

# Microsoft Cloud Security Gap Analysis: CIS Top 20

## Mapping M365 to CIS Top 20

Healthcare Organizations need to understand the security risk they incur when shifting their office and patient experiences to the cloud; new security controls need to be implemented to reduce the risk. The question becomes, "what are those risks" and how do I mitigate them? This is where CompuNet can assist with creating a roadmap based on the **CIS Top 20** and our engineering expertise to facilitate a shift to the cloud while still maintaining security around your data, PII, apps, and workloads.

## Why a Cloud Security Assessment?

Cloud Providers provide a certain level of security out of the box, however truly secure cloud environments are a shared responsibility between the healthcare customer and the cloud provider. By leveraging CompuNet, armed with CIS top 20 controls and its team of experts, they can advise on what controls to leverage inside the Microsoft suite as well as when to leverage 3<sup>rd</sup> party solutions.

## Why CIS Top 20?

The Center for Internet Security Critical Security Controls are a recommended set of actions for defense that provide specific and actionable ways to stop today's most pervasive attacks. They were developed and are maintained by a consortium of hundreds of security experts from across the public and private sectors. An underlying theme of The Controls is support for large-scale, standards-based security automation for the management of cyber defenses.

Measuring an organization's security policies and controls against The Controls establishes an action plan and allows leaders to prioritize resources on the most effective security measures first. This gap analysis evaluates each control and assigns a value of: In Place, In Development, or No Control.

CompuNet has expertise in delivering successful Microsoft 365, Azure and on-premises Microsoft solutions as well as industry-standard security assessments for our customers. We focus on modernization of processes and the technology enabling it. A positive user experience is our top priority. Our expertise in Microsoft 365 and Azure, networking, security and change management allows us to provide you with the confidence that our solutions will be well-planned, effective and tailored to your company's specific requirements.

### CIS Controls™

#### Basic

- 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

#### Foundational

- 7 Email and Web Browser Protections
- 8 Malware Defenses
- 9 Limitation and Control of Network Ports, Protocols, and Services
- 10 Data Recovery Capabilities
- 11 Secure Configuration for Network Devices, such as Firewalls, Routers and Switches
- 12 Boundary Defense
- 13 Data Protection
- 14 Controlled Access Based on the Need to Know
- 15 Wireless Access Control
- 16 Account Monitoring and Control

#### Organizational

- 17 Implement a Security Awareness and Training Program
- 18 Application Software Security
- 19 Incident Response and Management
- 20 Penetration Tests and Red Team Exercises

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