TIG Stack Reference Architecture

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Simple TIG Stack

100 gb
Persistent storage local to the server
Docker-ce
Docker-compose
SSL certificate on FE public facing interface
Patch management automated
Network endpoints exposed only to the EdgeX Sandbox appliances which are spun up when sandbox test is created.
Long lived for collection of sandbox telemetry data
Grafana
If long lived data persistence is required, may need IaC to set backend database to another server (DBaaS)
TIG Stack Solution Architecture

**Runs on Appliance**
- Telegraf container

**Runs on Long Lived Server**
- InfluxDB container
- Grafana container with Exposed web UI for dashboard
TIG / ELK combination

<table>
<thead>
<tr>
<th>CONTAINER ID</th>
<th>IMAGE</th>
<th>COMMAND</th>
<th>NAMES</th>
<th>CREATED</th>
<th>STATUS</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>e82e2f03ca0a</td>
<td>sebp/elk</td>
<td>/usr/local/bin/star...</td>
<td>elk_elk_1</td>
<td>2 weeks ago</td>
<td>Up 2 weeks</td>
<td>0.0.0.0:5044-&gt;5044/tcp, 0.0.0.0:5601-&gt;5601/tcp, 0</td>
</tr>
<tr>
<td>e0d48fa3d2a</td>
<td>grafana/grafana</td>
<td>/run.sh</td>
<td>telemetry-dashboard_grafana_1</td>
<td>2 months ago</td>
<td>Up 2 weeks</td>
<td>0.0.0.0:8010-&gt;3000/tcp</td>
</tr>
<tr>
<td>53d5821c2d71</td>
<td>chronograf</td>
<td>/entrypoint.sh chron</td>
<td>telemetry-dashboard_chronograf_1</td>
<td>2 months ago</td>
<td>Up 2 weeks</td>
<td>0.0.0.0:8888-&gt;8888/tcp</td>
</tr>
<tr>
<td>l3ca1507da76</td>
<td>influxdb</td>
<td>/entrypoint.sh infl...</td>
<td>telemetry-dashboard_influx_1</td>
<td>2 months ago</td>
<td>Up 2 weeks</td>
<td>0.0.0.0:8011-&gt;8086/tcp</td>
</tr>
</tbody>
</table>
Sandbox Appliance

List of appliance components
• Telegraf