YesGov

GOVERNMENT DOMAIN SECURITY REPORT

kerncog.org

Kern Council of Governments, California

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D+

6 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.



6 passed · 1 needs attention · 9 missing

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

Not on a .gov domain

kerncog.org 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. **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

2. **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

3. **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

4 **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

5 **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

6 **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

7 **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

8 **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

9 **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

10 **Add IPv6 support** MEDIUM
Networks that only use IPv6, including some mobile carriers, cannot reach the site directly.
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 — 3 of 8 passed

HTTPS certificate — PASS

Issued by	**YR1**
Issued to	***.kerncog.org**
Expires	**October 2, 2026 (65 days after this check)**
TLS version	**TLSv1.3**

Redirect to HTTPS — PASS

HTTPS available	**Yes**
Plain address redirects to HTTPS	**Yes**

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 — PASS

Trusted chain	Yes
Strong public key	Yes
Valid signature	Yes
Name matches domain	Yes

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 — 2 of 5 passed

SPF — PASS

Record	`v=spf1 include:fluxarsystems.net include:relay.mailchannels.net include:spf.protection.outlook.com include:spf-ipw.inkyphishfence.com include:spf-obx.inkyphishfence.com -all`
Ending	Strict (-all)

DKIM — PASS

Selectors found	default

DMARC — NEEDS ATTENTION

Policy	none (monitor only)
Record	v=DMARC1; p=none;

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 — 1 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 — MISSING

Website reachable over IPv6	No
Name servers reachable over IPv6	No

What this means: Networks that only use IPv6, including some mobile carriers, cannot reach the site directly.

How to fix: Ask the host for an IPv6 address and publish an AAAA record for the site. (Your web host)

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.

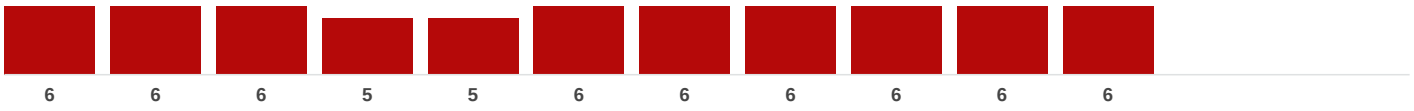
Hosting and platform

Informational, not scored

Website server	**107.155.74.2**
Mail server	**kerncog-org.mail.protection.outlook.com**
Website server reputation	**Not on abuse lists**
Mail server blocklists	**Not listed**
WordPress	**Yes, version 7.0.2**
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 10 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/kerncog--org?check=4153b7ed-e1bb-4f8b-8efa-b5dfc7fdb6cc

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