# 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>
</tr>
</thead>
<tbody>
<tr>
<td>Priority</td>
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</tr>
<tr>
<td>Assignee</td>
<td>Vadym Malakhatko</td>
</tr>
<tr>
<td>Category</td>
<td>Protocol</td>
</tr>
<tr>
<td>Target version</td>
<td>6.0.0beta1</td>
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<tr>
<td>Effort</td>
<td></td>
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<tr>
<td>Difficulty</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  
  - Assigned

- Blocked by Feature #3445: Convert SSH parser to Rust  
  - Closed

**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 hassh (and hasshServer for JA3s):

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 hassh and hasshServer 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 "hashh" 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

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

Updated hassh on top of ssh-rust-v19

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