

Verifying Downloads

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whoami

Two step process:

1. Verify the source
2. Verify the contents

**Verify the
source**

Check the hostname

But... DNS can be
changed

Change the
nameservers

Poison the DNS cache

<http://youtu.be/1d1tUefYn4U>

SSL and DNSSEC

Useful but rare and
have overheads

**Verify the
contents**

Checksums

String representing
block of data

md5sum

(also sha*sum)

Usage:

md5sum [FILE]

Also **-c** to check

An unmodified file

a30a7d0126cbb23faa8f18b57399a407

An unmodified file.

1f048e1b12e368f917d1c92381b6d2e4

Requirements

1. Cheap to compute
2. One-way
3. Collision-free

Broken in?

Just change the
checksums...

Checksum summary

+1 for content

-1 for security

File signing

Used by Debian

Questions?

www.yanone.de

tinyurl.com/slide-design-dev