



The CIS Critical Security Controls (previously known as the SANS Top 20 security controls) provide a catalog of prioritized guidelines and steps for resilient cyber defense and information security mitigation approaches. Developed by the Center for Internet Security, the set of recommended actions have been assessed and endorsed by leading federal and law-enforcement authorities including the U.S. Department of Homeland Security Federal Network Security Program, the U.S. National Security Agency, the US Department of Energy nuclear energy labs and several other think-tanks. This document describes how Sophos, with its proven-in-the-field security technologies, offers effective tools to help address some of the requirements as part of a customer's efforts to comply with CIS Critical Security Controls.

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CIS CRITICAL SECURITY CONTROLS	SOPHOS SOLUTION	HOW IT HELPS
Control 1: Inventory and Control of Enterprise Assets Actively manage (inventory, track, and correct) all enterprise assets (end-user devices, including portable and mobile; network devices; non- computing/Internet of Things (IoT) devices; and servers) connected to the infrastructure physically, virtually, remotely, and those within cloud environments, to accurately know the totality of assets that need to be monitored and protected within the enterprise.	Sophos Cloud Optix	Provides accurate inventories and network topologies visualizations of an organization's cloud resources across all production environments including hosts, containers, serverless, IAM, network security groups and more while adding additional visualizations for traffic flows, and deployment of Sophos Cloud workload agents and Sophos virtual firewalls within the environment. With inventory in place, Cloud Optix scans cloud resources for security misconfigurations, profiling any alerts by risk level to help teams focus on the priority areas, and provide detailed remediation guidance to fix those issues.

Control 2: Inventory and Control of Software Assets Actively manage (inventory, track, and correct) all software (operating systems and applications) on the network so that only authorized software is installed and can execute, and that unauthorized and unmanaged software is found and prevented from installation or execution.	Sophos Firewall	Offers visibility into risky users, evasive and unwanted applications, and suspicious payloads. Synchronized Application Control automatically identifies unknown, evasive, and custom applications running on your netwo so you can easily prioritize the ones you want, and block the ones you don't.
	Sophos Intercept X Sophos Intercept X for Server	Enforces web, data, and device policies to allow only authorized applications to be run, devices to be connected and data to b distributed.
	Sophos Intercept X for Server	Integrates server application whitelisting/lockdown with advanced anti-malware and HIPS that lets you whitelist your applications at the click of a button and permits only trusted applications.
	Sophos Intercept X for Mobile	Detects malicious and potentially unwanted applications installed on Android devices using Intercept X deep learning technology alongside intelligence from SophosLabs global research team. Integration with Microsoft Intune allows administrators to build conditional access policies, restricting access to applications and data when a threat is detected.
Control 3: Data Protection Develop processes and technical controls to identify, classify, securely handle, retain, and dispose of data.	Sophos Cloud Optix	Public cloud security benchmark assessments proactively identify shared storage services (e.g. Amazon S3), hard drive snapshots, and databases without encryption enabled, or with public access enabled and ports exposed. Guided remediation then instructs the administrator on how to protect these services and data at rest.
	Sophos Zero Trust Network Access	Continuously validates user identity, device health, and compliance before granting access to applications and data.
	Sophos Central Device Encryption	Enables protection of devices and data with full disk encryption for Windows and macOS. Verify device encryption status and demonstrate compliance.
	Sophos Mobile	Encrypts documents within a secure container on a mobile device managed with Sophos Mobile. Sophos Secure Workspace can dynamically encrypt content sent to cloud-based storage services and applications. It enables enforcement of device encryption and monitors compliance relative to encryption policy.
	Sophos Email	Automatically scans message bodies and attachments for sensitive data, allowing you to easily establish policies to block or encrypt messages with just a few clicks.
		Offers TLS encryption and support for SMTP/S along with push-based encryption to send encrypted emails and attachments as password protected documents direct to the user's inbox, full portal-based pull encryption to manage encrypted message entirely from a secure portal, and S/MIME to encrypt email messages and add a digital signature to safeguard against email spoofing.

Control 4: Secure Configuration of Enterprise Assets and Software	Sophos Firewall	Enables role-based administration for delegating secure network security management; blocks traffic, services, ports, and protocols except those explicitly allowed and defined as appropriate and necessary for the organization.
Establish and maintain the secure configuration of enterprise assets (end-user devices, including portable and mobile; network devices; noncomputing/IoT devices; and servers) and software (operating systems and applications).		Administrators are instructed to change the default password of the "admin" user immediately after deployment. An alert is displayed when the default password for the super administrator is not changed.
	Sophos Cloud Optix	Continuously monitors and detects drift in configuration standards, and prevents, detects, and automatically remediates accidental or malicious changes in resource configuration.
		DevSecOps tools work seamlessly with existing DevOps processes to help prevent security breaches pre-deployment.
		Sophos Cloud Optix scans container images in ECR, ACR, Docker Hub registries, as well as GitHub and Bitbucket IaC environments to identify operating system vulnerabilities and fixes to prevent threats pre-deployment. Prevents Infrastructure-as-Code (IaC) templates containing insecure configurations as well as embedded secrets and keys from never making it to a test or live production environment.
	Sophos Central	Disables or removes default passwords. Passwords are sufficiently complex to withstand targeted "brute force" attacks and must be rotated periodically.
	Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
	Sophos Intercept X	Endpoint Protection application control policies restrict the use of unauthorized applications.
	Sophos Intercept X for Server	Device Control allows admins to control the use of removable media through policy settings.
		Anti-exploit, anti-ransomware, and deep learning malware detection protect endpoints from malicious executable code.
	Sophos Intercept X with XDR	Detect and investigate across endpoint, server, firewall, and other data sources. Get a holistic view of your organization's cybersecurity posture with the ability to drill down into granular detail when needed. The Sophos Data Lake allows to quickly answer business critical questions, correlate events from different data sources and take even more informed action.
Control 5: Account Management	Sophos Firewall	Facilitates two-factor authentication for VPN connections, with granular RADIUS/TACACS integration.
Use processes and tools to assign and manage authorization to credentials for user accounts,	Sophos Central	Protects privileged and administrator accounts with advanced two-factor authentication.
including administrator accounts, as well as service accounts, to enterprise assets and software.		Keeps access lists and user privileges information up to date. Provides procedures to ensure that access rights are revoked if individuals no longer meet the conditions to receive access (e.g., because they change position or leave the company).
	Sophos Cloud Optix	Monitors AWS/Azure/GCP accounts for Root user and IAM user access with MFA disabled so you can address and ensure compliance.
	Sophos Email	Delivers granular control of data breach prevention policies, including multi-rule policies for groups and individual users with seamless integration of encryption. Create custom CCLs using Sophos Content Control Lists or customize out of the box templates for specific CCLs. Choose from a variety of policy outcomes including block, drop attachment, quarantine as well as log and continue mode.
	Sophos Mobile	A rich set of device management capabilities, containers, and market-leading encryption keeps sensitive business email and documents protected on mobile devices – even for users working with personal devices.
		Flexible compliance rules monitor device health and can automatically deny access to sensitive data in case of a compromised device.
	Sophos Zero Trust Network Access	Validates user identity, device health, and compliance before granting access to resources.

Control 6: Access Control Management Use processes and tools to create, assign, manage, and revoke access credentials and privileges for user, administrator, and service accounts for enterprise assets and software.	Sophos Cloud Optix	Adopt the principle of least privilege across public cloud environments with Sophos Cloud Optix, Cloud Security posture Management solution. The SaaS based service connects disparate actions with Sophos AI to pinpoint unusual access patterns and locations to cloud provider consoles in near real time to identify credential misuse or theft. It includes an IAM visualization tool that provides a complete map of IAM relationships and allows teams to quickly and easily identify over-privileged access and create right-sized IAM policies before they are exploited in cyberattacks.
	Sophos Central	Protects privileged and administrator accounts with advanced two-factor authentication. Keeps access lists and user privileges information up to date. Provides procedures to ensure that access rights are revoked if individuals no longer meet the conditions to receive access (e.g., because they change position or leave the company).
Control 7: Continuous Vulnerability Management Develop a plan to continuously assess and track vulnerabilities on all enterprise assets within the enterprise's infrastructure, in order to remediate, and minimize, the window of opportunity for attackers. Monitor public and private industry sources for new threat and vulnerability information.	Sophos Intercept X Sophos Intercept X for Server	Integrates innovative technology like deep learning, anti-exploit, and anti-adversary into malicious traffic detection with real-time threat intelligence to help prevent, detect, and remediate threats with ease across all devices and platforms.
	Sophos Intercept X with XDR	Detects and investigates across endpoint, server, firewall, and other data sources. Get a holistic view of your organization's cybersecurity posture with the ability to drill down into granular detail when needed. The Sophos Data Lake allows to quickly answer business critical questions, correlate events from different data sources and take even more informed action.
	Sophos Cloud Optix	Cloud Optix enables organizations to design public cloud environments to meet Amazon Web Services, Microsoft Azure, and Google Cloud Platform security best practice standards and maintain them. This agentless service continually monitors public cloud resources, providing the visibility to proactively identify unsanctioned activity, vulnerabilities, and misconfigurations.
		Comprehensive asset inventory and network visualizations of security groups, cloud workloads, share storage, databases, IAM roles and more
		 Automatic identification of security best practice and compliance gaps leaving organizations exposed, with guided remediation.
		Continuously monitor compliance with custom or out-of-the box templates and audit-ready reports for standards such as FFIEC, GDPR, HIPAA, PCI DSS, and SOC2.
		Integrate security in the DevOps CI/CD pipeline to scan container images and infrastructure-as-code templates and more to block vulnerabilities pre-deployment.
	Sophos Managed Threat Response (MTR)	Helps to proactively hunt threats 24x7 and neutralize even the most sophisticated threats with Sophos' managed detection and response services backed by an elite team of threat hunters and response experts who take targeted actions on your behalf.
	Sophos Rapid Response Service	Enables fast assistance, identifying and neutralizing active threats against your organization – delivered by an expert team of incident responders.
	Synchronized Security in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls.

Control 8: Audit Log Management Collect, alert, review, and retain audit logs of events that could help detect, understand, or recover from an attack.	Sophos Intercept X with XDR	Goes beyond the endpoint, pulling in rich network, email, cloud and mobile data sources to give you an even broader picture of your cybersecurity posture with the ability to drill down into granular detail when needed. With data from each product flowing into the Sophos Data Lake you can quickly answer business critical questions, correlate events from different data sources and take even more informed action.
	Sophos Firewall	Allows real-time insights into network and user events, quick and easy access to historical data, and easy integration with third-party remote management and monitoring tools (RMMs).
	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response
Control 9: Email and Web Browser Protections Improve protections and detections of threats from email and web vectors, as these are opportunities for attackers to manipulate human behavior through direct engagement.	Sophos Firewall	Offers advanced Web Malware Protection with its advanced technology like real-time JavaScript emulation, behavioral analysis, context sensitive inspection, and dynamic URL analysis for both HTTP and HTTPS traffic.
	Sophos Email	Employs the latest antivirus and phishing detection technology that constantly updates in real-time to detect the latest threats. Reputation filtering blocks unwanted spam right at the gateway.
	Sophos Intercept X Sophos Intercept X for Server	Prevents malware before it can execute with heuristic evaluation, traditional signature matching with known malware, file reputation scoring, emulation, sandboxing, and more. Scans web content and allows category-based web filtering to be enforced both on and off the corporate network.
	Sophos Intercept X for Mobile	Web filtering and URL checking stops access to known bad sites on mobile devices, while SMS phishing detection spots malicious URLs.
Control 10: Malware Defenses Prevent or control the installation, spread, and execution of malicious applications, code, or scripts on enterprise assets.	Sophos Intercept X Sophos Intercept X for Server	Integrates innovative technology like deep learning, anti-exploit, and anti-adversary into malicious traffic detection with real-time threat intelligence to help prevent, detect, and remediate threats with ease across all devices and platforms.
	Sophos Firewall	Leverages Sophos' industry-leading machine learning technology (powered by SophosLabs Intelix) to instantly identify the latest ransomware and unknown threats before they get on your network. Delivers advanced protection from the latest drive-by and targeted web malware, URL/Malicious site filtering, Web Application Filtering, Cloud-based filtering for offsite protection.
	Sophos Sandboxing	Complements Sophos web and email security products and Sophos Firewall by inspecting and blocking executables and documents containing executable content before the file is delivered to the user's device.
	Sophos Intercept X for Mobile	Detects malicious and potentially unwanted applications installed on Android devices using Intercept X deep learning technology alongside intelligence from SophosLabs global research team. Integration with Microsoft Intune allows administrators to build conditional access policies, restricting access to applications and data when a threat is detected.
	Sophos Managed Threat Response	Incorporates vulnerability intelligence to provide customers with proactive security posture improvements.
Control 11: Data Recovery Establish and maintain data recovery practices sufficient to restore in-scope enterprise assets to a pre-incident and trusted state.	Sophos Intercept X Sophos Intercept X for Server	Includes rollback to original files after a ransomware or master boot record attack. Provides forensic-level remediation by eradicating malicious code as well as eliminating nasty registry key changes created by malware.

Control 12: Network Infrastructure Management Establish, implement, and actively manage (track, report, correct) network devices, in order to prevent attackers from exploiting vulnerable network services and access points.	Sophos Firewall	Limits access between untrusted devices and critical servers with segmentation of the internal network and by applying policies, adding a layer of protection and logging to disrupt the attack chain. Enables role-based administration for delegating secure network security management; blocks traffic, services, ports, and protocols except those explicitly allowed and defined as appropriate and necessary for the organization. Enables administrators to block or limit traffic to certain external systems with port-based or app-based policies. Lateral Movement Protection, a Synchronized Security feature, prevents the threat or hacker from spreading to other systems, stealing data, or communicating back to the host.
	Sophos Managed Threat Response	Monitors and investigates detections from Sophos network, endpoint, and cloud platform solutions to identify, investigate, contain, and neutralize active threats.
Control 13: Network Monitoring and Defense Operate processes and tooling to establish and maintain comprehensive network monitoring and defense against security threats across the enterprise's network infrastructure and user base.	Sophos Firewall	Allows real-time insights into network and user events, quick and easy access to historical data, and easy integration with third-party remote management and monitoring tools (RMMs).
	Sophos Managed Threat Response	Monitors and investigates detections from Sophos network, endpoint, and cloud platform solutions to identify, investigate, contain, and neutralize active threats.
	Sophos Intercept X with XDR	Goes beyond the endpoint, pulling in rich network, email, cloud and mobile data sources to give you an even broader picture of your cybersecurity posture with the ability to drill down into granular detail when needed. With data from each product flowing into the Sophos Data Lake you can quickly answer business critical questions, correlate events from different data sources and take even more informed action.
Control 14: Security Awareness and Skills Training Establish and maintain a security awareness program to influence behavior among the workforce to be security conscious and properly skilled to reduce cybersecurity risks to the enterprise.	Sophos Phish Threat	Educates and tests end users against phishing, credential harvesting, or attachment attacks, through automated attack simulations, quality security awareness training, and actionable reporting metrics.
Control 15: Service Provider Management Develop a process to evaluate service providers who hold sensitive data, or are responsible for an enterprise's critical IT platforms or processes, to ensure these providers are protecting those platforms and data appropriately.	Sophos Intercept X with XDR	Provides comprehensive defense in depth against threats that get in via third party suppliers using AI, exploit prevention, behavioral protection, anti-ransomware and more. Plus, powerful XDR functionality enables you to automatically identify suspicious activity, prioritize threat indicators, and quickly search for potential threats across your endpoint and servers.
	Sophos Managed Threat Response (MTR)	Delivers expert threat hunting and remediation as a fully-managed service. Sophos specialists work around the clock to proactively hunt for, validate, and remediate potential supply chain threats and incidents on your behalf.
	Sophos Zero Trust Network Access	Safeguards against supply chain attacks that rely on supplier access to your systems via very granular access controls. This cloud-delivered solution validates user identity, and device health and compliance before granting access to resources. It authenticates requests from trusted partners, irrespective of the location.
Control 16: Application Software Security Manage the security life cycle of in-house developed, hosted, or acquired software to prevent, detect, and remediate security weaknesses before they can impact the enterprise.	Sophos Intercept X Sophos Intercept X for Server	Blocks vulnerabilities in applications, operating systems, and devices with its exploit prevention capabilities.
	Sophos Cloud Optix	DevSecOps tools work seamlessly with existing DevOps processes to help prevent security breaches pre-deployment. Sophos Cloud Optix scans container images in ECR, ACR, Docker Hub registries, as well as GitHub and Bitbucket IaC environments to identify operating system vulnerabilities and fixes to prevent threats pre-deployment. Prevents Infrastructure-as-Code (IaC) templates containing insecure configurations as well as embedded secrets and keys from never making it to a test or live production environment.

Control 17: Incident Response and Management Establish a program to develop and maintain an incident response capability (e.g., policies, plans, procedures, defined roles, training, and communications) to prepare, detect, and quickly respond to an attack.	Sophos XDR	Goes beyond the endpoint, pulling in rich network, email, cloud and mobile data sources to give you an even broader picture of your cybersecurity posture with the ability to drill down into granular detail when needed. With data from each product flowing into the Sophos Data Lake you can quickly answer business critical questions, correlate events from different data sources and take even more informed action.
	Sophos Managed Threat Response	Proactively hunt threats 24x7 and neutralize sophisticated threats with our managed detection and response services backed by an elite team of threat hunters and response experts who take targeted actions on your behalf.
	Sophos Rapid Response Service	Get fast assistance, identifying and neutralizing active threats against your organization – delivered by an expert team of incident responders.
	Sophos Cloud Optix	Scans cloud resources for security misconfigurations, profiling any alerts by risk level to help teams focus on the priority areas, and provide detailed remediation guidance to fix those issues.
Control 18: Penetration Testing Test the effectiveness and resiliency of enterprise assets through identifying and exploiting weaknesses in controls (people, processes, and technology), and simulating the objectives and actions of an attacker.	Security Consulting	Sophos offers penetration testing and vulnerability assessment of security infrastructure and software deployments; and recommendations for architecture and design changes needed to better use the available infrastructure.
	Sophos Cloud Optix	Allows security teams to focus on and fix their most critical public cloud security vulnerabilities before they are identified and exploited in cyberattacks. By identifying and risk-profiling security, compliance, and cloud spend risks, Cloud Optix enables teams to respond faster, providing contextual alerts that group affected resources with detailed remediation steps.

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