Unix & Linux

/ questions / tags /ask question / badges / users / unanswered Adding a self-signed certificate to the "trusted list" I've generated a self-signed certificate for my build server and I'd like to globally trust the certificate 4 years, 9 months ago asked on my machine, as I created the key myself and I'm sick of seeing warnings. viewed 155.248 times I'm on Ubuntu 12.04. How can I take the certificate and globally trust it so that browsers (Google 64 2 months ago Chrome), CLI utilities (wget, curl), and programming languages (Python, Java, etc.) trust the connection to https://mysite.com without asking questions? Linked / ssl Self-signed certificate gives error "x509: certificate signed by unknown authority" share improve this question asked Sep 12 '13 at 22:49 27 Naftuli Kay Related 11k ● 51 ● 147 ● 240 Trust a self signed PEM certificate All the TLS should be vectored through OpenSSL, so that's the place to look for documentation. In this Make SSL certificate trusted in browser via case: gagravarr.org/writing/openssl-certs/... looks useful. – msw Sep 13 '13 at 2:06 & SSL Bump Squid add a comment Creating Self signed certificate for tomcat 6 Dovecot with CAcert certificates, Outlook can't 4 Answers active oldest votes connect to IMAP How to use feh to open web image with selfsigned certificate The simple answer to this is that pretty much each application will handle it differently. Unable to use a self-signed certif. on localhost Also OpenSSL and GNUTLS (the most widely used certificate processing libraries used to handle How to produce p12 file with RSA private key signed certificates) behave differently in their treatment of certs which also complicates the issue. and self-signed certificate Also operating systems utilize different mechanisms to utilize "root CA" used by most websites.



That aside, giving Debian as an example. Install the ca-certificates package:



apt-get install ca-certificates

You then copy the public half of your untrusted CA certificate (the one you use to sign your CSR) into the CA certificate directory (as root):

```
cp cacert.pem /usr/share/ca-certificates
```

And get it to rebuild the directory with your certificate included, run as root:

```
dpkg-reconfigure ca-certificates
```

and select the ask option, scroll to your certificate, mark it for inclusion and select ok.

Most browsers use their own CA database, and so tools like certutil have to be used to modify their contents (on Debian that is provided by the libnss3-tools package). For example, with Chrome you run something along the lines of:

```
certutil -d sql:$HOME/.pki/nssdb -A -t "C,," -n "My Homemade CA" -i /path/to/CA/cert.
```

Firefox will allow you to browse to the certificate on disk, recognize it a certificate file and then allow you to import it to Root CA list.

Most other commands such as curl take command line switches you can use to point at your CA,

```
curl --cacert /path/to/CA/cert.file https://...
```

or drop the SSL validation altogether

```
curl --insecure https://...
```

The rest will need individual investigation if the ca-certificates like trick does not sort it for that particular application.

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answered Sep 14 '13 at 5:42

Drav Sloan

- How to create keystore and truststore using self-signed certificate?
- 2 Chrome Chromium should accept self signed certificates
- 0 Generate Self-sign certificate from existing CA

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Also, as noted here, adding CA certificates for Java is likewise a separate matter. – Naftuli Kay Mar 28 '14 at 0:40

- After copying the certificate to /usr/share/ca-certificates, I can't see it in the dpkg-reconfigure ca-certificates list. What am I doing wrong? Georges Dupéron Feb 17 '15 at 19:21
- @GeorgesDupéron That happened to me to. I resolved it by renaming the cert from whatever.pem to whatever.crt . Hello World Oct 3 '15 at 7:19 /

Fantastic, I'd already been paid half a day by the time I found this answer. Not sure I could have justified another half day and no work done;) – Jamie Hutber Oct 17 '17 at 10:25

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Non Interactive Approach

For use in a non-interactive context (e.g. a chef recipe) you can use the following sequence.

sudo cp my.crt /usr/local/share/ca-certificates/
sudo update-ca-certificates

- Tested and works on debian 5/6 & Ubuntu 14.04.
- For more information, see man update-ca-certificates

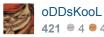
This method is preferred over @Drav's method, since /usr/share/ is typically reserved for files added by the OS / apt-get .

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edited Dec 9 '16 at 23:37

BobTuckerman

answered May 27 '14 at 9:07



It is better to copy the files to /usr/local/share/ca-certificates/ as mentioned in the man pages – ortang Feb 4 '16 at 10:20

FYI the A must be a .crt , I found .cert claimed it was added but did not help - KCD Dec 13 '16 at

- What is the word for the metal things on boots where the laces go?
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- A system of logarithmic equations with parameters
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- Can't delete empty folder because it is used
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- Can weapons get better?
- Can I shut off my keyboard w/o turning off my computer?
- a question feed



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On Fedora 23, add the .pem or .der file to /etc/pki/ca-trust/source/anchors/ and run sudo update-ca-trust extract .

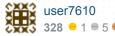
6

See man update-ca-trust for details, e.g. whether to use /etc or /usr.



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answered Mar 20 '16 at 16:43



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In centos:

cp *.pem /etc/pki/ca-trust/source/anchors/
update-ca-trust extract



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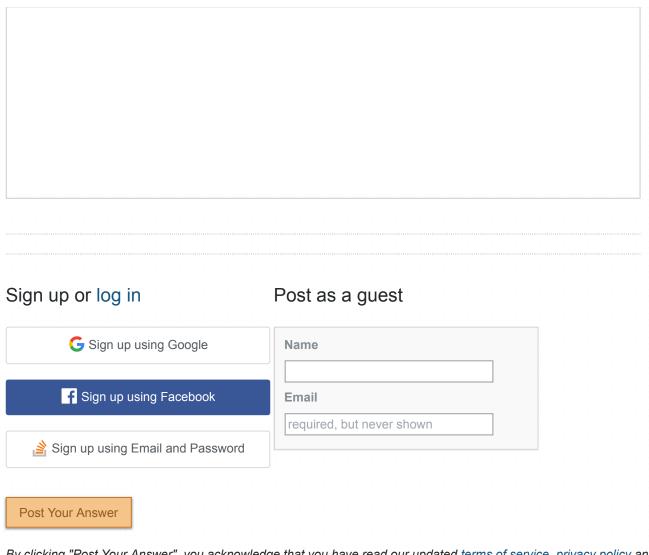
answered Apr 19 at 10:58



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