YesGov

GOVERNMENT DOMAIN SECURITY REPORT

oswego.lib.il.us

Oswego Public Library District, Illinois

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3 of 16 checks passed **Residents are exposed**

Basic protections recommended by CISA are missing. Each fix below is a standard setting, listed in order of risk to residents.



● 3 passed ● 2 need attention ● 11 missing

Website	Email	DNS and domain
1 of 8	0 of 5	2 of 3

Not on a .gov domain

oswego.lib.il.us is not a .gov address. Anyone can register a look-alike .com or .org, so residents cannot tell from the address alone that this is the official site.

CISA and DHS advise that .gov is a requirement for secure government, trusted communication and public trust. Every day on a non-.gov address is a day residents can be fooled by an impostor site or email.

What to fix first

In order of risk to residents. Each is a one-time setting that then needs to be watched.

1. **Send every visitor to HTTPS** — HIGH RISK

   Residents who type the plain address or follow an old link get an unencrypted page that can be read or changed on public Wi-Fi.

   Fixed by: Your web host

2. **Repair the certificate** — HIGH RISK

   The certificate chain, signature or name does not check out. That teaches residents to click past browser warnings, which is exactly what fake sites rely on.

   Fixed by: Your web host

3. **Turn DMARC enforcement on** — HIGH RISK

   A DMARC record exists but only monitors. Fake tax bills, utility shut-off notices and payment requests sent in the agency's name are still delivered.

   Fixed by: Your email or DNS provider

4 **Repair the SPF record** — HIGH RISK
Receiving mail systems cannot tell the agency's real email from a forgery, so residents can receive fake notices in its name.
Fixed by: Your email or DNS provider

5 **Turn on DKIM signing** — HIGH RISK
Outgoing mail is not signed, so receivers cannot confirm it came from the agency, and DMARC cannot be fully enforced.
Fixed by: Your email provider

6 **Turn on DNSSEC** — HIGH RISK
DNS answers are not signed. A forged answer can send residents to a fake payment page, or redirect the agency's email, with no visible sign.
Fixed by: Your DNS host and domain registrar

7 **Turn on HSTS** — MEDIUM
On public Wi-Fi, a resident's visit can be pushed to an unencrypted copy of the site.
Fixed by: Your web host

8 **Require encrypted mail delivery (MTA-STS)** — MEDIUM
Mail sent to agency staff can be forced onto an unencrypted connection and read in transit.
Fixed by: Your email or DNS provider

9 **Turn on mail encryption reports (TLS-RPT)** — MEDIUM
Nobody is told when encrypted mail delivery to the agency fails or is tampered with.
Fixed by: Your DNS provider

10 **Add framing protection** — MEDIUM
The site can be hidden inside a hostile page to trick residents into clicking buttons they cannot see.
Fixed by: Your web host

11 **Add a CAA record** — MEDIUM
Any certificate authority in the world may issue a certificate for this domain, which makes impersonating the site easier.
Fixed by: Your DNS provider

12 **Add file type protection** — MEDIUM
Browsers may guess file types, which can let an uploaded file run as code against visitors.
Fixed by: Your web host

13 **Publish a security contact (security.txt)** — MEDIUM
People who find a security problem have no standard way to tell the agency before it is misused.
Fixed by: Your web host

All results in detail

Every record and value we saw, grouped by area. Written for your IT team, readable by anyone.

Website — 1 of 8 passed

HTTPS certificate — PASS

Issued by	YR1
Issued to	pantheonsite.io
Expires	October 11, 2026 (88 days after this check)
TLS version	TLSv1.3

Redirect to HTTPS — MISSING

HTTPS available	No
Plain address redirects to HTTPS	No

What this means: Residents who type the plain address or follow an old link get an unencrypted page that can be read or changed on public Wi-Fi.

How to fix: Redirect every http:// request to https:// with a permanent (301) redirect. (Your web host)

HSTS — MISSING

HSTS header	Not sent

What this means: On public Wi-Fi, a resident's visit can be pushed to an unencrypted copy of the site.

How to fix: Send the Strict-Transport-Security header with a max-age of at least one year. (Your web host)

Certificate trust and match — MISSING

Trusted chain	Yes
Strong public key	Yes
Valid signature	Yes
Name matches domain	No

What this means: The certificate chain, signature or name does not check out. That teaches residents to click past browser warnings, which is exactly what fake sites rely on.

How to fix: Reissue the certificate for this exact domain and install the full certificate chain. (Your web host)

CAA record — MISSING

CAA record	Not found

What this means: Any certificate authority in the world may issue a certificate for this domain, which makes impersonating the site easier.

How to fix: Publish a CAA record naming the authority you use, for example 0 issue "letsencrypt.org". (Your DNS provider)

Framing protection — MISSING

X-Frame-Options	Not sent

What this means: The site can be hidden inside a hostile page to trick residents into clicking buttons they cannot see.

How to fix: Send the header X-Frame-Options: SAMEORIGIN, or a Content-Security-Policy with frame-ancestors 'self'. (Your web host)

File type protection — MISSING

X-Content-Type-Options	Not sent

What this means: Browsers may guess file types, which can let an uploaded file run as code against visitors.

How to fix: Send the header X-Content-Type-Options: nosniff. (Your web host)

Security contact (security.txt) — MISSING

/.well-known/security.txt	Not found

What this means: People who find a security problem have no standard way to tell the agency before it is misused.

How to fix: Publish /.well-known/security.txt with a contact address and an expiry date. (Your web host)

Email — 0 of 5 passed

SPF — NEEDS ATTENTION

Record	`v=spf1 include:amazonses.com a:mail.oswego.lib.il.us ~all`
Ending	Soft fail (~all)

What this means: Receiving mail systems cannot tell the agency's real email from a forgery, so residents can receive fake notices in its name.

How to fix: Publish one TXT record that lists every service sending mail for the domain and ends in -all. (Your email or DNS provider)

DKIM — MISSING

Signing keys	Not found

What this means: Outgoing mail is not signed, so receivers cannot confirm it came from the agency, and DMARC cannot be fully enforced.

How to fix: Turn on DKIM in the mail service (Microsoft 365, Google Workspace and others) and publish the DNS records it gives you. (Your email provider)

DMARC — NEEDS ATTENTION

Policy	none (monitor only)
Reports sent to	dreport@oswego.lib.il.us
Record	`v=DMARC1; p=none; rua=mailto:dreport@oswego.lib.il.us; ruf=mailto:dreport@oswego.lib.il.us; sp=none; fo=s; ri=86400`

What this means: A DMARC record exists but only monitors. Fake tax bills, utility shut-off notices and payment requests sent in the agency's name are still delivered.

How to fix: After reviewing the reports, change p=none to p=quarantine, then to p=reject. (Your email or DNS provider)

MTA-STS — MISSING

DNS record	Not found
Policy file	Not found
Enforced	No

What this means: Mail sent to agency staff can be forced onto an unencrypted connection and read in transit.

How to fix: Publish an _mta-sts TXT record and a policy file at mta-sts.(domain)/.well-known/mta-sts.txt. (Your email or DNS provider)

TLS-RPT — MISSING

TLS-RPT record	Not found

What this means: Nobody is told when encrypted mail delivery to the agency fails or is tampered with.

How to fix: Publish a TXT record at _smtp._tls with an address to receive reports. (Your DNS provider)

DNS and domain — 2 of 3 passed

DNSSEC — MISSING

Zone signed	No
Result	No DNSSEC records found. DNSSEC may not be enabled for this domain.

What this means: DNS answers are not signed. A forged answer can send residents to a fake payment page, or redirect the agency's email, with no visible sign.

How to fix: Turn on DNSSEC signing at the DNS host, then add the DS record at the registrar. (Your DNS host and domain registrar)

IPv6 — PASS

Website reachable over IPv6	Yes
Website IPv6 addresses	2620:12a:8000::1, 2620:12a:8001::1
Name servers reachable over IPv6	Yes

RPKI route protection — PASS

Website route signed	Yes
Website route valid	Yes
Name server route valid	Yes

.gov domain — NOT SCORED

Ends in .gov	No

What this means: Anyone can register a look-alike .com or .org, so residents have no way to confirm this is the official site. Every .gov request is verified by CISA.

Hosting and platform

Informational, not scored

Website server	23.185.0.1
Mail server	d222815a.ess.barracudanetworks.com
Website server reputation	Not on abuse lists
Mail server blocklists	Not listed
WordPress	Not detected
Email addresses published on the site	0
Broken links found	0
Referrer policy header	No

Progress over time

Checks passed at each scan, oldest to newest. Highest possible is 16.



If these basics were missed, what else has been missed?

These are published CISA standards that any IT department or provider can check in seconds. YesGov can fix all 13 in under 24 hours, re-run this check to prove it, and keep watching every day. The move to .gov takes 1 to 2 weeks because CISA verifies each request; security fixes on the current domain do not wait for it.

yesgov.com/contact · (888) 777-0017 · info@yesgov.com

How we check

We only check settings that any computer on the internet can see: DNS records, certificates, web headers and mail policies. We never log in to, scan or probe any agency system. The 16 checks build on CISA Binding Operational Directive 18-01 and other published internet standards. Full method: yesgov.com/open-data#how-we-grade.

Verify this report online

Scan the code or visit the address below to see these results, check the domain again and get alerts when anything changes.

https://yesgov.com/check/oswego--lib--il--us?check=eb145118-e327-4e2d-b1e6-c6f1745e2156

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