NAME

tnascert-deploy - A tool used to deploy UI certificates to a TrueNAS host

SYNOPSIS

tnascert-deploy [-h] [-c value] section_name ... section_name

-c, –config="full path to tnas-cert.ini file" -h, –help -v, –version

DESCRIPTION

A tool used to import a TLS certificate and private key into a TrueNAS SCALE host running *Tru-*
eNAS 24.14, TrueNAS 25+, TrueNAS-CORE, or zVault Once imported, the tool may be confi-
gred to activate the TrueNAS host to use it as the main UI TLS certificate.

The tnas-cert.ini file consists of multiple sections The optional command line arguments sec-
tion_name may by used to load that particular configuration. This allows for maintaining multiple
configurations in one tnas-cert.ini file where each *section_name* may be an individual *TrueNAS*
host. You may list multiple ***_section_name*** on the command line to loop through certificate
installation on multiple *TrueNAS* hosts.

If the optional argument *section_name* is not provided, The *deploy_default* section name is cho-
sen to load the configuration if it exists.

For client authentication, you may use either a TrueNAS *api_key* or the *username* and *password*
for user with admin privileges. The *api_key* is the preferred method for authentication. If all three
variables are set in a configuration, the *api_key* login method will always be used. If you prefer to
use the *username* and *password* ensure only the *username* and *password* are set in your configu-
ration.

See the sample **tnas-cert.ini** file.

FILES

The default configuration file is named *tnas-cert.ini* in the current working directory. You may
use the command line switch to use another file name and full path to the config file.

CONFIG FILE SETTINGS

In order to authenticate with a TrueNAS system, the user must either use the TrueNAS UI to gen-
erate and copy an **api_key** or use an admin **username** and **password** in the configuration file. The
api_key is preferred and if all three are defined in the configuration file, only the **api_key** will be
used. Do not include the **api_key** if you wish to use the **username** and **password**.

- **api_key** - (optional, no default) TrueNAS 64 byte API Key for login the preferred login
  method).

- **username** - (optional, no default) TrueNAS username with admin privileges (API key is pre-
  ferred for login)

- **password** - (optional, no default) TrueNAS password for user with admin privileges, (API key
  is preferred for login)

- **cert_basename** - (optional, default is **"tnascert-deploy"**) basename for the certificate naming
  in TrueNAS.

- **connect_host** - (required), TrueNAS DNS Fully Qualified Domain Name, FQDN, or IP ad-
  dress

- **client_api** - (optional, default is "wsapi") The TrueNAS API to use. Choices are: 'wsapi' for the JSON-RPC 2.0 websocket API or 'restapi' for the RESTful v2.0 API.

- **delete_old_certs** - (optional, default is **false**) whether to remove old certificates, default is false

- **full_chain_path** - (required), full path name to the certificate full_chain.pem

- **private_key_path** - (required), full path name to the certificate private_key.pem

- **port** - (optional, default is **443**) TrueNAS API endpoint port

- **protocol** - (optional, default is **"wss"**) websocket protocol 'ws', 'wss', 'http', or 'https'. 'ws' and 'wss'are only for TrueNAS-SCALE systems utilizing the JSON-RPC 2.0 websocket API. Use 'http' or 'https' for systems utilizing the RESTful v2.0 API.

- **tls_skip_verify** - (optional, default is **false**) strict SSL cert verification of the endpoint.

- **add_as_ui_certificate** - (optional, default is **false**) install as the active UI certificate if true

- **add_as_ftp_certificate** - (optional, default is **false**) install as the active FTP service certificate if true

- **add_as_app_certificate** - (optional, default is **false**) install as the active APP service certificate if true to the apps listed in the 'app_list'

- **app_list** - (optional, no default) A comma separated list of docker apps that you wish to have the newly imported certificate used. Apps in the list are only set to used the certificate if they have one assigned already. You must enable 'add_as_app_certificate' to process the list.

- **timeoutSeconds** - (optional, default is **10**) the number of seconds after which the truenas client calls fail

- **debug** - (oprional, default is **false**) debug logging if true

NOTES

This tool uses the TrueNAS Scale JSON-RPC 2.0 API and the TrueNAS client API module. Supports versions of *TrueNAS 25.04* or later

See Also:
+ TrueNAS api_client_golang + TrueNAS websocket API documentaion

Clone this repository and build the tool using *go build*

Contact

John J. Rushford jrushford@apache.org