# **Computer Security**

Computer security is the discipline that is responsible for analyzing, planning and protecting an organization's assets related to computer systems.

Asset is a resource with a certain value for an organization, it can be data, equipment and/or services.

- · Identify the assets
- · Classify assets
- · Identify threats
- · Mitigate risks
- · Confidentiality, Integrity and Availability.
- "Security is not a product, it is a process"
  Bruce Schneier
- There is no such thing as 100% security

## Systems hardening

- Defense in Depth: Security layers must be applied, if a barrier is breached, the system will not be compromised.
- Minimum Exposure: System must use only components necessary for its designed function.
- Minimum Assigned Privilege: Assigned privileges must be strictly necessary to perform the assigned task.

## **Security Risks**

- Malware: Malicious software, viruses, worms, trojans, rootkits, keyloggers, backdoor, spam, phishing, spear phishing, hijacking, ransomware.
- Other Risks: Theft of credentials, leak of confidential data, theft of data or equipment, legal, loss of credibility or image.

### **Good practices**

- Design an Update application policy.
- Apply the principle of Least Privilege.
- Use appropriate user accounts for each task.
- Restrict the use of Privileged accounts.
- Design a physical access control plan.

#### Microsoft Windows Server

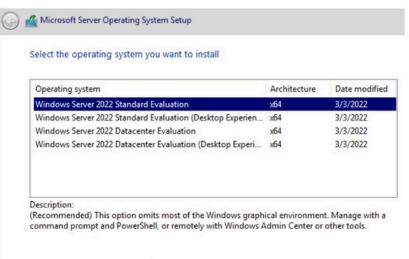
https://www.microsoft.com/en-us/windows-server

### Windows Server Evaluation Center

https://www.microsoft.com/en-us/evalcenter/evaluate-windows-server-2022

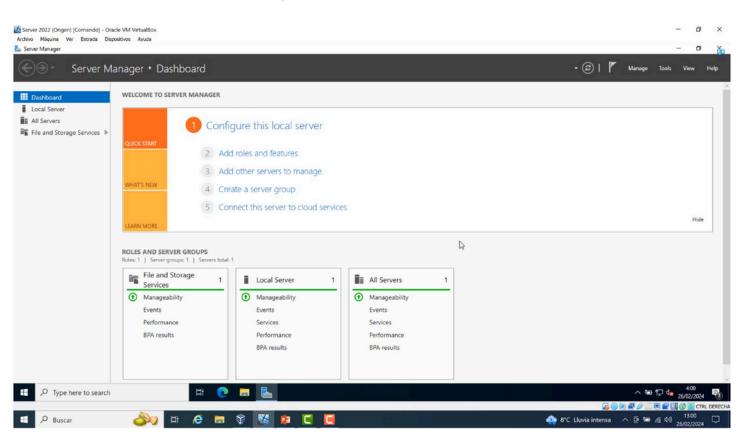
## **Getting started with Windows Server**

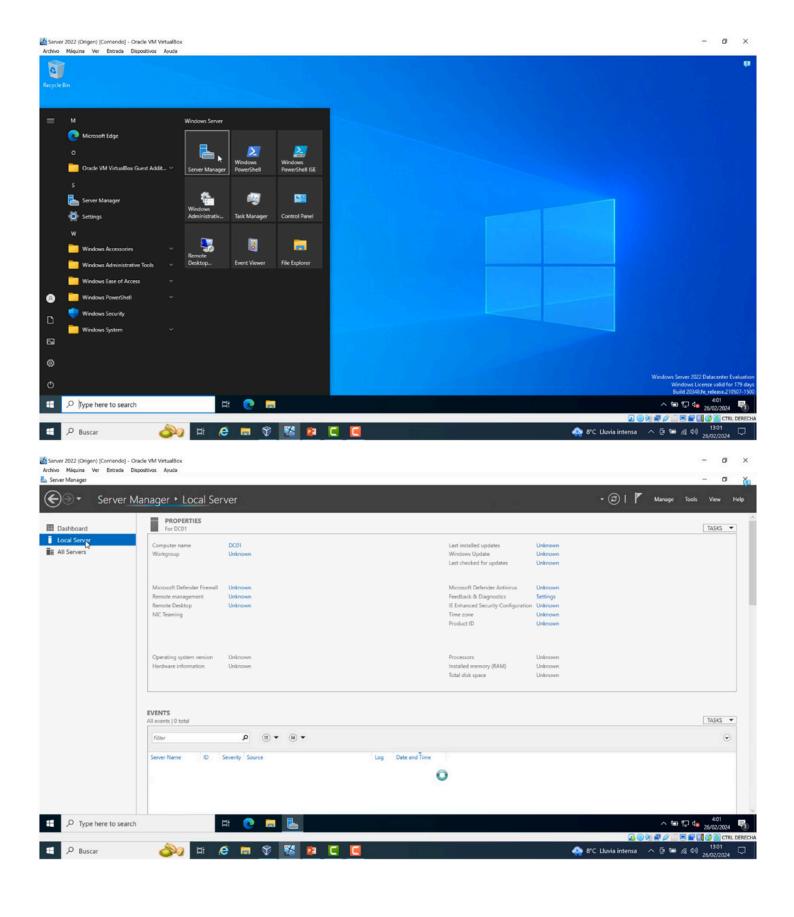
- Getting started with Microsoft Server Operating System Setup Windows Server
- What version to install?
  - Desktop Experience

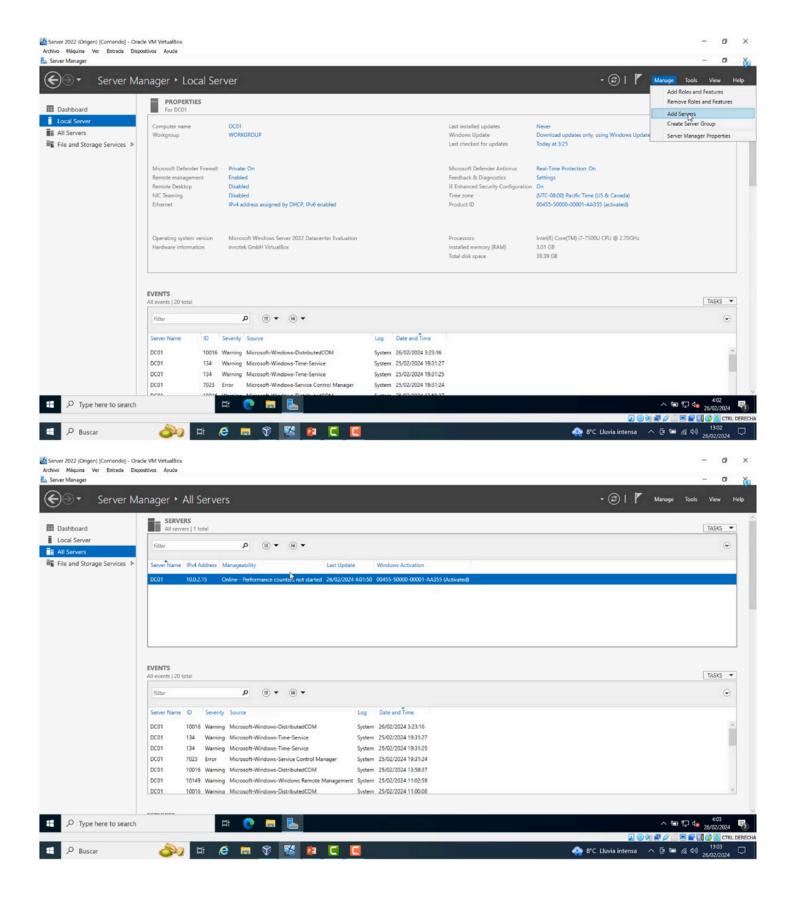


Pictures own elaboration









## **Conclusions**

It is important to plan computer security processes as something dynamic, with constant reviews and the application of improvements over time, identifying the organization's assets and the risks associated with these elements.

