



Cybersecurity: A vital element of every IT job

Information security is a major concern of every organization around the world. With the continually rising threat of cyber attacks, organizations of all sizes seek ways to ensure the security of their systems.

Having knowledgeable and skilled IT staff is a vital element to building and maintaining secure systems.

CompTIA certifications help ensure your IT staff has the validated skills necessary to protect your organization.

While rising in popularity, CompTIA Security+ isn't the only CompTIA certification that covers this essential IT need.

Cybersecurity knowledge and skills are key components embedded throughout the wide range of CompTIA certifications.

% IN SECURITY DOMAIN

 Security+	 PenTest+	 CySA+	 CASP+	 ITF+	 A+
100%	100%	100%	100%	33%	50%
 Network+	 Linux+	 Server+	 Cloud+	 Data+	 DataSys+
50%	40%	50%	50%	20%	50%

Every IT professional, regardless of their job role, needs to be at the top of their game when it comes to cybersecurity.

For more information about the security domains covered in CompTIA certifications, visit: [CompTIA.org/Certifications](https://www.comptia.org/Certifications)

In 2022, the average total cost of a data breach was **\$4.35 million.**

This number increases for organizations with less advanced security processes, like formal incident response teams.

Average time to identify and contain a data breach is **277 days.**

Companies that adopt a zero trust security model, build a robust incident response plan, and employ certified staff save **\$2 million** annually in cyber crime costs.

CompTIA CYBERSECURITY CERTIFICATION PORTFOLIO

The following CompTIA vendor-neutral certifications ensure your IT staff has the validated skills necessary to protect your organization.

CERTIFICATION	RELEVANCE TO CYBERSECURITY	COMPETENCIES
	CompTIA IT Fundamentals (ITF+) introduces individuals to the exciting world of Information Technology. The certification covers the essential IT skills and knowledge needed by entry-level IT professionals.	<ul style="list-style-type: none">• Identify common programs and their purpose• Understand basic security threats• Use security best practices• Use web-browsing best practices
	All cyber investigations, forensics, and cyber law enforcement activities rely on a fundamental understanding of computer hardware, networks, and systems. CompTIA A+ certification validates that fundamental understanding and skills.	<ul style="list-style-type: none">• Identify cybersecurity threats• Configure operating system security• Understand security best practices• Troubleshoot common security issues
	In our increasingly interconnected world, secure digital networks are essential. CompTIA Network+ certification prepares IT professionals to build, manage, and protect the critical asset that is the data network.	<ul style="list-style-type: none">• Understand networking services and applications• Use appropriate network monitoring tools• Understand network security vulnerabilities and remedies
	CompTIA Security+ certification is 100% focused on Cybersecurity. It is the industry standard that validates the baseline skills necessary to perform core security functions and pursue an IT security career.	<ul style="list-style-type: none">• Assess security posture of an enterprise environment• Monitor and secure hybrid environments• Operate with an awareness of principles of governance, risk, and compliance• Identify, analyze, and respond to security events and incidents
	CompTIA PenTest+ is for cybersecurity professionals tasked with penetration testing and vulnerability management. It is the most comprehensive exam on the market covering all penetration testing stages.	<ul style="list-style-type: none">• Plan and scope a penetration testing engagement• Understand legal and compliance requirements• Using appropriate tools and techniques, analyze results• Produce a written report proposing remediation techniques• Communicate results to the management teams
	CompTIA Cybersecurity Analyst (CySA+) is a certification for cybersecurity professionals tasked with incident detection, prevention, and response through continuous security monitoring. CompTIA CySA+ helps you demonstrate your skills in detecting and analyzing indicators of malicious activity using the most up-to-date methods and tools, such as threat intelligence, SIEMs, and EDR/XDRs.	<ul style="list-style-type: none">• Detect and analyze indicators of malicious activity• Understand threat hunting and threat intelligence concepts• Use appropriate tools and methods to respond to attacks and vulnerabilities• Perform incident response processes• Understand reporting and communication concepts related to vulnerability management and incident response activities
	CompTIA Advanced Security Practitioner (CASP+) is an advanced-level cybersecurity certification for security architects and senior security engineers charged with leading and improving an enterprise's cybersecurity readiness. It is the only hands-on certification for practitioners – not managers – at the advanced skill level of cybersecurity.	<ul style="list-style-type: none">• Architect, engineer, integrate, and implement secure solutions across complex environments• Use monitoring, detection, incident response, and automation to proactively support ongoing security operations in an enterprise environment• Apply security practices to cloud, on-premises, endpoint, and mobile infrastructure• Consider the impact of governance, risk, and compliance requirements
	CompTIA Linux+ validates the competencies required of an early career systems administrator supporting Linux systems.	<ul style="list-style-type: none">• Perform security administration tasks• Set up host security• Secure data with encryption
	CompTIA Server+ is a global certification that validates the hands-on skills of IT professionals who install, manage and troubleshoot servers in data centers as well as on-premise and hybrid environments.	<ul style="list-style-type: none">• Install and configure server operating systems• Understand physical security methods and concepts• Implement data security methods and secure storage disposal techniques
	CompTIA Cloud+ is a global certification that validates the skills needed to deploy and automate secure cloud environments that support the high availability of business systems and data.	<ul style="list-style-type: none">• Understand various cloud delivery models and services• Understand network and storage security concepts, tools, and best practices• Understand various encryption
	CompTIA Data+ is an early-career data analytics certification for professionals tasked with developing and promoting data-driven business decision-making.	<ul style="list-style-type: none">• Data governance, reports, quality and security controls• Security requirements around data encryption, data transmission, and de-identify data/data masking• Applying basic statistical methods
	CompTIA DataSys+ is a foundational level data management certification that focuses on the logistics of data administration and security.	<ul style="list-style-type: none">• Database security and back ups• Business continuity around disaster recovery and system security plans• Security management and maintenance patches

For a complete list of CompTIA certification exam objectives, visit: [CompTIA.org/Certifications](https://www.comptia.org/Certifications)