

Cryptographic Changes Inbound!

You MAY have time to get ready.
This time

Photo by Jens Herrndorff on Unsplash

Disclaimer

This talk contains no maths.

You are here: [Home](#) > [Projects](#) > [SSL Server Test](#) > [sectigo.com](#) > 91.199.212.90

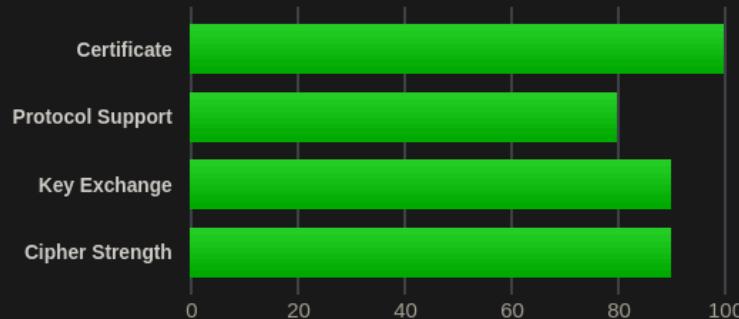
SSL Report: [sectigo.com](#) (91.199.212.90)

Assessed on: Fri, 27 Feb 2026 13:30:49 UTC | [Clear cache](#)

[Scan Another »](#)

Summary

Overall Rating



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

This server does not support TLS 1.3. [MORE INFO »](#)

DNS Certification Authority Authorization (CAA) Policy found for this domain. [MORE INFO »](#)

Non-Exhaustive Cryptographic Attacks History

Post-Snowden Files

Feature	Attack
SSL 3	POODLE
Compression	CRIME/BREACH
Export-Grade	LogJam
SHA-1	SHAttered

More Recently
Distrusting Entrust

Certificate Lifetime Reduction

Ever had an outage due to an expired Certificate?
(I know I did!)

Max TTLs

Date	TTL (d)
(Current)	398
2026-03-15	200
2027-03-15	100
2029-03-15	47

Rationale

- Reducing the duration of the impacts of a compromised certificate
- Driving adoption of certificate automations (eg: ACME)

90-days corporate renewal policy?

Please Share Tips on How to Update it?

This is just \$hrinkflation!

They want more money for the same service!

En-  -ification!

- Someone who probably pays for Extended Validation (EV) Certificate

Paying for a certificate?

LetsEncrypt:

- A Free CA
- 90d or 7d certificates
- DV only

Automation

- **ACME: Automated Certificate Management Environment**
- SCEP: Simple Certificate Enrollment Protocol
- CMP: Certificate Management Protocol
- EST: Enrollment over Secure Transport

Post-Quantum Cryptography



Photo by Pierre Metivier on Flickr

Post-Quantum Cryptography

Effects of Quantum Computers on Algorithms

Symmetric (ex: AES)

Halves effective strength

Asymmetric (ex: RSA)

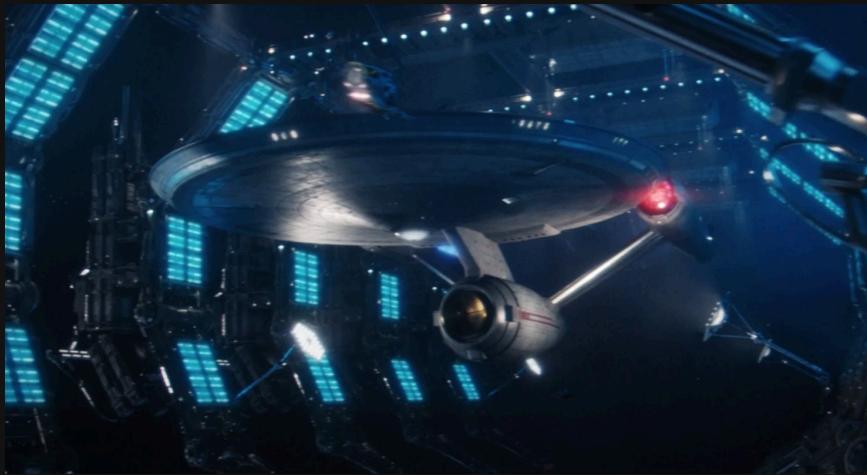
Breaks the cipher

TLS uses Asymmetric Cryptography to negotiate Ephemeral (Session) Symmetric Cryptography



First Selected Algorithms: Crystals-Lattice

Dilithium



Source: Memory Alpha

Kyber



Source: Wookieepedia

I'm not as courageous as Rendle to confuse them!

First Selected Algorithms: Crystals-Lattice

Dilithium

ML-DSA

Module-Lattice-Based Digital Signature Algorithm

FIPS-204

Kyber

ML-KEM

Module-Lattice-Based Key Encapsulation Mechanism

FIPS-203

Timeline

2030

PQC Support SHOULD Be Enabled

2035

Traditional Cryptography is Deprecated

Don't Panic