.1 | 10/2013 |  | Ubuntu | 17.04 | 4/2017 |
| Windows Server | 2012 R2 | 10/2013 |  | Mint | 18.2 | 7/2017 |
| Ubuntu | 13.10 | 10/2013 |  | OpenSuSE | 42.3 | 7/2017 |
| OpenSuSE | 13.1 | 11/2013 |  | CentOS | 7.4-1708 | 9/2017 |
| CentOS | 6.5 | 12/2013 |  | Windows | 10.1709 | 10/2017 |
| Mint | 16 | 12/2013 |  | Ubuntu | 17.10 | 10/2017 |
| Ubuntu | 14.04 | 4/2014 |  | Mint | 18.3 | 11/2017 |

Sources:

* Windows release dates (including Service Packs) <http://windows.microsoft.com/en-us/windows/lifecycle>
* Windows 10 release information <https://technet.microsoft.com/en-us/windows/release-info.aspx>
* Windows Server 2008 Release dates (including service packs) <http://support.microsoft.com/lifecycle/search/default.aspx?sort=PN&alpha=Windows+Server+2008&Filter=FilterNO>
* Windows Server 2012 Release dates <http://support.microsoft.com/lifecycle/search/default.aspx?sort=PN&alpha=Windows+Server+2012&Filter=FilterNO>
* Windows Server 2016 Release dates <https://support.microsoft.com/en-us/lifecycle/search?alpha=Windows%20Server%202016>
* Ubuntu Release dates <https://wiki.ubuntu.com/Releases>
* Mint Release dates <http://distrowatch.com/table.php?distribution=mint>
* OpenSuSE Release dates <https://en.opensuse.org/Lifetime> and <https://en.opensuse.org/Portal:Leap>
* CentOS Release dates <http://en.wikipedia.org/wiki/CentOS>

Table 1-3 provides the release dates for Firefox. Old versions of Firefox can be downloaded from <https://ftp.mozilla.org/pub/mozilla.org/firefox/releases/>.

Table 1-3. Firefox Versions, by Release Date

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Firefox Version | Release Date | | Firefox Version | Release Date | | Firefox Version | Release Date |
| 4 | 3/2011 |  | 22 | 6/2013 |  | 40 | 8/2015 |
| 5 | 6/2011 |  | 23 | 8/2013 |  | 41 | 9/2015 |
| 6 | 8/2011 |  | 24 | 9/2013 |  | 42 | 11/2015 |
| 7 | 9/2011 |  | 25 | 10/2013 |  | 43 | 12/2015 |
| 8 | 11/2011 |  | 26 | 12/2013 |  | 44 | 1/2016 |
| 9 | 12/2011 |  | 27 | 2/2014 |  | 45 | 3/2016 |
| 10 | 1/2012 |  | 28 | 3/2014 |  | 46 | 4/2016 |
| 11 | 3/2012 |  | 29 | 4/2014 |  | 47 | 6/2016 |
| 12 | 4/2012 |  | 30 | 6/2014 |  | 48 | 8/2016 |
| 13 | 6/2012 |  | 31 | 7/2014 |  | 49 | 9/2016 |
| 14 | 7/2012 |  | 32 | 9/2014 |  | 50 | 11/2016 |
| 15 | 8/2012 |  | 33 | 10/2014 |  | 51 | 1/2017 |
| 16 | 10/2012 |  | 34 | 12/2014 |  | 52 | 3/2017 |
| 17 | 11/2012 |  | 35 | 1/2015 |  | 53 | 4/2017 |
| 18 | 1/2013 |  | 36 | 2/2015 |  | 54 | 6/2016 |
| 19 | 2/2013 |  | 37 | 3/2015 |  | 55 | 8/2017 |
| 20 | 4/2013 |  | 38 | 5/2015 |  | 56 | 9/2017 |
| 21 | 5/2013 |  | 39 | 6/2015 |  | 57 | 11/2017 |

Source: <https://wiki.mozilla.org/Releases/Old> and <https://wiki.mozilla.org/RapidRelease/Calendar>

Tables 1-4, 1-5 and 1-6 provide the release dates for Java 6, 7, and 8. Old versions of Java can be obtained from the Oracle Java Archive at <http://www.oracle.com/technetwork/java/archive-139210.html>. Users must sign on with Oracle before being permitted to download software.

Table 1-4. Java 6 Versions, by Release Date

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Java 6 Update | Release Date |  | Java 6 Update | Release Date |  | Java 6 Update | Release Date |
| U24 | 2/2011 |  | U31 | 2/2012 |  | U38 | 12/2012 |
| U25 | 3/2011 |  | U32 | 4/2012 |  | U39 | 2/2013 |
| U26 | 6/2011 |  | U33 | 6/2012 |  | U41 | 2/2012 |
| U27 | 8/2011 |  | U34 | 8/2012 |  | U43 | 3/2013 |
| U29 | 10/2011 |  | U35 | 8/2012 |  | U45 | 4/2013 |
| U30 | 12/2011 |  | U37 | 10/2012 |  |  |  |

Table 1-5. Java 7 Versions, by Release Date

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Java 7 Update | Release Date |  | Java 7 Update | Release Date |  | Java 7 Update | Release Date |
| U0 | 7/2011 |  | U10 | 12/2012 |  | U51 | 1/2014 |
| U1 | 10/2011 |  | U11 | 1/2013 |  | U55 | 4/2014 |
| U2 | 12/2011 |  | U13 | 2/2013 |  | U60 | 5/2014 |
| U3 | 2/2012 |  | U15 | 2/2013 |  | U67 | 8/2014 |
| U4 | 4/2012 |  | U17 | 3/2013 |  | U71 | 10/2014 |
| U5 | 6/2012 |  | U21 | 4/2013 |  | U75 | 1/2015 |
| U6 | 8/2012 |  | U25 | 6/2013 |  | U79 | 4/2015 |
| U7 | 8/2012 |  | U40 | 9/2013 |  |  |  |
| U9 | 10/2012 |  | U45 | 10/2013 |  |  |  |

Table 1-6. Java 8 Versions, by Release Date

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Java 8 Update | Release Date |  | Java 8 Update | Release Date |  | Java 8 Update | Release Date |
| U0 | 3/2014 |  | U51 | 7/2015 |  | U101 | 7/2016 |
| U5 | 4/2014 |  | U65 | 10/2015 |  | U111 | 10/2016 |
| U11 | 7/2014 |  | U71 | 1/2016 |  | U121 | 1/2017 |
| U25 | 10/2014 |  | U73 | 2/2016 |  | U131 | 4/2017 |
| U31 | 1/2015 |  | U77 | 3/2016 |  | U141 | 7/2017 |
| U45 | 4/2015 |  | U91 | 4/2016 |  | U151 | 10/2017 |

Sources: <https://www.java.com/en/download/faq/release_dates.xml>, [http://en.wikipedia.org/wiki/Java\_version\_history.](http://en.wikipedia.org/wiki/Java_version_history)

Both release dates and download links for old versions of Adobe Flash Player are available at <http://helpx.adobe.com/flash-player/kb/archived-flash-player-versions.html>. Between 2011 and 2017, there were some 236 different releases of Adobe Flash Player; as such the list is not included here.

VirtualBox has an ID for each virtual machine, and on OpenSuSE this is tied to the identifier for the hard drive. When a full clone of the system is made, a new ID is generated for the system and the hard drive, but the configuration files within OpenSuSE continue to refer to the old ID. As a consequence, the cloned system may not boot. One solution is before cloning the system to modify the file /etc/fstab and replace the labels there with their destinations; these can be found by examining /dev/disk/by-id/.

Between 2012 and 2016, development of Adobe Flash Player for Linux was held at version 11.2, adding only security fixes. This policy was changed in August 2016, and now the current version is available for Linux; these can be downloaded from Adobe Labs at <http://labs.adobe.com/downloads/flashplayer.html>. See also the original 2012 announcement <http://blogs.adobe.com/flashplayer/2012/02/adobe-and-google-partnering-for-flash-player-on-linux.html> and the subsequent 2016 announcement <http://blogs.adobe.com/flashplayer/2016/08/beta-news-flash-player-npapi-for-linux.html>.

When using gedit on CentOS systems as the root user stared from the command line (which is common during the configuration process of this chapter), the system may generate warnings of the form

(gedit:2629): Gtk-WARNING \*\*: Attempting to set the permissions of `/root/.local/share/recently-used.xbel', but failed: No such file or directory

These warnings can be prevented by creating the directory that the system is attempting to use through a command like the following.

[root@sabik ~]# mkdir -p /root/.local/share

Exercises

1. Build the desktop systems described in this chapter.
2. Use the ifconfig and route commands to manually and temporarily configure a Linux network adapter with a static address, netmask, and gateway.
3. Use the netsh command to change the DNS server for a network adapter on Windows. (c.f. <http://technet.microsoft.com/en-us/library/cc731521(v=ws.10).aspx>)
4. Use the command wmic qfe list to list the installed patches on a Windows system. Use the command wusa /uninstall /kb:<kbnumber> to uninstall a particular patch.

1. Tables and program listing numbers are continued from the main chapter. [↑](#footnote-ref-1)