KVM session timeout management for BMC development



[Problem phenomenon]

In the MDS project, the KVM Session timeout mechanism feature has been configured, and the timeout period is set to 1800s. After starting the KVM and no operation is performed for 30 minutes, the KVM interface can still be operated normally.

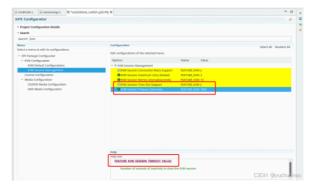


Figure 1

[Problem Analysis]

FEATURE_KVM_SESSION_TIMEOUT has been enabled in the PRJ file, but the entire mechanism does not work. It is necessary to sort out the operation process of the mechanism and search for the feature globally. The function code is finally located as shown in Figure 2: adviserd|man.c-->start_own_timer_thread()-->session_timercall()

```
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```

Figure 2

Adding print information found two problems:

- 1. The program does not start the thread start_own_timer_thread()
- 2. The timeout modified in PRJ cannot be synchronized to Adviserconf. Session Inactivity Timeout

Therefore, the above two problems are the root causes of the failure of the KVM Session timeout mechanism.

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Figure 3

[Problem solving]

Question 1:

Locate the value FEATURE_KVM_SESSION_TIMEOUT of the global variable g_corefeatures.kvm_session_timeout and find that it is obtained from the /tmp/platform/conf/core_features file, but the configuration in PRJ is synchronized to the /etc/core_feature file, so the configuration in /etc/core_feature needs to be synchronized to /tmp/platform/conf

Question 2:

The parameter Adviserconf.SessionInactivityTimeout is read from /conf/ncml.conf, but the timeout in PRJ is not synchronized to the ncml.conf file. You need to update this value in ncml_configuration/dev-install.py.



Figure 4

[Verification method]

Open KVM: PRJ timeout is set to 1800

After 30 minutes of inactivity without any mouse or keyboard operation, a pop-up window will appear on the KVM page, as shown below:



Figure 5

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