Suricata - Bug #3164

Suricata 4.1.4: NSS Shutdown triggers crashes in test mode

09/14/2019 11:02 AM - Yujie Zhao

Status: Closed
Priority: Normal
Assignee: Yujie Zhao
Category: 
Target version: 4.1.5
Affected Versions: 4.1.4
Effort: 
Difficulty: 
Label: 

Description
I'm trying to upgrade from Suricata 4.1.3 to 4.1.4. Both are built on the same Linux server. When I run Suricata 4.1.4, it always crashes at exit when NSS_Shutdown() is called. Seems NSS is not initialized successfully for 4.1.4.

Suricata 4.1.3 doesn't have this problem.

Related issues:
Copied to Bug #3189: NSS Shutdown triggers crashes in test mode (5.x) Closed

History
#1 - 09/16/2019 02:07 PM - Yujie Zhao
I'm running Suricata 4.1.4, and that's related to the problem.

It seems Suricata 4.1.4 won't initialize NSS in the testing mode, but 4.1.3 will.

#2 - 09/16/2019 02:58 PM - Yujie Zhao
Here is the root cause:
In 4.1.3, Suricata exits directly in the test mode:

```c
if (suricata.run_mode == RUNMODE_CONF_TEST)
    SCLogNotice("Configuration provided was successfully loaded. Exiting.");
#endif
MagicDeinit();
exit(EXIT_SUCCESS);
```

In 4.1.4, the code is changed to support the engine analysis mode. Suricata doesn't exit directly, and instead it tries to clean up and that calls NSS_Shutdown() and triggers the crash.

```c
if (suricata.run_mode == RUNMODE_ENGINE_ANALYSIS)
    goto out;
else if (suricata.run_mode == RUNMODE_CONF_TEST)
    SCLogNotice("Configuration provided was successfully loaded. Exiting.");
    goto out;
```

#3 - 09/16/2019 07:04 PM - Yujie Zhao
Yujie Zhao wrote:

I'm running Suricata 4.1.4, and that's related to the problem.

It seems Suricata 4.1.4 won't initialize NSS in the testing mode, but 4.1.3 will.

#4 - 09/16/2019 08:04 PM - Jason Ish
- Assignee set to Yujie Zhao
#5 - 09/17/2019 12:43 PM - Yujie Zhao
- Subject changed from Suricata 4.1.4: NSS not initialized to Suricata 4.1.4: NSS Shutdown triggers crashes in test mode

#6 - 09/20/2019 09:44 PM - Andreas Herz
- Target version set to TBD

#7 - 09/23/2019 11:36 AM - Victor Julien
- Status changed from New to Closed
- Target version changed from TBD to 4.1.5

https://github.com/OISF/suricata/pull/4208#issuecomment-534060649

#8 - 09/23/2019 11:36 AM - Victor Julien
- Copied to Bug #3189: NSS Shutdown triggers crashes in test mode (5.x) added