

ssl alternatives

SimpleSSH: A Basic Interoperability Profile for the SSH Protocol

<https://www.cs.auckland.ac.nz/~pgut001/pubs/simplessh.txt>

Convergence (SSL)

[https://en.wikipedia.org/wiki/Convergence_\(SSL\)](https://en.wikipedia.org/wiki/Convergence_(SSL))

Notaries

<https://github.com/moxie0/Convergence/wiki/Notaries>

Moxie Marlinspike

https://en.wikipedia.org/wiki/Moxie_Marlinspike

client certificates

Client Certificate Authentication with HAProxy

<https://www.loadbalancer.org/blog/client-certificate-authentication-with-haproxy/>

p11

OpenSC / libp11

<https://github.com/OpenSC/libp11/blob/master/README.md>

CHAPTER 5. CONFIGURING APPLICATIONS TO USE CRYPTOGRAPHIC HARDWARE THROUGH PKCS #11

https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/8/html/security_hardening/configuring-applications-to-use-cryptographic-hardware-through-pkcs-11_security-hardening

p11-kit

<https://github.com/p11-glue/p11-kit>

p11-glue

<https://p11-glue.github.io/p11-glue/>

Project: p11-kit

<https://p11-glue.github.io/p11-glue/p11-kit.html>

pkcs11.conf — Configuration files for PKCS#11 modules

<https://p11-glue.github.io/p11-glue/p11-kit/manual/pkcs11-conf.html>

Example

<https://p11-glue.github.io/p11-glue/p11-kit/manual/config-example.html>

MilitaryCAC

<https://militarycac.com/linux.htm>

sniff & decrypt

Transport Layer Security (TLS)

<https://wiki.wireshark.org/TLS>

Why wireshark cannot display TLS/SSL

<https://osqa-ask.wireshark.org/questions/34075/why-wireshark-cannot-display-tlsssl>

TCP protocol instead of SSL/TLS in Wireshark

<https://stackoverflow.com/questions/28789179/tcp-protocol-instead-of-ssl-tls-in-wireshark/49423430>

ssl2

trust store tuning

CAcert

<http://www.cacert.org/>

Adding CACert root certificates to your Slackware

<https://alien.slackbook.org/blog/adding-cacert-root-certificates-to-your-slackware/>

ssl tuning - online checkers

<https://www.ssllabs.com/ssltest/analyze.html>

<https://cryptcheck.fr>

firefox: from green to gray

Improved Security and Privacy Indicators in Firefox 70

<https://blog.mozilla.org/security/2019/10/15/improved-security-and-privacy-indicators-in-firefox-70/>

ssl

books

Implementing SSL

<https://commandlinefanatic.com/cgi-bin/showpage.cgi?page=implementingssl>

ssl engines

<https://www.wolfssl.com/>

pkix

Public key infrastructure

https://en.wikipedia.org/wiki/Public_key_infrastructure

X.509

<https://en.wikipedia.org/wiki/X.509>

pkix - lencr

Standing on Our Own Two Feet [Updated]

<https://letsencrypt.org/2020/11/06/own-two-feet.html>

Extending Android Device Compatibility for Let's Encrypt Certificates

<https://letsencrypt.org/2020/12/21/extending-android-compatibility.html>

lab/ctf

Question: Can you break TLS? [200PTS]

https://github.com/zack-lau/WriteUps/blob/master/HITB-Facebook-CTF-2016/capture_Mexico-tls/README.md

no ssl required

Securing access to Wikimedia sites with HTTPS

<https://diff.wikimedia.org/2015/06/12/securing-wikimedia-sites-with-https/>

mitm-happy

HTTP Strict Transport Security

https://en.wikipedia.org/wiki/HTTP_Strict_Transport_Security

HTTP Strict Transport Security (HSTS) and NGINX

<https://www.nginx.com/blog/http-strict-transport-security-hsts-and-nginx/>

HSTS Preloading using Nginx, Letsencrypt and Capistrano.

<https://dev.to/sonica/hsts-preloading-using-nginx-letsencrypt-and-capistrano-1817>

Setting up HSTS in nginx
<https://scotthelme.co.uk/setting-up-hsts-in-nginx/>

videos

ssl is dead

USENIX Enigma 2016 - PKI at Scale Using Short-lived Certificates
<https://www.youtube.com/watch?v=7YPIsbz8Pig>

USENIX Enigma 2016 - Several Horror Stories about the Encrypted Web
<https://www.youtube.com/watch?v=bi3SA6jgIZ8>

USENIX Enigma 2016 - Trust Beyond the First Hop-What Really Happens to Data Sent to HTTPS Websites
<https://www.youtube.com/watch?v=Ef7W-SjueS4> ==> “warning fatigue”

industrialization

Yahoo SSL deployments
<https://www.netmeister.org/blog/razors-edge/oreilly-security-2017-razors-edge.mp4>