GCA Cybersecurity Toolkit™ For Elections

Free, Effective Tools to Reduce Cyber Risk

SECURE ELECTIONS, SECURE DEMOCRACY

Free and fair elections are a critical part of the democratic process. As recent events around the world have shown, online attacks pose serious risks to the integrity of democratic elections.

Elections Toolkit Objectives:

> **Safeguard people's ability to vote**

> **Ensure all votes are accurately recorded and counted**

> **Protect the integrity of the election system**

Government entities responsible for securing local, state, and national elections face significant challenges in today's increasingly interconnected world with pervasive cyber threats. We recognize that Election Officials and their technical support teams are working hard to secure our election infrastructure. We are pleased to provide an additional resource to assist Elections Offices with the release of the **GCA Cybersecurity Toolkit for Elections**.

FREE TOOLS AND RESOURCES, ALL IN ONE PLACE

The GCA Cybersecurity Toolkit for Elections is a free online resource that enables election offices and other groups to access and implement the latest cybersecurity protections. These free and effective tools can be used right now, today, to make an immediate impact on reducing cyber risk.

The toolkit has been assembled to help implement the recommendations in *A Handbook for Elections Infrastructure Security*. In this document, the Center for Internet Security, Inc. (CIS®), working with elections offices, elections associations and vendors, as well as academia has established a set of best practices for securing the systems that comprise our elections infrastructure.

The tools are organized into toolboxes based on the challenges they address. Each tool is described in a way that makes it as easy as possible for people with no basic cybersecurity knowledge to understand the risks and select the right tools.

Sponsored by Craig Newmark Philanthropies

EXPLORE THE TOOLKIT
gcatoolkit.org/elections

THE TOOLS

The following tools are now available in the GCA Cybersecurity Toolkit for Elections. The toolkit will evolve with more tools and resources.

KNOW WHAT YOU HAVE
Devices and Applications

- NMAP
- USB Use Policy
- Inventory Tool
- Open-Audit

CONFIGURE SECURELY
Implement Secure Benchmarks

- CIS Webserver Benchmarks
- CIS Browser Benchmark
- CIS Apple macOS Benchmarks
- CIS Mobile Benchmarks

CONTROL ACCESS
Understand User Privileges

- PacketFence
- OpenNAC

UPDATE YOUR DEFENSES
Systems, Applications and Devices

- BitLocker for Microsoft Windows Servers
- OpenVAS
- ITarian Patch Management
- FileVault for Mac
- Cyber Readiness Institute Patching Policy
- Auto-Update Android
- Auto-Update iOS
- Auto-Update Windows 10
- Auto-Update OSX
- Auto-Update Windows 7
- Auto-Update MS Office on OSX
- Qualys Community Edition

BEYOND SIMPLE PASSWORDS
Passwords and Two-Factor Authentication

- LastPass
- 1Password
- Have I Been PWNED?
- Cyber Readiness Institute Authentication Policy
- Why Password Reuse is Dangerous
- How to Create Strong Passwords
- Turn on 2FA for Your Accounts
- Authy
- Yubico Authenticator
- Microsoft Authenticator
- Google Authenticator for iPhone and iPad
- Google Authenticator for Android

PREVENT PHISHING AND VIRUSES
DNS Filters, Anti-Virus and Ad Blockers

- Cyber Readiness Institute Phishing Policy
- Quad9
- Microsoft Defender
- Avast for Windows
- AVG for Windows
- Avast for Mac
- AVG for Mac
- Avast for Android
- AVG for Android
- Mobile Working - Staying Safe on the Go!
- Web Woes - Pesky Pop-Ups!
- Mastering Malware - Beware of Malware!

PROTECT YOUR EMAIL AND REPUTATION
Email Authentication and Brand Monitoring

- GCA DMARC Setup Guide
- dmarcian
- OnDMARC
- ImmuniWeb Phishing Detection Test
- Valimail

BACKUP AND RECOVER
Perform Regular Data Backups

- Paragon Backup & Recovery Preview
- Bacula
- OSX - Time Machine Backup
- Windows 10 - Auto-Backup

LOG AND MONITOR
Continuous Network Monitoring

- Albert Network Monitoring
- McAfee Skyhigh Security Cloud for State Election Officials
- LOGalyze
- Graylog
- Microsoft AccountGuard

TAKE ACTION TO SAFEGUARD OUR DEMOCRACY

A democratic society is built on free and fair elections. Cyber risks threaten that freedom and fairness. The GCA Cybersecurity Toolkit for Elections can help you further secure your organization. Better security will help reinforce public trust in the integrity of our election systems. We encourage you to explore the toolkit, implement the tools, and share the toolkit with your fellow election officials and offices.

FOR MORE INFORMATION CONTACT:
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GLOBAL CYBER ALLIANCE

CIS Center for Internet Security®