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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'clevis-encrypt-tang.1' command

\$ man clevis-encrypt-tang.1

CLEVIS-ENCRYPT-TAN(1)

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NAME

clevis-encrypt-tang - Encrypts using a Tang binding server policy

SYNOPSIS

clevis encrypt tang CONFIG [-y] < PT > JWE

OVERVIEW

The clevis encrypt tang command encrypts using a Tang binding server

policy. Its only argument is the JSON configuration object.

Clevis provides support for the Tang network binding server. Tang

provides a stateless, lightweight alternative to escrows. Encrypting

data using the Tang pin works like this:

\$ clevis encrypt tang '{"url":"http://tang.srv"}' < PT > JWE

The advertisement contains the following signing keys:

_OsIk0T-E2l6qjfdDiwVmidoZjA

Do you wish to trust these keys? [ynYN] y

To decrypt the data, just pass it to the clevis decrypt command:

\$ clevis decrypt < JWE > PT

As you can see above, Tang utilizes a trust-on-first-use workflow. If

you already know the thumbprint of a trusted key, you can specify it in

the configuration at encryption time:

\$ cfg='{"url":"http://tang.srv","thp":"_OsIk0T-E2I6qjfdDiwVmidoZjA"}'

\$ clevis encrypt tang "\$cfg" < PT > JWE

Obtaining the thumbprint of a trusted signing key is easy. If you have

access to the Tang server, simply execute:

\$ tang-show-keys <PORT>

where <PORT> is the port that the Tang server is listening on.

If tang-show-keys is not available, but you have access to the Tang

server?s database directory, you can execute this instead:

\$ jose jwk thp -i \$DBDIR/\$SIG.jwk

Tang can also perform entirely offline encryption if you pre-share the server advertisement. You can fetch the advertisement with a simple command (just be careful your network isn?t compromised!):

\$ curl -f \$URL/adv > adv.jws

Once you have the advertisement file, just provide it:

\$ clevis encrypt tang '{"url":...,"adv":"adv.jws"}' < PT > JWE

CONFIG

This command uses the following configuration properties:

? url (string) : The base URL of the Tang server (REQUIRED)

? thp (string) : The thumbprint of a trusted signing key

? adv (string) : A filename containing a trusted advertisement

? adv (object) : A trusted advertisement (raw JSON)

OPTIONS

 -y : Automatically answer yes for all questions. Use this option for skipping the advertisement trust check. This can be useful in automated deployments:

\$ clevis encrypt tang '{"url":...}' -y < PT > JWE

SEE ALSO

clevis-decrypt(1)

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