Registration troubleshooting

After Initializing the enclave like so Copy SCRT_ENCLAVE_DIR=/usr/libsecretdinit-enclave (orSCRT_ENCLAVE_DIR=/usr/lib secretd init-enclave | grep -Po 'isvEnclaveQuoteStatus":".+?"") An outtput like this should be generated: (orisvEnclaveQuoteStatus":"SW_HARDENING_NEEDED") Where the important fields areisvEnclaveQuoteStatus andadvisoryIDs. This is are fields that mark the trust level of our platform. The acceptable values for theisvEnclaveQuoteStatus field are: SW_HARDENING_NEEDED With the following value accepted fortestnet only: · GROUP OUT OF DATE For the statusCONFIGURATION_AND_SW_HARDENING_NEEDED we perform a deeper inspection of the exact vulnerabilities that remain. The acceptable values for mainnet are: "INTFL-SA-00334" "INTEL-SA-00219" Consult with the Intel API for more on these values If you do not see such an output, look for a file calledattestation cert.der which should have been created in yourHOME directory. You can then use the commandsecretd parset check the result a súccessful result should be a 64 byte hex string (e.g.0x9efe0dce89447514d6514c05d1161cea15c461c62e6d72a2efabcc6b85ed953b What to do if this didn't work? 1. Runningsecretd init-enclave should have created a file calledattestation cert.der . This file contains the attestation report from above Contact us on the proper channels onscrt.network/discord The details we will need to investigate will include: 6 Hardware specs 7. SGX PSW/driver versions 8. · BIOS versions 9. The fileattestation cert.der 10. * 11. Troubleshooting Output is: Copy secretd init-enclave 2020-07-12 13:21:31,864 ERROR [go_cosmwasm] Error : (ERROR: failed to initialize enclave: Error calling the VM: SGX_ERROR_ENCLAVE_FILE_ACCESS Make sure you have the environment variableSCRT_ENCLAVE_DIR=/usr/lib set before you runsecretd Output is: Copy secretd init-enclave ERROR [wasmi_runtime_enclave::crypto::key_manager] Error sealing registration key ERROR [wasmi_runtime_enclave::registration::offchain] Failed to create registration key 2020-07-12 13:37:26,690 ERROR [go_commussm] Error : (ERROR: failed to initialize enclave: Error calling the VM: SGX_ERROR_UNEXPECTED Make sure the directory~/.sgx_secrets/ is created. If that still doesn't work, try to create/root/.sgx_secrets Output is: Copy secretd init-enclave ERROR [wasmi_runtime_enclave::registration::attestation] Error in create_attestation_report: SGX_ERROR_SERVICE_UNAVAILABLE ERROR [wasmi_runtime_enclave::registration::offchain] Error in create_attestation_certificate: SGX_ERROR_SERVICE_UNAVAILABLE ERROR: failed to create attestation report: Error calling the VM: SGX_ERROR_SERVICE_UNAVAILABLE Make sure theaesmd-service is runningsystemctl status aesmd.service Output is: Copy secretd init-enclave Creating new enclave registration key 2021-07-27 02:37:24,017 INFO [cosmwasm_sgx_vm::seed] Initializing enclave.. 2021-07-27 02:37:25,962 INFO [cosmwasm_sgx_vm::seed] Initialized enclave successfully! ERROR [wasmi_runtime_enclave::registration::cert] Platform is updated but requires further BIOS configuration ERROR [wasmi_runtime_enclave::registration::cert] The following vulnerabilities must be mitigated: ["INTEL-SA-00161", "You must disable hyperthreading in the BIOS", "INTEL-SA-00289", "You must disable overclocking/undervolting in the BIOS"] Platform status is SW_HARDENING_AND_CONFIGURATION_NEEDED. This means is updated but requires further BIOS configuration Please disable hyperthreading and overclocking/undervolting (Turboboost) in your BIOS.

This could mean a number of different things related to the configuration of the machine. Most common are:

I'm seeing CONFIGURATION AND SW HARDENING NEEDED in the isvEnclaveQuoteStatus field, but with more advisories than what is allowed

- ["INTEL-SA-00161", "INTEL-SA-00233"] Hyper-threading must be disabled in the BIOS
 ["INTEL-SA-00289"] Overclocking/undervolting must be disabled by the BIOS (sometimes known as Turboboost)
 ["INTEL-SA-00219"] Integrated graphics should be disabled in the BIOS we recommend performing this step if you can, though it isn't required

If you are still having trouble getting rid of INTEL-SA-00219 and INTEL-SA-00289, here are some possible settings to look for outside of the CPU settings:

- Primary Display = 'PCI Express'
 IGPU Multi-Monitor = Disabled
 Onboard VGA = Disabled

I'm seeing SGX_ERROR_DEVICE_BUSY

Most likely you tried reinstalling the driver and rerunning the enclave - restarting should solve the problem

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