



Cybersecurity for Nebraska



Protecting Local Businesses in the Digital Age



OVERVIEW

01

What is
Cybersecurity

02

Common Security
Threats

03

Internal Security
Threats

04

How to Stay Safe in
the Digital Space

05

Your Options



What Is Cybersecurity?

Why does my business need it?



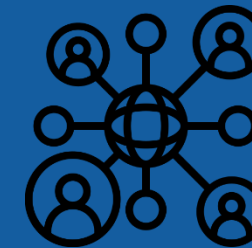
PROTECTION

Protects Network
Traffic In & Out



FILTERS

Filters out attacks, ransomware,
and unwanted snooping on data



SEGMENT NETWORKS

Can segment a network into multiple
sections, restricting communication
between them for security



COMPLIANCE

Helps businesses stay compliant with
cybersecurity regulations (e.g., HIPAA,
PCI DSS, GDPR) or financial
transactions.



PREVENTION

Prevents external
access to internal
network traffic



DEFENSE

Defends against hackers, DDoS
attacks, and unauthorized access to
private and secure information

Antivirus



INDIVIDUAL DEVICES

Works on individual devices rather than the entire network



SCANS FILES

Scans files for malicious code and security threats



REMOVES MALWARE

Identifies and removes viruses, worms, trojans, ransomware, & spyware



SHUTS DOWN PROGRAMS

Can shut down compromised programs from sending or receiving data



DETECTS & REMOVES THREATS

Actively scans the system and hard drive to detect and eliminate threats before they cause damage.

Working Together

A **firewall** acts as the **airport security checkpoint**—it screens passengers (data traffic) before they reach the gate, blocking unauthorized access and potential threats *before they enter*.

Antivirus is like the **flight crew and Air Marshal**—once inside the airplane (your system), they monitor for suspicious activity, remove threats, and ensure everything runs safely.



Protect Your Business

In December 2024, the Lincoln-based credit union Liberty First reported a data breach that may have affected 52,496 people. The attackers claimed to have stolen 254 GB of sensitive data, including client databases, passports, and financial records.

Intellectual Property

Client Information

Financial & Banking Information

System & Network Credentials

Business & operational Data

Approximately **40% of law firms** reported experiencing a security breach within the year (2023) - Among firms that experienced breaches, **56% lost confidential client data.**
Source.

February 21, Change Healthcare, one of the largest healthcare technology companies in the U.S. was hit with a cyberattack affecting Nebraska Hospitals:

- Prior authorizations for pharmaceuticals, procedures, and surgeries
- Insurance verification for inpatient stays
- Precise cost estimates for patients
- Patient billing.