Suricata - Bug #3164

Suricata 4.1.4: NSS Shutdown triggers crashes in test mode

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

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Yujie Zhao</td>
</tr>
<tr>
<td>Category:</td>
<td></td>
</tr>
<tr>
<td>Target version:</td>
<td>4.1.5</td>
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<td>Affected Versions:</td>
<td>4.1.4</td>
</tr>
<tr>
<td>Difficulty:</td>
<td></td>
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<td>Label:</td>
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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.");
    #ifdef HAVE_MAGIC
    MagicDeinit();
    #endif
    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