**Day 09 Assignment**

**What is End of Life?**

An **end-of-life** is a date at which the product is at the end of its lifecycle, which prevents users from receiving updates, indicating that the product is at the end of its useful life. At this stage, a vendor stops the [marketing](https://en.wikipedia.org/wiki/Marketing), selling, or provisioning of parts, services, or software updates for the product. The vendor may simply intend to limit or end support for the product.

In simple terms, EOL stands for “end of life,” which occurs to hardware and software. It is the stage of a product in which it becomes outdated or unsupported by the manufacturer.

**What Happens When Something Reaches EOL?**

* Knowing what happens when a system reaches EOL allows you to better prepare for it.
* As a product approaches its EOL, you’ll typically get notifications for it. A popup may appear on your system stating that the software will lose manufacturer support on a certain date, or you may get an email about it.
* Different manufacturers have different timelines for this process, so it will vary.
* The biggest risk of a product reaching EOL is that it could open your system up to security breaches.

Example:

Cisco, a major technology provider, for instance, has [a helpful milestone table](https://www.cisco.com/c/en/us/products/eos-eol-policy.html) that lays out different dates where they offer certain levels of support. They typically issue notifications about six months before they stop selling a product. After the end-of-sale date, they may offer support and release maintenance patches for a specific number of years, but once that timeframe runs out, you’re on your own.

**What is the end of life in hardware?**

Typically, hardware reaches its end of life when it can’t keep up with the needs of new systems and software.

In end of life of hardware, The manufacturer

* stops production and sale of the hardware
* no longer provides standard support

**What is the end of life in software?**

EOL software may be outdated or may not work with modern hardware needs.

EOL software refers to software that has reached the end of its life, meaning the developer no longer offers support, updates, or patches for it. This status indicates that the software is considered outdated and should be replaced or upgraded to maintain security and efficiency.

**Preference of Specification**

So we decide about the preference of the specification depending on the sources

* **Direct Vendor:** We give the preference accordingly first if the product is from direct vendor and the vendors specify the End of Life.
* **End of Life From Third Party Vendor:** The second preference is given to the information of the end of life is from the third party vendors.
* **No End of Life from eighter Direct Vendor or Third Party Vendor:** No direct date or information is given about the EOL by any vendor.

**Task**

**Vendors and their Lifecycle Policies**

**1. Cisco** **:**

* Products:- Networking hardware (routers, switches), software (IOS, security applications)
* End Of Life:- External notification of end of sale is typically six (6) months before the End of Sale (“EOS”) date, which is the date after which you can no longer purchase the relevant Cisco Product.
* <Url:-> <https://www.google.com/search?q=https://www.cisco.com/c/en/us/support/eos-eol-policy.html>

**2. Oracle :**

* Products:- Enterprise software (databases, Java), hardware (servers)
* End of Life:- Oracle has a complex lifecycle policy with various phases and timelines depending on the product. They usually provide several years of support, but it's crucial to check the specifics.
* <url:-> <https://www.google.com/search?q=https://www.oracle.com/us/support/library/lifetime-support-policy-069183.html>

**3. Microsoft:**

* Product:- Software (Windows OS, Office Suite), Hardware (Surface devices, Xbox)
* End of Life:- Microsoft typically provides a lifecycle of at least 10 years for its products, with distinct phases:
* **Mainstream Support:** Includes new features, security updates, and non-security updates.
* **Extended Support:** Primarily security updates, with limited non-security updates.
* **End of Life:** No further updates or support.
* <url:-> <https://learn.microsoft.com/en-us/lifecycle/>

**States of End of Life:**

**1. End of life dated :** means the specific date after which a product, like a piece of software or hardware, will no longer receive support or updates from the manufacturer, essentially marking the end of its usable lifespan and signaling that users should plan to replace it with a newer version; it indicates the point where the product is considered obsolete and may become vulnerable to security risks due to lack of patches.

**2.** **EOL undated:** If a product is marked as EOL undated, it means it may stop receiving updates, security patches, or technical support in the future, but the company has not yet announced an official deadline.

* This often happens with widely used software, hardware, or components where the manufacturer is still deciding on the phase-out plan.

Examples:

* A cloud service marked EOL undated means it is planned for discontinuation, but the exact date is unknown.

**3. Support Dated:** Support Dated in the technical world refers to a product, software, or hardware having a defined support timeline provided by the manufacturer or developer. This means that the company has announced a specific date until which it will offer updates, security patches, bug fixes, and customer support.

Example: **Windows 10:**

* Mainstream support ended on October 13, 2020.

**4. Support Undated:** Support Undated means that a product, software, or hardware is still receiving support, but the manufacturer or developer has not specified an official end date for when support will stop.

Support could end at any time, depending on business decisions, technological advancements, or market demand.

**5. Unknown:** "Unknown" typically means that certain information—such as support status, end-of-life date, or update schedule—is not available, not disclosed, or not determined yet by the manufacturer or developer.