# IT SECURITY BEST PRACTICES CHECKLIST



#### **Education and Awareness**

	nost regular employee cybersecurity awareness education and training	
	Periodically conduct blind phishing tests with varying complexity	
	Assess at-risk employees and provide remediation training that targets their specific	
	security weaknesses	
User	Access / Network and Remote Access	
	Use Multi-Factor Authentication (MFA) for network access	
	Use Multi-Factor Authentication (MFA) for remote access	
	Have a password policy in place that meets password length/complexity requirements	
	Restrict access to passwords and accounts based on who needs access and for how	
	long	
	Have access to logging for sensitive resources and systems administration	
	Have a group policy set to lock workstations after 10 minutes of inactivity	
	Have administrative and account access controls in place to ensure protection against insider threats	
	Allow only company-owned and managed devices to access the corporate network	
	Minimize mobile users' needs to access your organization's network infrastructure	
	Enable mobile users to perform most of their work with Software as a Service (SaaS) tools <sup>1</sup>	
	Allow secure <sup>2</sup> remote access to the company network only for specific roles and from company devices	
	Implement content filtering	
	Implement Geo-IP blocking on the firewall if the site has servers or a VPN published to the Internet <sup>3</sup>	
	Disable USB ports for external drive use or implement USB encrypted portable storage devices	
Wi-Fi Networks and Internet Filtering		
	Use an internal company network Wi-Fi connection and only allow company-owned devices to connect	
	Use a company Wi-Fi guest network for all non-company-owned devices (employee	
	personal & guest)	
	Utilize Internet perimeter protection including content filtering to block malicious or	
	inappropriate web traffic	
	Block the "uncategorized" category of websites to further minimize risk	
Devi	ce OS and Encryption	
	Encrypt all devices including laptops, desktops, and mobile devices	
	Password-protect all devices	
	Ensure all devices are running supported OS and current firmware	

# IT SECURITY BEST PRACTICES CHECKLIST

Mob	ile Device Management (MDM) Implement a Mobile Device Management (MDM) solution <sup>4</sup>
Ema	
	Use company email addresses only for company business Use multi-factor authentication for email access Implement third-party spam, virus quarantine service Use cloud-based commercial-grade email hosting Implement a Sender Policy Framework (SPF) record to check email sending host Implement Domain Keys Identified Mail (DKIM) to authenticate email source Implement Domain-based Message Authentication, Reporting and Conformance (DMARC) to fully utilize SPF and DKIM and act on false emails
Antiv	virus/Intrusion Detection
	Implement next-generation endpoint protection solution <sup>5</sup> Utilize intrusion detection software on all systems
Secu	rity Operations and Governance
	Have Computer and Internet Use Policy in place
	Proactively manage computer and software security updates, utilizing patch automation and reporting tools
	Consider a Security Information & Event Management (SIEM) system to consolidate computer security logs and help your security team review and investigate events
	Implement Security Operations Center (SOC) as a Service to analyze and act on SIEM- generated alerts
	Scan all machines for Personally Identifiable Information (PII)
	Subscribe to dark web scans looking for organization credential compromises Purchase cybersecurity Insurance
Disa	ster Recovery
	Establish and exercise a Business Continuity Plan
	Establish and exercise a Cybersecurity Incident Response Plan Repeatedly test the performance of the above plans and refine their policies and protocols as needed
Back	
	Identify recovery options that permit your organization to "undo" events and resume normal operations <sup>7</sup>
	Add to your SaaS providers' recovery offerings with 3rd-party solutions for higher confidence and flexibility <sup>8</sup>
	Account for your recovery option's Recovery Time Objective (RTO) <sup>9</sup> and Recovery Point Objective (RPO) <sup>10</sup>
	Ensure that your recovery option meets your organization's RTO and RPO needs <sup>11</sup>

### IT SECURITY BEST PRACTICES CHECKLIST

#### **Footnotes**

- 1. Users should be able to access SaaS applications using just an Internet connection and their secure organization identity.
- 2. Secure the remote access connection via authenticated HTTPS tunneling (such as via Windows Virtual Desktop) or Virtual Private Networking (VPN) plus Remote Desktop Protocol (RDP).
- 3. Geo-IP blocking on a firewall is only relevant if the site has servers or a VPN published to the Internet; best practice is the corporate network should not have servers publishing to the Internet.
- 4. The MDM solution should, at minimum, provide the administrator with the capability to enforce a passcode, lock, and remotely erase the device or business information residing on the device.
- 5. Utilize a cloud-managed whitelist of known safe applications that can run on an endpoint.
- 6. Identify tools that are critical for daily, weekly, monthly, quarterly, and yearly operations.
- 7. Identify recovery options for each critical asset and business tool that enable your organization to restore system operating states or business information to points in time prior to damage, corruption, or loss.
- 8. Many SaaS providers include a basic level of recovery with their service, but many other SaaS providers exclude your organization's specific data from their recovery plans.
- 9. Recovery Time Objective (RTO); the time required to complete a recovery option and resume operations.
- 10. Recovery Point Objective (RPO); how frequently recovery points are established, and how long they are retained.
- 11. An economic target for most organizations of 25 to 75 people is a 6-hour RPO and 24-hour RTO for critical transaction/processing solutions, a 24-hour RPO and 48-hour RTO for e-mail or online file service solutions, and a 7-day RPO and 14-day RTO for archived and seldom-referenced content.