

Everyone
deserves good
internet security

**Less than 1% of top
web sites use security
features available today.**

Internet is insecure by default. To be secure, we need to work hard.

**WHOIS, DNS, DNSSEC, DANE, CAA,
SMTP, STARTTLS, MTA-STS, X.509,
CAs, SPF, DKIM, DMARC, ARC, IPv4,
IPv6, HTTP/2, Cookies, SSL, TLS,
HSTS, HPKP, RC4, SHA, CT, Expect-
CT, Referrer Policy, Mixed content,
CSP, SRI, privacy, and many more...**



**WHOIS DNSSEC
DNS DANE CAA
SMTP STARTTLS
MTA-STS X.509
CA_s SPF DKIM
DMARC ARC
IPv4 IPv6 HTTP/2
Cookies SSL TLS
HSTS HPKP RC4
SHA CT Expect-CT
Referrer Policy Mixed
Content CSP SRI**



No one has **time,
expertise, or **budget**
to do all of this properly.**

Hardenize


Know Audit Guide







SSL Labs (2009)

 **QUALYS[®] SSL LABS**

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SSL Report: defcon.org (162.222.171.206)

Assessed on: Tue, 29 Sep 2015 17:03:22 UTC | [HIDDEN](#) | [Clear cache](#)

[Scan Another »](#)

Summary

Overall Rating



Certificate
Protocol Support
Key Exchange
Cipher Strength




Category	Score
Certificate	100
Protocol Support	95
Key Exchange	90
Cipher Strength	100

Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This server supports TLS_FALLBACK_SCSV to prevent protocol downgrade attacks.

This server supports HTTP Strict Transport Security with long duration. Grade set to A+. [MORE INFO »](#)

Authentication

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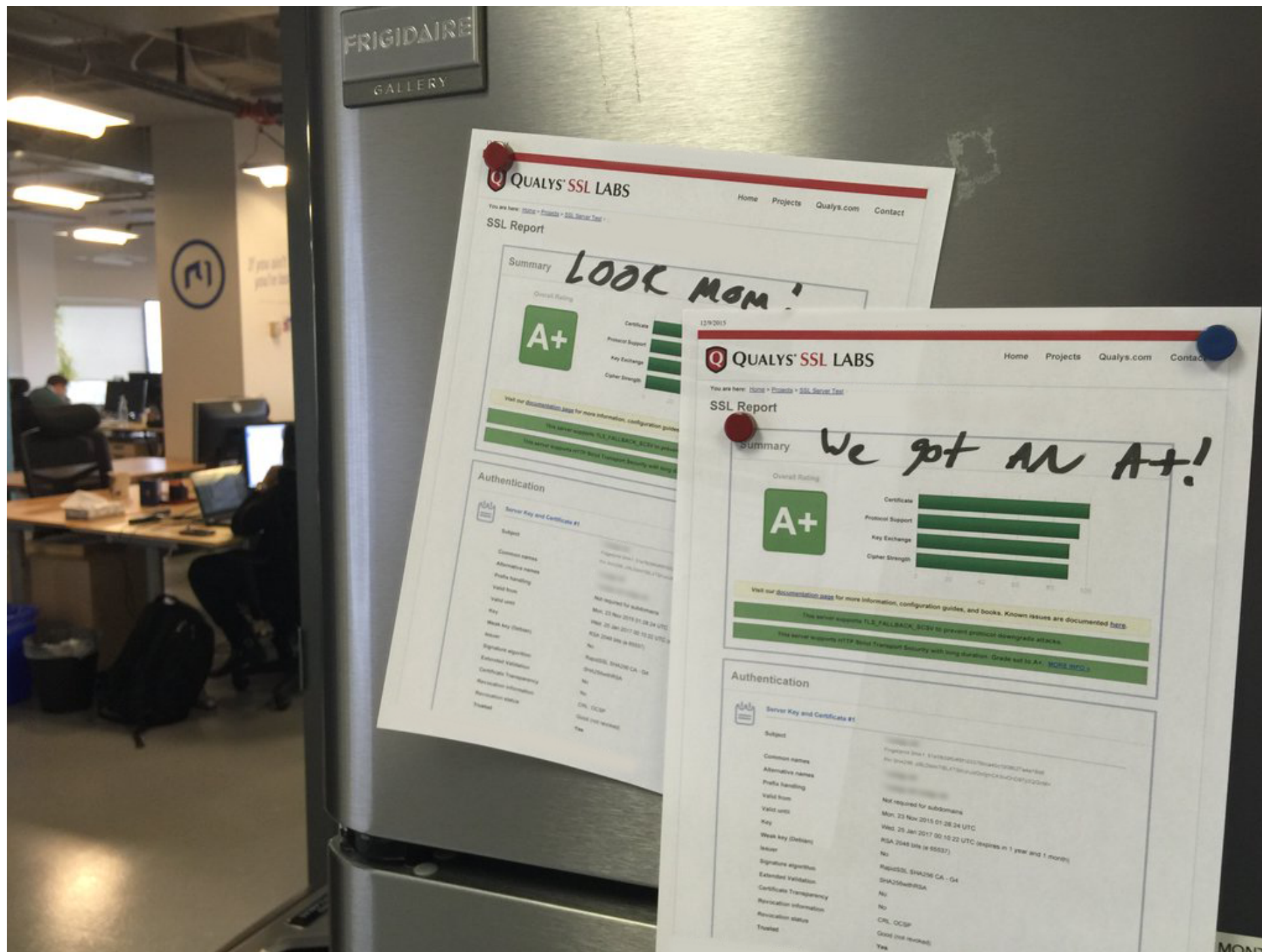
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Authentication

Make security interesting

Usable security that
people actually want to use.





Make security
interesting,
easy, and fun.

“Try it now”


Remove the barrier to entry by
making tools easily available.

Make it clear

Hide most of technical information. What you do show, make clear and relevant.

It should be a game

Develop useful grading criteria that
makes the next step just out of reach.



HOME

FEATURES

DASHBOARDS

BLOG

ABOUT

ADMIN


ACCOUNT

We'll help you to deploy the security standards you need

With so many security features to deploy and services to configure, most organizations struggle to understand where they are, security-wise, and where they need to be. Things break. Our continuous monitoring service keeps an eye on your properties and enables you to have exactly the security you want.

Try our public report against your domain name:

RUN



feistyduck.com

14 Mar 2017 12:52 UTC

Domain

✓ Name servers

× DNSSEC

× CAA

Email

SECURE TRANSPORT (SMTP)

✓ TLS

✓ Certificates

× DANE


AUTHENTICATION AND POLICY


✓ SPF

✓ DMARC

WWW

PROTOCOLS

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 [REPLAY INTRO](#)

Preview



Simple on
the surface

Easy to
understand and
communicate

Wide coverage
of security and
configurations
standards



feistyduck.com







19 Oct 2017 18:25 UTC  

 Tweet

Domain

- ✓ Name servers 
- ✗ DNSSEC 
- ✗ CAA 

Email

- ✓ Mail servers 
- SECURE TRANSPORT (SMTP)
- ✓ TLS 
- ✓ Certificates 
- ✗ DANE 
- AUTHENTICATION AND POLICY
- ✓ SPF 
- ✗ DMARC 

WWW

- PROTOCOLS
- ✓ HTTP (80) 
- ✓ HTTPS (443) 




Hundreds of
complex tests
under the hood

Correlation and
meaningful
findings

Full data
available when
needed

AUTHENTICATION AND POLICY





- ✓ SPF 
- ✗ DMARC 

WWW




PROTOCOLS

- ✓ HTTP (80) 
- ✓ HTTPS (443) 




SECURE TRANSPORT

- ! TLS 
- ✓ Certificates 
- ✓ Cookies 
- ✓ Mixed Content 


MODERN SECURITY FEATURES

- ✓ Strict Transport Security 
- ✗ Public Key Pinning 
- ✗ Content Security Policy 
- ✓ Subresource Integrity 

APPLICATION SECURITY

- ✓ Frame Options 
- ✗ XSS Protection 
- ✗ Content Type Options 


Full data
available
as needed

 Hardenize

HOMEFEATURESDASHBOARDSBLOGABOUTADMINACCOUNT

Public Report | hardenize.com

TEST ANOTHER

 hardenize.com

17 Oct 2017 00:56 UTC

Tweet

Domain

✓ Name servers

✗ DNSSEC

✗ CAA

Email

✓ Mail servers

SECURE TRANSPORT (SMTP)

✓ TLS

✓ Certificates

✗ DANE

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WEB SECURITY OVERVIEW

✓ HTTPS

Web sites need to use encryption to help their visitors know they're in the right place, as well as provide confidentiality and content integrity. Sites that don't support HTTPS may expose sensitive data and have their pages modified and subverted.

For all sites

VERY IMPORTANT

MEDIUM EFFORT

✓ HTTPS Redirection

To deploy HTTPS properly, web sites must redirect all unsafe (plaintext) traffic to the encrypted variant. This approach ensures that no sensitive data is exposed and that further security technologies can be activated.

For all sites

VERY IMPORTANT

LOW EFFORT

✓ HTTP Strict Transport Security

HTTP Strict Transport Security (HSTS) is an HTTPS extension that instructs browsers to remember sites that use encryption and enforce strict security requirements. Without HSTS, active network attacks are easy to carry out.

For important sites

VERY IMPORTANT

MEDIUM EFFORT

✓ HSTS Preloaded

HSTS Preloading is informing browsers in advance about a site's use of HSTS, which means that strict security can be enforced even on the first visit. This approach provides best HTTPS security available today.

For important sites

VERY IMPORTANT

MEDIUM EFFORT

✓ Content Security Policy

Content Security Policy (CSP) is an additional security layer that enables web sites to control browser behavior, creating a safety net that can counter attacks such as cross-site scripting.

For important sites

IMPORTANT

HIGH EFFORT

EMAIL SECURITY OVERVIEW

✓ STARTTLS

All hosts that receive email need encryption to ensure confidentiality of email messages. Email servers thus need to support STARTLS, as well as provide decent TLS configuration and correct certificates.

For all sites

VERY IMPORTANT

LOW EFFORT

✓ SPF

Sender Policy Framework (SPF) enables organizations to designate servers that are allowed to send email messages on their behalf. With SPF in place, spam is easier to identify.

For important sites

IMPORTANT

LOW EFFORT

✗ DMARC

Domain-based Message Authentication, Reporting, and Conformance (DMARC) is a mechanism that allows organizations to specify how unauthenticated email (identified using SPF and DKIM) should be handled.

For important sites

IMPORTANT

LOW EFFORT

**“Doesn’t look like a
security product”**

— One of our early users

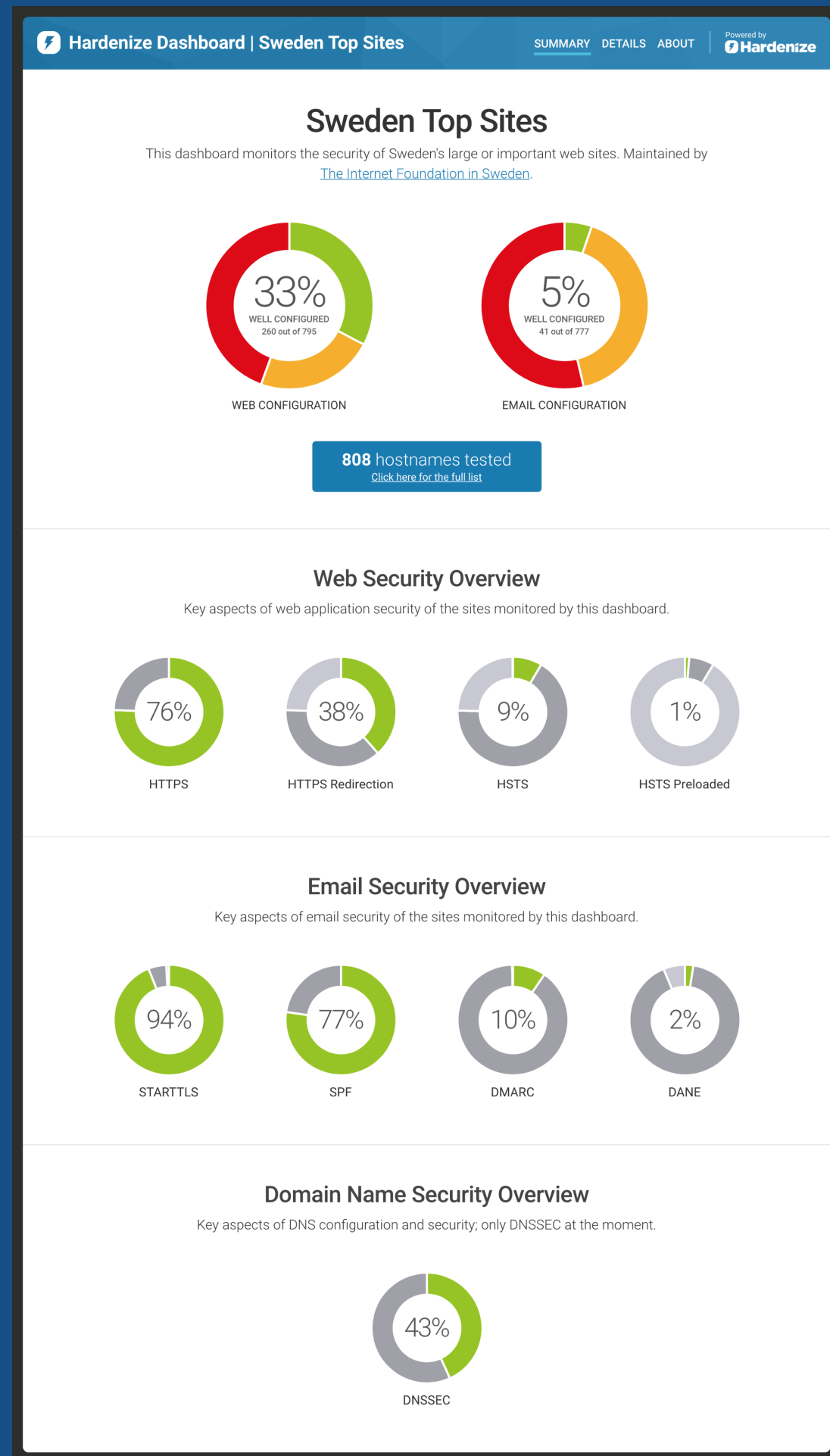
Transparency is a vital ingredient

Transparency creates urgency. Urgency
creates budget. Things get done.



Public
dashboards

Provided for
free to official
organisations



Web site badges



Everyone starts with the default badge



If you have robust HTTPS you get this one instead

Simplified to
focus on most
important
aspects first.



HARDENIZE.COM



[VIEW FULL REPORT >](#)



HTTPS

Web sites need to use encryption to help their visitors know they're in the right place, as well as provide confidentiality and content integrity. Sites that don't support HTTPS may expose sensitive data and have their pages modified and subverted.

For all sites



-  VERY IMPORTANT
-  MEDIUM EFFORT



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For all sites



-  VERY IMPORTANT
-  LOW EFFORT



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For important sites



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-  MEDIUM EFFORT



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For important sites

-  VERY IMPORTANT
-  MEDIUM EFFORT

Free public
assessments



Public
dashboards

Security badge

Continuous
monitoring



hardenize.com

17 Oct 2017 00:56 UTC  

Domain

- ✓ Name servers 
- ✗ DNSSEC 
- ✗ CAA 


Email

- ✓ Mail servers 

SECURE TRANSPORT (SMTP)

- ✓ TLS 
- ✓ Certificates 
- ✗ DANE 

AUTHENTICATION AND POLICY

- ✓ SPF 
- ✗ DMARC 

- ✓ SPF 
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