

OSDP Test VM Operating Guide

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Overview

- it's a 64-bit debian 7 vm.
- it's shipped as an ova file, exported from virtualbox
- it's set up to just run. You don't need to operate it. It was meant to be useful to share as a fixed-function VM e.g. useful for any dev team, linux or not.

Installation

TLS configuration

- fixed certs used, files shipped on the vm. test root included.
- uses gnutls latest configuration, supports TLS 1.2, AES-128-GCM
- configured with default pre-shared interim key from libosdp github repo

OSDP configuration

assumes pd is at address 0.

no secure channel (secured instead by TLS.)

vm set-up

```
ip address 10.2.0.200
gateway 10.0.0.1
dns: none
login: user osdp, password osdp.
    You have sudo. Root password is also osdp.
```

1. make sure virtualbox is running on your host platform
2. import the vm
3. make sure the vm's first ethernet interface is bridged to a real ethernet
4. start the vm
5. ping 10.2.0.200 from elsewhere on the network to confirm connectivity. It does respond to ping. Note: it's got ports 22,80 and 10443 open if you nmap scan it.

vm operation

- use a browser to access <http://10.0.0.200/open-osdp-CP.html>. There is a primitive html/cgi-based UI on an apache web server on port 80. No authentication, this is an un-insulated engineering testbed.
- the "display status" link will spawn a second page with current CP status

Demonstration

- start the vm
- ping it to confirm it's alive
- go to the web UI
- start the status page
- from a PD, connect to the CP.
 - console access can show the incoming connection
 - use network trace tool to show the TLS traffic
- from the PD, present a badge (raw format, 26 bit)
- observe the status change on the CP status web page.
 - console access can show the diagnostic log

Contents

- ova file
- /home/osdp is where everything is built
- setup directory is necessary extras
 - includes open source
 - includes platform set-up (apache config, etc.)
- libosdp-1.0build4 is sources
- runs out of /opt/open-osdp/run/CP
- started at boot time from /etc/rc.local (calls file /opt/open-osdp/bin/up.osdp)
- uses open source components: gnutls, nettle, libtasn, jansson