Cybersecurity Checklist for Cities T=Time | \$=Money

Policies, Planning and Training

\$\$TT	Create a cybersecurity strategic plan.
TT	Create a security policy signed by all employees and review with new employees during their orientation.
T	Create mobile device and "bring your own device" policies with clear security protocols.
T	Create email distribution lists to share and coordinate threat and vulnerability information with interested parties within your organization.
T	Conduct regular internal security meetings.
TT	Create a cybersecurity awareness training program, tied closely to an established security policy.
TT	Create an incident response plan specifying, in advance, what IT staff would do if x, y or z category of attack occurs.
T	Perform routine login account audits ensuring all accounts are active that should be. Disable accounts not used in a certain number of days.
T	Create a solid policy for in-out employee processing to ensure that all account access is shut down when employees separate from your organization.
T	Standardize on active-directory (AD) or Lightweight Directory Access Protocol (LDAP) compatible applications so passwords can quickly be deactivated across multiple systems.
Т	Be cautious of "cloud" applications, as passwords may not be recoverable and often data access cannot be disabled by the agency.
T	Enforce strict password requirements meeting industry standards for complexity, length, and reset time limits.
\$	Procure multi-factor authentication tools requiring a use to provide "something you have and something you know" for remote access to the network.
T	Implement a patch management program to keep servers and desktops up to date with the latest security patches that prevent known vulnerabilities.
\$\$\$	Seek funding for a hardware replacement program so aging hardware doesn't become unsupportable and vulnerable.
\$\$TT	Create a Continuity of Operations Plan (COOP) to document manual procedures during outages and prioritize recovery of systems.
\$\$TT	Create a disaster recovery plan to back up and recover data, equipment and infrastructure in the event of a disaster.
\$T	Create a Continuity of Government (COG) plan in case of a major natural disaster, whereby certain governmental decision-making authority may be temporarily assigned to alternates.

Staffing

\$\$\$	Create a full-time information security position.
\$\$	Fund staff training and certifications. You are competing with hackers who receive upwards of \$100,000 per person in training to learn how to breach your
	network.

Services

\$\$T	Procure routine outside security audits, including penetration testing and
	Payment Card Industry (PCI) scanning for credit card systems.
\$\$	Procure additional security services through your Internet service provider (ISP)
	such as Distributed Denial of Service (DDoS) monitoring and mitigation.
\$\$\$	Procure 24/7 managed security services through Security Operations Centers to
	identify real-time security threats and develop preventive counter measures.

Physical Security, Software and Hardware

TT	Maintain and routinely test backups keeping in mind public records and/or
	information access laws, records retention schedules and policies.
\$\$	Maintain redundant, off-site data storage in a hardened environment. (In
	computing, hardening is usually the process of securing a system by reducing its
	surface of vulnerability.)
\$\$\$TT	Harden data centers.
T	Permit limited physical access to data centers, and perform regular security
	audits of those entering data-center facilities.
\$\$\$TT	Consider moving to cloud services in a Tier 4 data center. A Tier 4 center
	guarantees 99.995 percent "up time," allowing less than an hour of interrupted
	service during a one-year period.
\$T	Automate and maintain up-to-date virus protection for servers and desktops.
\$\$T	Procure next generation firewalls and tools including features such as intrusion
	prevention/detection, data loss prevention, anti-spam filters, anti-bot filters,
	content filtering and reporting, and threat emulation.
\$\$TT	Procure Security Information and Event Management (SIEM) event correlation
	and reporting tools.

Source: Deesing, Lea. What City Officials Need to Know About Cybersecurity. Government Technology, 23 June 2015. Web. 2 March 2017 Accessed.