Zabbix: When it comes to scalability

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If your system is growing larger and larger...

- Add Zabbix proxies
- Add Zabbix servers and switch to multi-node architecture
- Optimize DB performance
- Add IOPS to your storage
- Reduce the number of monitoring items
- Think about NoSQL solution
## Monitoring System General Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Current State</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. No delayed delivery of monitoring data</td>
<td>Data delays may happen due to high load</td>
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<tr>
<td>2. High performance while accessing latest data</td>
<td>Some pages are processing too long</td>
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<tr>
<td>3. Scaling should not affect performance</td>
<td>More items affects overall performance</td>
</tr>
<tr>
<td>4. Custom reporting should not affect performance</td>
<td>Large reports may affect overall performance</td>
</tr>
</tbody>
</table>
Distributed Architecture
Sharding with MongoDB

- MD_1_1
- MD_1_2
- MD_1_3
- MD_2_1
- MD_2_2
- MD_2_3
- MD_3_1
- MD_3_2
- MD_3_3
- MC_1
- MC_2
- MC_3
Advantages

• System becomes scalable with MongoDB
• No data delays and no gaps even with high load
• Save really long period of history data
• Reads from and writes to history may be separated
Disadvantages

- Templates synchronization is tricky
- Custom consolidated dashboard for triggers
- Zabbix frontend needs changes for viewing historical data
Questions?
Thank you!