Architecture discussion for Non-Permanent NetConf Sessions

This page supports the discussion about the solution as started by Brian Freeman Invited Robert Varga and other...

Target: No changes needed on OpenDaylight itself

Thanks to plantUml! 2019-07-16 | o-ran-sc.org

O-RAN-SC How to implement non-permanent NetConf sessions using ODL Network OpenDaylight ODL NetConf Client Customer NetConf Adapter NetConf Server Target subject of the discussion non-permanent NetConf Session The adapter keeps the SSH TLS session to ODL, identifiies ODL-NetConf-KeepAlives and anwers them. Consequence: - From ODL point of view the MountPoint is the Adapter. Details about port ranges and Handover to another "master" permanent NetConf Session of the NetConf session in an ODL cluster to be discussed. Is the Adapter instanciated per MountPoint or does the Adapter terminate more than one NetConf session? - How are the TLS certificates, private keys handled between NetConf-Server, Adapter, NetConf Client? Details starting from NO CONNECTION Establish SSH/TLS Establish \$SH/TLS [010] Hello Message [020] Hello Message **[030]** Capa<mark>bilites</mark> **[040]** Capabilites [050] Close session - Terminate NetConf/TLS/SSH [every 120s] loop [060] NetConf keep-alive request [070] NetConf keep-alive response [080] < rpc> request [090] Establish SSH/TLS [100] Hello Message [110] Capabilites

[120] Analyse capability changes [130] inform in case of capability changes [140] < rpc> request <mark>[150] <rpc></mark> response [160] < rpc > response [170] Close session - Terminate NetConf/TLS/SSH [every 120s] [180] NetConf keep-alive request [190] NetConf keep-alive response [200] Close session - Terminate NetConf/TLS/SSH ODL NetConf Client Customer NetConf Adapter NetConf Server