### Suricata - Feature #2538

**dsize keyword improvements**

07/16/2018 02:47 PM - Cyrille Barbaux

<table>
<thead>
<tr>
<th>Status:</th>
<th>New</th>
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<tbody>
<tr>
<td>Priority:</td>
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<tr>
<td>Assignee:</td>
<td>Community Ticket</td>
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<tr>
<td>Category:</td>
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<tr>
<td>Target version:</td>
<td>TBD</td>
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<tr>
<td>Effort:</td>
<td>low</td>
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<tr>
<td>Difficulty:</td>
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#### Description

Today, dsize is limited to detect if a payload size is smaller, equal or larger than a single value.

In order to improve abnormal packets detection, signatures should be able to:
- Detect if dsize is different than a specified value.
- Allow multiple dsizes in the same signature.

For example, I've got 2 use-cases from real world.

I've got an industrial protocol that uses the same payload size in every packet, let's say 100B. Today, I've got to write 2 rules, one with "dsize<100;" and a second one with "dsize>100;" as multiple dsizes are not allowed in the same signature.

It would be nice to write a single rule with dsize:!100;

Another protocol uses only 2 payload sizes, depending on the packet type, let's use 100B and 150B. I cannot detect the full range of anomaly with the current implementation.

The improvement should allow to write: "dsize:!100; dsize:!150;" or "dsize:!([100,150]);" in the signature.

#### History

**#1 - 07/16/2018 02:54 PM - Victor Julien**

- Subject changed from dsize improvements to dsize keyword improvements
- Assignee set to Anonymous
- Target version set to TBD
- Effort set to low
- Difficulty set to medium

Difficulty is mostly in the interaction with the prefilter functionality.

**#2 - 02/23/2019 10:03 PM - Andreas Herz**

- Assignee set to Community Ticket