**Suricata - Feature #2698**

**hashh and hasshServer for ssh fingerprinting**

11/21/2018 11:50 AM - Victor Julien

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Vadym Malakhatko</td>
</tr>
<tr>
<td>Category:</td>
<td></td>
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<tr>
<td>Target version:</td>
<td>6.0.0beta1</td>
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<tr>
<td>Effort:</td>
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<tr>
<td>Difficulty:</td>
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<tr>
<td>Label:</td>
<td>Protocol</td>
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**Description**

As discussed at Suricon2018, it would be great to have JA3 for non-https as well. This ticket is for SSH.

The SSH parser currently doesn't really inspect the handshake, so it will be a bit of work probably.

**Related issues:**

- Related to Task #2685: SuriCon 2018 brainstorm
- Blocked by Feature #3445: Convert SSH parser to Rust

**History**

#1 - 11/21/2018 11:50 AM - Victor Julien
- Related to Task #2685: SuriCon 2018 brainstorm added

#2 - 11/21/2018 11:57 AM - Mats Klepsland

The JA3 equivalent for SSH is called hashs (and hashsServer for JA3s):
[https://github.com/salesforce/hassh](https://github.com/salesforce/hassh)

It would force me to learn some Rust, so it's a nice little project I think :)

#3 - 11/21/2018 11:57 AM - Mats Klepsland

- Subject changed from ja3/ja3s for ssh to hash and hashsServer for ssh fingerprinting

#4 - 01/27/2020 03:35 PM - Victor Julien
- Blocked by Feature #3445: Convert SSH parser to Rust added

#5 - 01/30/2020 01:44 PM - Victor Julien
- Label Protocol added

#6 - 04/06/2020 02:04 PM - Vadym Malakhatko

Developed a fully functional version of "hashs" on top of Feature #3445 branch (ssh-rust-v12), will rebase after ssh conversion will be finished.
[https://github.com/MalakhatkoVadym/suricata/tree/hassh-feature-2698-v1](https://github.com/MalakhatkoVadym/suricata/tree/hassh-feature-2698-v1)

#7 - 05/06/2020 11:55 PM - Vadym Malakhatko

Updated hashs on top of ssh-rust-v19
[https://github.com/MalakhatkoVadym/suricata-hassh/tree/hassh-feature-2698-v1](https://github.com/MalakhatkoVadym/suricata-hassh/tree/hassh-feature-2698-v1)

#8 - 07/07/2020 08:22 PM - Victor Julien

- Status changed from Assigned to Closed
- Assignee changed from Mats Klepsland to Vadym Malakhatko
- Target version changed from TBD to 6.0.0beta1
- Effort deleted (medium)
- Difficulty deleted (medium)

[https://github.com/OISF/suricata/pull/5141](https://github.com/OISF/suricata/pull/5141)