Threats, Attacks and a Path Forward - 2022

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Agenda

Current threats

Attack landscape

The path forward

Current Threats

United States of America: Annual Threat Assessment

Key cybersecurity takeaways from the 2022 Annual Threat Assessment:

- Adversaries remain persistent, advanced and bold in attacks and campaigns
- Key sectors are persistent targets, while motives and methods may vary
  - Critical Infrastructure (Utilities)
  - Transportation
  - Telecommunications/Technology
  - Information (Media and Journalism)
  - Academia
  - Government
  - Defense

Expanded threats with new technologies

Attack surface expansion

- Remote workforce
- Operational technologies
- Cloud, datacenter and on-premise systems

Identity threat detection and response

- Credential theft
- Credential based attacks

Digital Supply Chain Risk

Attack landscape

Verizon Data Breach Report 2022 by sector

Critical Infrastructure (Utilities)

1. Social Engineering
2. System Intrusion
3. Basic Web Application attacks

Telecommunications/Technology

1. System Intrusion
2. Basic Web application attacks
3. Social Engineering

Information (Media and Journalism)

1. System Intrusion
2. Basic Web Application attacks
3. Miscellaneous errors

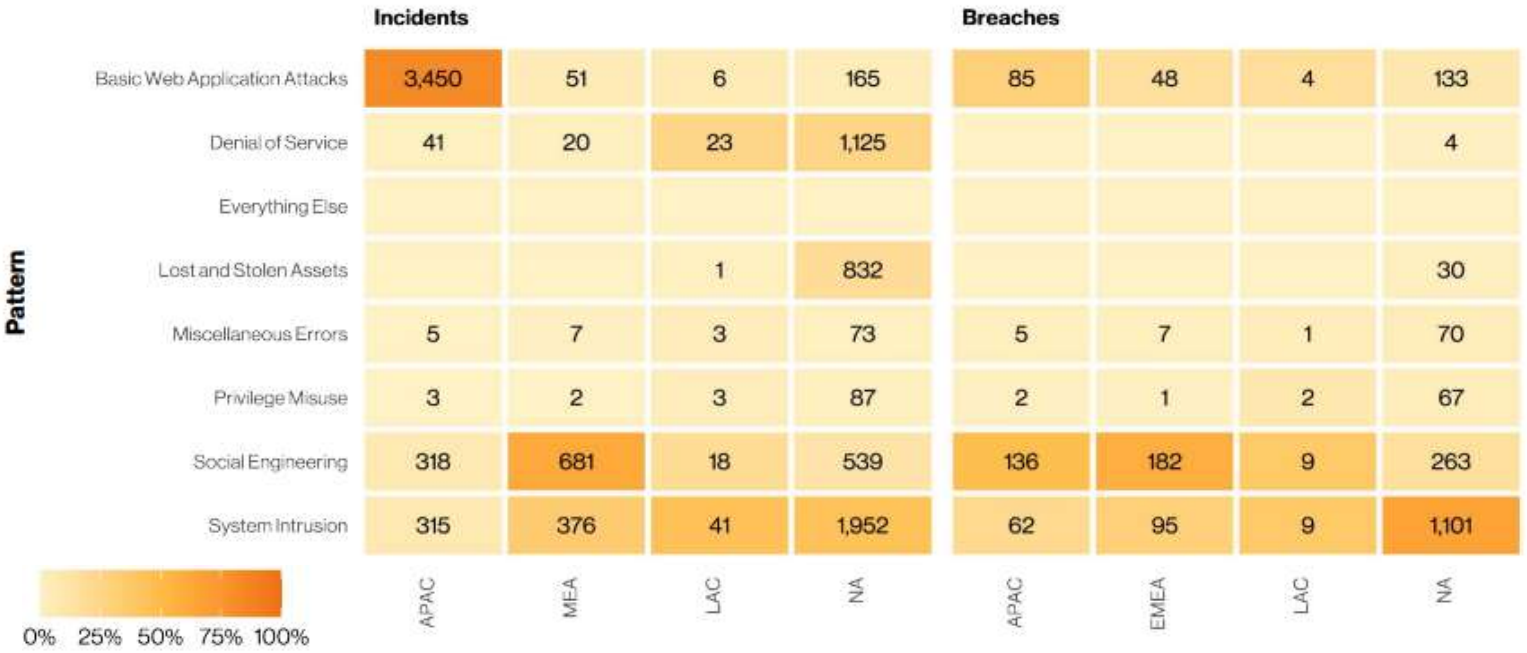
Academia

1. System Intrusion
2. Basic Web Application attacks
3. Miscellaneous errors

Government

1. System Intrusion
2. Miscellaneous errors
3. Basic Web Application attacks

Verizon Data Breach Report 2022 by region



Source: Verizon.com

But what about...

Ransomware…

Supply chain attacks…

Cryptocurrency…

Internet of Things…

And so on…

The path forward

Security controls that apply

Center for Internet Security (CIS) Critical Controls

- Access Control Management
- Account Management
- Secure Configuration of Enterprise Assets and Software
- Security Awareness and Skills Training

Source: cisecurity.org

Looking into the future

New products and services may ease implementation of security measures

Technology shifts

- Vendor consolidation
- Cybersecurity mesh

Changes of practice

- Culture of security
- Risk decision distribution

Source: keyfactor.com

If you would like to know more

https://www.dni.gov/files/ODNI/documents/assessments/ATA-2022-Unclassified-Report.pdf

https://www.verizon.com/business/resources/T1d7/reports/dbir/2022-data-breach-investigations-report-dbir.pdf

https://www.cisecurity.org/

https://www.keyfactor.com/blog/what-you-need-to-know-about-cybersecurity-mesh/