Robotics Security Kickstart

Don't let your robots be the source of a breach

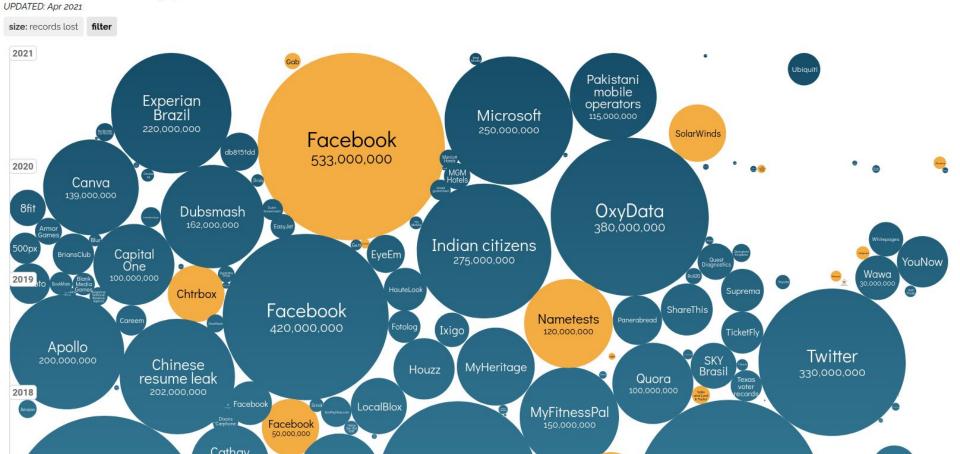


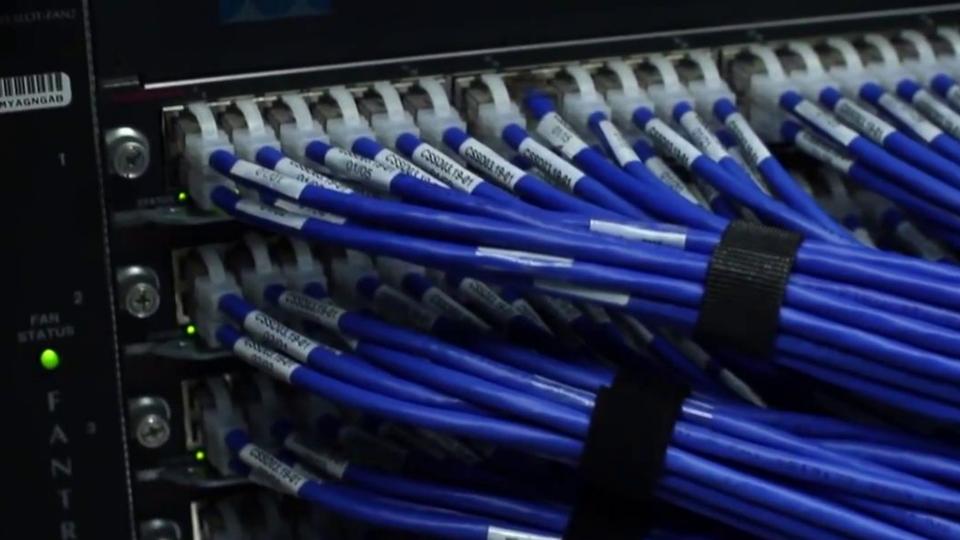
BRIDGE CHECKERS CHESS POKER FIGHTER COMBAT GUERRILLA ENGAGEMENT DESERT WARFARE AIR-TO-GROUND ACTIONS THEATERWIDE TACTICAL WARFARE THEATERWIDE BIOTOXIC AND CHEMICAL WARFARE GLOBAL THERMONUCLEAR WAR

World's Biggest Data Breaches & Hacks

interesting story

Selected events over 30,000 records





The CIS Top 20

https://www.cisecurity.org/



Cybersecurity Best Practices

Cybersecurity Tools

Cybersecurity Threats

Home • CIS Controls • The 20 CIS Controls & Resources

The 20 CIS Controls & Resources

Download all CIS Controls (PDF & Excel)

Click on a CIS Control below to learn details

Basic CIS Controls

- 1. Inventory and Control of Hardware Assets
- 2. Inventory and Control of Software Assets
- 3. Continuous Vulnerability Management
- 4. Controlled Use of Administrative Privileges
- Secure Configuration for Hardware and Software on Mobile Devices, Laptops, Workstations and Servers
- 6. Maintenance, Monitoring and Analysis of Audit Logs



Controls

security system

The ability to use a vulnerability to gain an advantage

Loss of value - could be monetary, personal, replacement cost, time-related, etc.

Prevent or detect compromise

The CIS Top 20

https://www.cisecurity.org/

The 20 CIS Controls & Resources

Download all CIS Controls (PDF & Excel) --->

Click on a CIS Control below to learn details

Basic CIS Controls

- 1. Inventory and Control of Hardware Assets
- 2. Inventory and Control of Software Assets
- 3. Continuous Vulnerability Management
- 4. Controlled Use of Administrative Privileges
- 5. Secure Configuration for Hardware and Software on Mobile Devices, Laptops, Workstations and Servers
- 6. Maintenance, Monitoring and Analysis of Audit Logs



Controls 1 and 2: Inventory and Control of Hardware & Software Assets



Main Points:

- Utilize an active discovery tool to identify devices connected to the organization's network and update the hardware asset inventory.
- Maintain an accurate and up-to-date inventory of all technology assets with the potential to store or process information. This inventory shall include all hardware assets, whether connected to the organization's network or not.
- Utilize software inventory tools throughout the organization to automate the documentation of all software on business systems.
- Utilize application whitelisting technology on all assets to ensure that only authorized software executes and all unauthorized software is blocked from executing on assets.

Controls 3:



Main Points:

- Utilize an up-to-date SCAP-compliant vulnerability scanning tool to automatically scan all systems on the network on a weekly or more frequent basis to identify all potential vulnerabilities on the organization's systems.
- Deploy automated software update tools in order to ensure that the operating systems are running the most recent security updates provided by the software vendor.

ESM for ROS



Support and security updates for ROS and Ubuntu

Backported security updates, CVE and bug fixes for ROS.

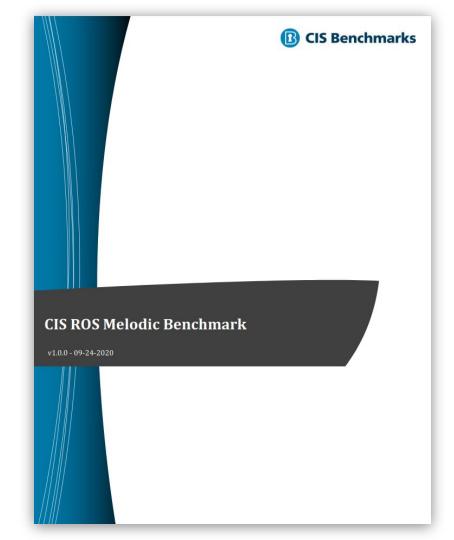


Extended Security Maintenance for a number of packages in the Ubuntu Main and Universe Repositories.



The ROS Benchmark

https://www.cisecurity.org/





Thank you