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Overview of Cybersecurity Landscape of 2023

Where are we today?

November 30, 2023

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- Networks are evolving to more locations, higher speeds and more devices.
- Connectivity is a part of every industry: Healthcare, Finance, Construction, Retail, Government, etc.
- Wireless rules the day.
- Ignorance, impatience and apathy are all around us.
- What could go wrong?

Welcome to the hyper-connected world!

It is always on

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- Physical threats remain an issue, insider threats with employees leaking, stealing or sharing data.
- Phishing or other social engineering attacks are evolving.
- Cyber Attacks: Ransomware, Malware, APT(Advanced Persistent Threats), DDOS(Denial of Service Attacks).
- Supply Chain - Vendors, partners, etc. have risks too.

The old threats are still with us

and aren’t going away

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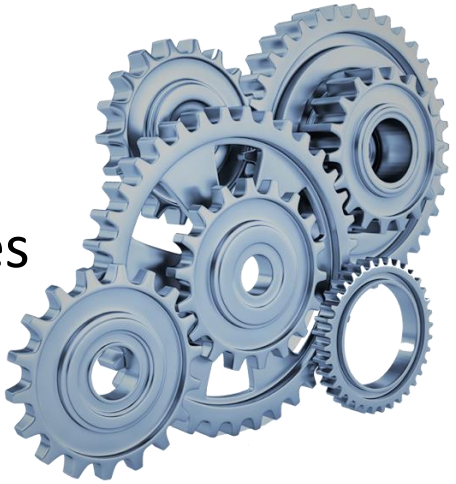
- Artificial Intelligence and Machine Learning (AI/ML) Mis/Dis information, Increased social capabilities, potential for bias are here now.
- 5G Networks – Attack surface increasing, a virtual decentralized network and devices - exponentially more (Critical Infrastructure, Internet of Things, Autonomous Vehicles).
- Quantum Computing – potential to exploit encryption vulnerabilities; cryptography for a post-quantum world.
- Edge Computing – Bandwidth/Latency impact security capabilities.
- Cloud Security – Access control, Identity management, Insecure Interfaces and APIs(Application Programming Interface), Configuration.
- Staffing/Training – Insider threats are always an issue, but shortages are creating a costly environment for organizations as they fight for talent.



Threats are growing

And likely won't stop anytime soon!

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Organizations today are increasing the pace of IT/OT convergence. What does this mean?

- Information Technology or IT allows for communication with remote assets.
- Operations Technology or OT impacts the physical world (physical assets, people, data, etc.). Often with decades of deployment.

Something new is going on or off!

Growing Threat Landscape

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This leads to often dramatic impacts in many industries:

- Smart Cities/Smart Military Bases
- Connected Communities
- Smart Buildings and Warehouses
- Smart Fleets, Logistics, Inventories, etc.
- Autonomous Vehicles
- Smart Agriculture

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Operational Capabilities are exploding:

- Cities can control traffic, air quality, public safety
- Monitor video surveillance, alarms, grant access, etc.
- Control HVAC, monitor water or power usage
- Vehicle location, status, etc.
- Monitor soil, rainfall, temperature, etc.
- We can turn lots of things on or off

We can do so much more now

But so can they!

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1. Guard the perimeter
2. Limit access
3. Have surveillance of assets and record it
4. Use authentication at change points
5. Extra security/scrutiny for administrative capabilities
6. Segment access
7. Strictly enforce policies and procedures (constantly train)

Have physical and virtual security plans

Some things are consistent

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- Work with experts
- Have a plan
- Spend a few minutes each day on cybersecurity and you will do better than most!

For great support go to: [Home Page | CISA]

Active Cyber Attacks

Let the Machines do it

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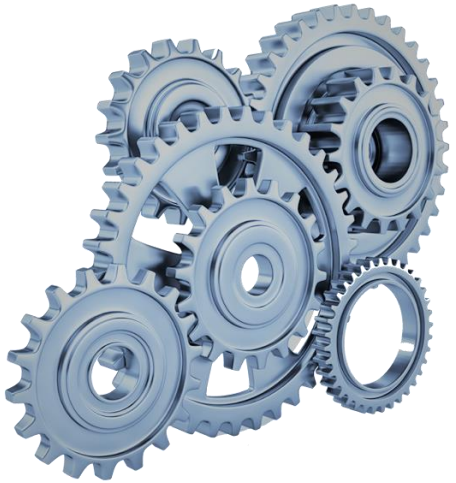

Reach out to us!

Let's start a conversation to see how SherpaWerx can help you.