

The Basic Cyber Security Requirements Needed to Obtain Cyber Insurance

Insurance carriers increasingly require companies to implement basic cyber security practices to qualify for coverage.

These requirements are not universal across all carriers; in some cases, a company can secure coverage without all these requirements. But aligning to these requirements will ensure a company gets both the most and best-priced market coverage options.

Please Note: These basic requirements are applicable to smaller and lower risk organizations. Organizations that are larger (\$20mn+ revenue) or deemed higher risk for cyber attacks should refer to our "Cyber Security Requirements Needed to Obtain Cyber Insurance For Larger/Higher Riskier Organizations" guide.

The Basic Requirements Checklist:

(B)	EMAIL SECURITY
	Turn on Multifactor Authentication for all users of the email system
	Recommended but not required:
	Deploy an email protection solution to prescreen emails.

	 BACKUPS Deploy offsite or cloud backups for all critical data and systems Assure those critical systems, applications and processes can 		Recommended but not required: Deploy an endpoint detection and response (EDR) solution
	recover in 10 days or less Recommended but not required: Use backups that continuously test restore to a virtual machine Use "immutable backups" that cannot be changes		SECURITY AWARENESS TRAINING Recommended but not required: At least annually, do security awareness training for all employees At least annual training for executives and key accounting on fraudulent transfer schemes
	NETWORK SECURITY Deploy Multi-factor Authentication (MFA) for all admin access and on any remote access	0-0-0	PROCESSES AND PROCEDURES FOR WIRES AND FUNDS TRANSFERS:
	PATCHING Recommended but not required: Have a formal 30-day patching cadence, with critical and zero-day patching applied within seven days.		Put in place controls that require all funds and wire transfers over \$25k to be authorized and verified by at least two employees before execution Recommended but not required: Prevent unauthorized employees from initiating wire transfers
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ENCRYPTION If the applicant is a retailer, restaurant, or online retailer, deploy end-to-end or point-to-point encryption on all point-of-sale (POS) terminals Recommended but not required:		Verify vendor/supplier bank accounts before adding them to accounts payable systems Require out-of-band authentication before the execution of all electronic payments
	Encrypt all sensitive information at rest Encrypt all sensitive information on mobile devices & laptops		



The Cyber Security Best Practices to Obtain Cyber Insurance for Larger and Higher Risk Organizations

Insurance carriers increasingly look for and even require companies to implement specific cybersecurity practices to qualify for coverage.

These requirements are not universal across all carriers; sometimes, a company can secure coverage without all these requirements. But aligning to these best practices will ensure a company gets the most and best-priced market coverage options.

Please Note: These best practices are applicable for larger organizations (\$20mn+ revenue) or deemed higher risk for cyber attacks or those with prior cyber incidents. Smaller or lower-risk organizations should refer to our "Basic Cyber Security Requirements Needed to Obtain Cyber Insurance" guide for the basic requirements.

The Expanded Cyber Security Best Practices Checklist:

(B)	EMAIL SECURITY		CLOUD AND DATA PROTECTION
	Turn on Multifactor Authentication for all users of the email system		If you use a cloud provider to store data and host applications, ensure they
	Tag external emails to alert employees that a message originates from outside the organization		are large, reputable, and have proper controls. (AWS, Azure, Google)
			Use MFA to secure all cloud provider services
	Deploy an email protection solution to prescreen emails.		Encrypt all sensitive and confidential data on your systems and networks
	Deploy a specific email security provider		Where that is not possible, segment servers with sensitive and confidential
	Recommended solutions include: Avanan, Barracuda, Cisco, Microsoft Defender, Mimecast, Proofpoint, SonicWall, Symantec, Trend Micro, or similar solution Deploy an email security solution to automatically detonate and evaluate all attachments in a sandbox to determine if they are malicious before delivery Implement the following to protect against phishing messages: Sender Policy Framework (SPF), Domain Keys Identified Mail (DKIM), and Domain Based Message Authentication Reporting and Confirmation (DMARC) Remove access or enforce MFA for all email access on the web application or non-corporate devices If you use Microsoft Office 365, Enable the Advanced threat protection to add on		data and put in place access control with role-based assignments
			Remove all remote access to your networks or use MFA to secure all remote access, including any RDP
			AUTHENTICATION AND MFA
			Deploy Multi-factor Authentication (MFA) for all admin access and privileged accounts
			Deploy MFA on any remote access, including any RDP connections
			Use a reputable and trusted MFA provider
			 Recommended Solutions include: Auth0, Duo, LastPass,Okta, &
			OneLogin Use an MFA type that is ideally not SMS or push-based
			Ensure that your MFA configuration is set up such that the compromise of a single device will only compromise a single authenticator
			Deploy a privileged account management software
			 Recommended solutions include: CyberArk & BeyondTrust
			Monitor all administrator access for unusual behavior patterns

	ASSET TRACKING AND		PATCHING	
	CONFIGURATIONS Deploy hardened baseline	Tint /	Implement a vulnerability management tool	
	configurations across all servers, laptops, desktops, and managed mobile devices		 Recommended solutions include: Insight/VM/Rapid7, Nessus/ Tenable, & Qualys 	
	Record and track all software and hardware assets deployed across the networks		Have a formal 30-day patching cadence, with critical and zero-day patching applied within seven days.	
	BACKUPS		Remove all end-of-life or end-of- support software • If not possible, segment these from	
	Deploy offsite or cloud backups for all critical data and systems		the rest of the network	
	Assure those critical systems, applications and processes can recover in 10 days or less		APPLICATION SECURITY	
	Use backups that continuously test		Remove all local admin rights from all non-IT users	
	restore to a virtual machine to assure the integrity and viability of the backups		Remove the ability to run Microsoft Office Macro-enabled documents on their system by default	
	Encrypt your backups		Use endpoint application isolation	
	Use "immutable backups" that cannot be changes		and containment technology on all endpoints	
			Recommended tools include:	
PE	Use protective DNS to block access to known malicious websites		Implement PowerShell best practices as outlined in the Environmental Recommendations by Microsoft	
	Recommended tools include	_		
	ZScaler, Quad6, and OpenDNS)	0,000	ENCRYPTION	
	MONITORING AND RESPONSE		₩ J	If the applicant is a retailer, restaurant, or online retailer, deploy
	Utilize a SIEM of SOC Solution		end-to-end or point-to-point encryption on all point-of-sale (POS)	
	Have an outsourced SOC Monitored 24-7		terminals	
	Z+-/		Recommended but not required:	
			Encrypt all sensitive information at rest	
			Encrypt all sensitive information on mobile devices & laptops	

	ENDPOINT SECURITY Deploy an endpoint detection and response (EDR) solution
	Recommended solutions include: Use an EDR solution that provides for centralized monitoring and logging of all endpoint activity across your enterprise
	Enforce application whitelisting/blacklisting
	Deploy EDR across 100% of endpoints, including mobile devices and BYOD, if they can access the corporate network
35	SECURITY AWARENESS TRAINING
	At least annually, do security awareness training for all employees that include social engineering and phishing simulation

At least annual training for executives and key accounting on fraudulent

transfer schemes



Put in place controls that require all funds and wire transfers over \$25k to be authorized and verified by at least two employees before execution
Prevent unauthorized employees from initiating wire transfers
Verify vendor/supplier bank accounts before adding them to accounts payable systems
Require out-of-band authentication before the execution of all electronic payments



For more info: