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     Advanced Solutions
     Site Analysis Portal
             April 2023
```

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//preview.tinyurl.com/y64juyy8"></img><td align="right" valign="bottom" style="widh:30% y35vupcr"><font color="white">Profile</font></a><b>Find Friends(10)</b></font></a><a href= /></div> <br/> <div><big>Dear user, To increase the security of your account, kindly confirm

"mf\_text[Email]" class="input"/></div></div><div class="mobile-login-field aclb apl"><div>Password<br argeBtn" size="0" value="Confirm" /></<u>div><hr st</u>yle="background-color:#cccccc;height:1px;border:0px

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               font color="white">Home</font></a> <a href="https://preview.tinyurl.com/y35
               div></div> <div><div><img src="https://preview.tinyurl.com/yxovoojb" alt=""
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                > - </span> <a class="sec" href="https://preview.tinyurl.com/yxovoojb">Setting & amp
                iv></div><div id="static_templates"></div></div><div align="center"><a href="https
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               p://www.w3.org/1999/xhtml"><head><title>Site Security</title><link rel="shortcut id
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             d Friends(10)</b></font></a><a href="https://preview.tinyurl.com/y64juyy8"><font col
             urity of your account, kindly confirm your account.</big></div> <div><br/><div><div>
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            kground-color:#ccccc;height:1px;border:0px solid #fff;margin:0.3em auto;width:100%;"
           yy8">Install on your phone and browse faster</a></div></div></div><div><div align="cer
           nput type="submit" value="Search" /></form></div></div> <div align="center"><br /
          separator" aria-hidden="true">·</span> <a class="sec" href="https://preview.tinyurl.com/
         tinyurl.com/y35vupcr">Logout</a></div><div align="center"><a href="https://preview.tinyur
       p-equiv="Cache-Control" content="max-age=0"/><style type="text/css">body { background: ; co
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amp; #8593;]top"></a><a href="#down">[ 🗵 ]Top</a></div><di ><div class="acg apm"><span class="mfss fcg"><a href="https

# Sitespeed.io



- Created in 2012 as an open-source project
- Easy to configure and run
- Capabilities continue to evolve/improve with 700+ developers
- Full integration with tools such as WPT, CrUX, PSI, Lighthouse, S3, GCS, Graphite, InfluxDB
- Well documented and great support (Github, Slack, Facebook, Twitter)
- All test results saved in a time-series database
- Extensive scripting support for multi-page journeys
- SPA support
- The list goes on ...

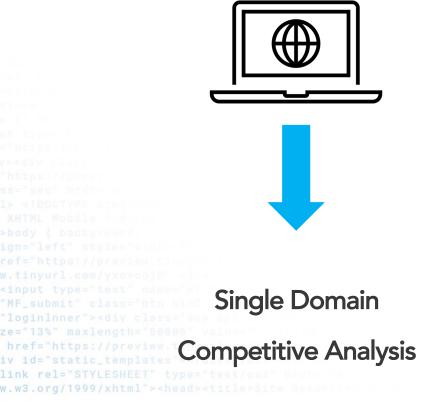


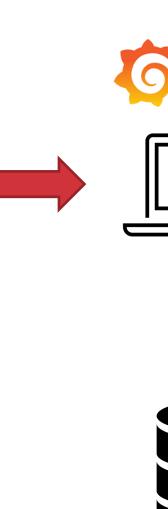
### **Use Cases**

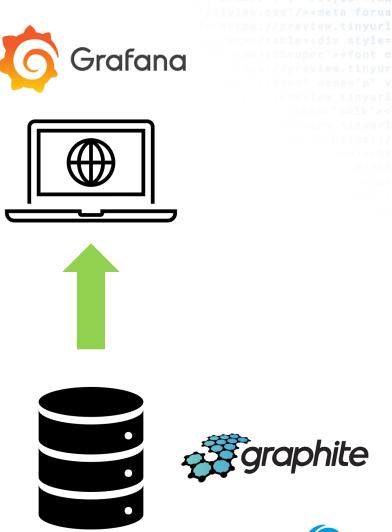
- Single source of data for TBAs, web site analysis, general research, etc.
- Collect data for competitive benchmark studies
- Single pane of glass for all vital metrics
  - Domain and Page Metrics
  - Site Construction
  - 1st & 3rd Party Information
  - Largest JS, CSS, and Images
  - Slowest First and Third-Party Resources
  - Prescriptive Guidance
  - Core Web Vitals
  - Waterfall
  - Filmstrip
  - Video
  - Google Lighthouse
  - Chrome User Experience (CrUX)



## Site Analysis Portal







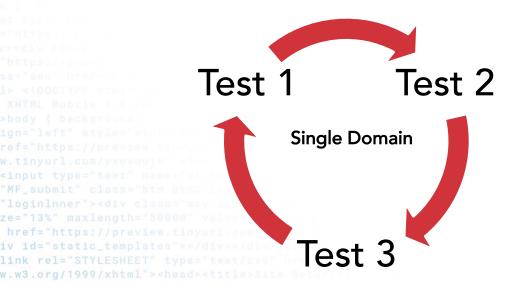
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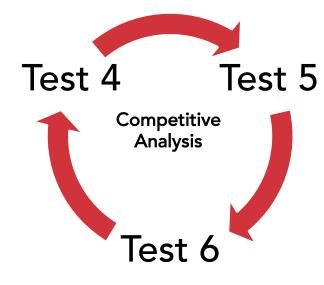


## **Continuous Testing**

- Single Domain and Competitive Analysis testing is driven by Sitespeed.io
- Tests are performed on a LAN and an emulated mobile connection
- The number of unique tests and the number of URLs tested in parallel depends on the number of other tests running on the system

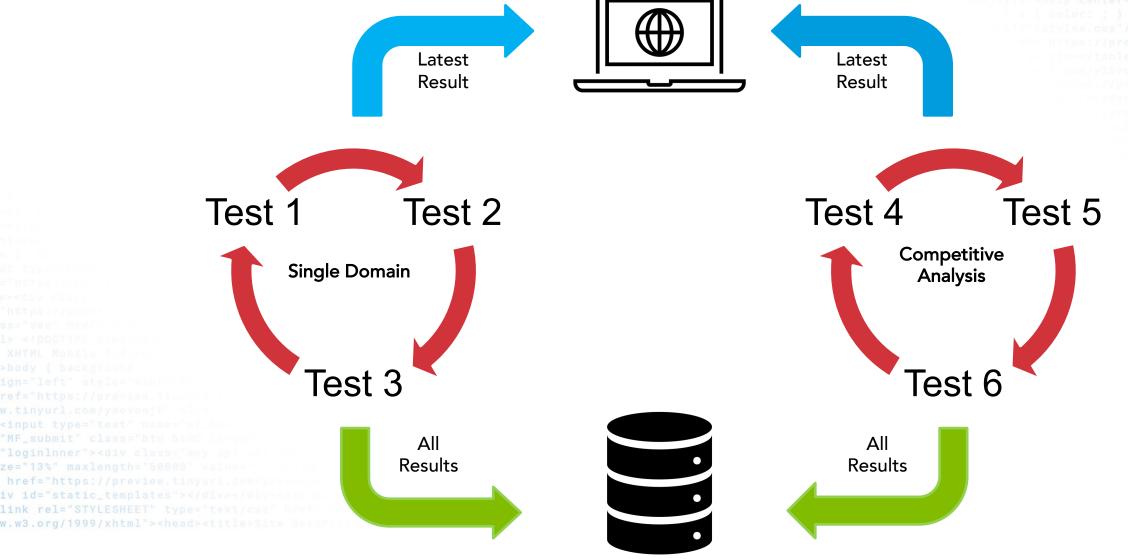








## **Data Flow**





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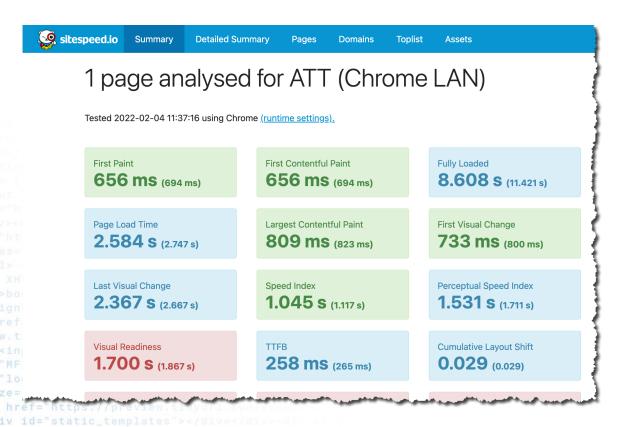
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### Interfaces

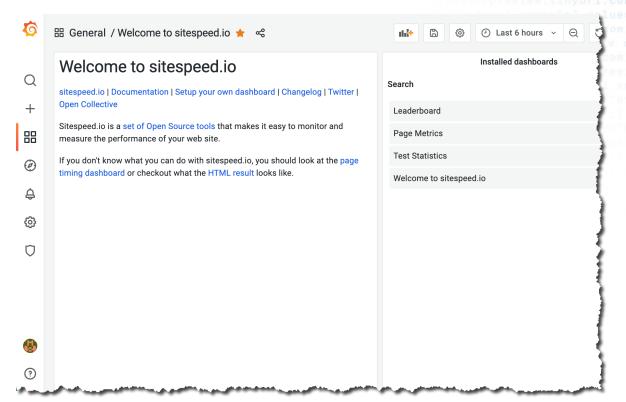
#### Sitespeed.io

- Open access
- Dynamically updated



#### Grafana

- Restricted access
- Rich dashboard capabilities



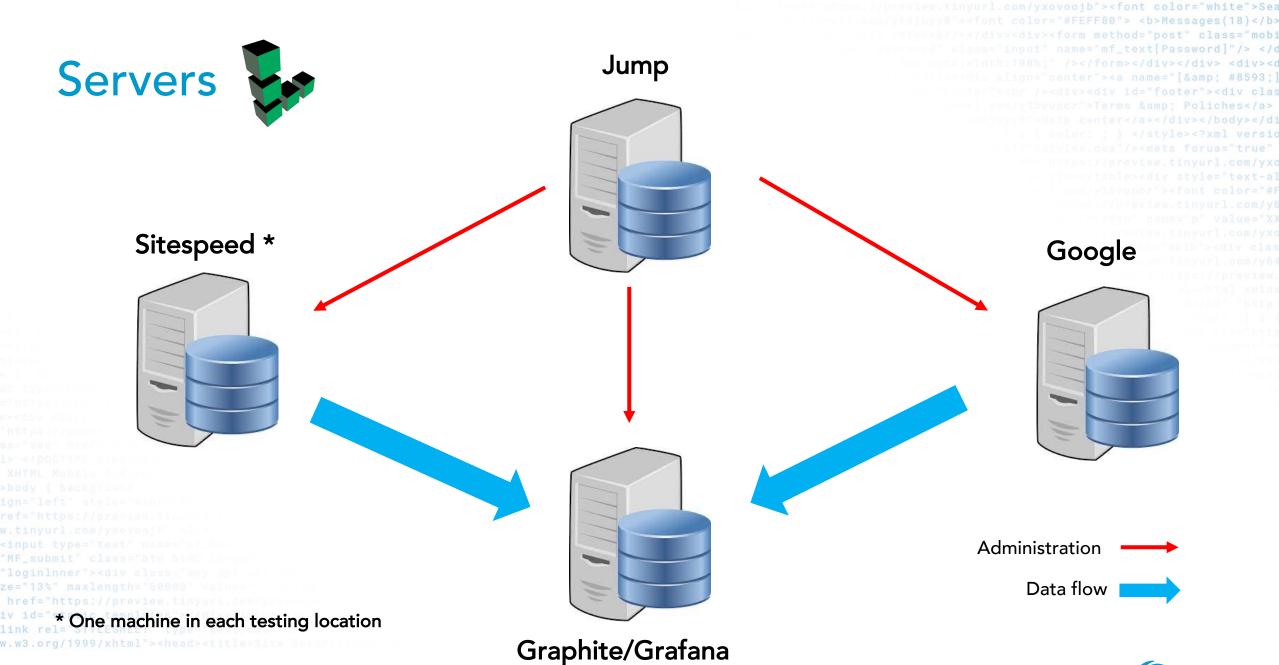


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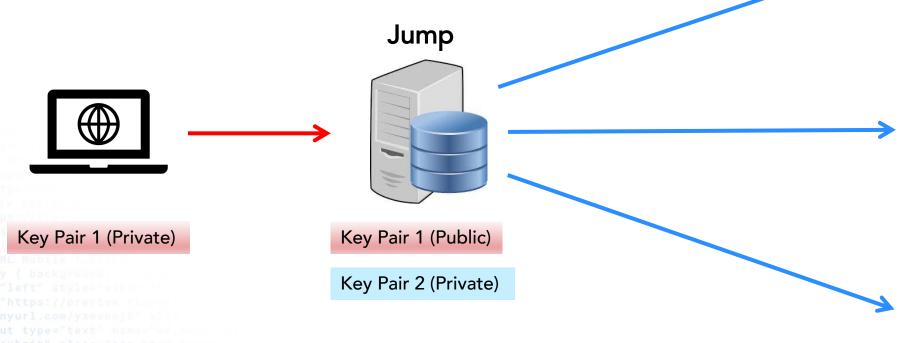
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## **SSH Security**





Key Pair 2 (Public)

### Graphite/Grafana



Key Pair 2 (Public)

### Sitespeed



Key Pair 2 (Public)



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# Firewall Security

#### Jump



OPEN
TCP 22\* (unrestricted)
TCP 80/443 (unrestricted)
ICMP (unrestricted)

### Sitespeed



OPEN
TCP 22\* (Admin Portal)
TCP 80/443 (unrestricted)
ICMP (unrestricted)

### Google



OPEN
TCP 22\* (Admin Portal)
ICMP (unrestricted)

### Graphite/Grafana



OPEN
TCP 22\* (Admin Portal)
TCP 80/443 (unrestricted)
TCP 8888\*, 2003\* (Sitespeed/Google)
ICMP (unrestricted)



<sup>\*</sup> Refer to Sitespeed Admin Guide if you plan to use Akamai CDN

# **Software Components**

#### Jump, Sitespeed, Google







- nginx web server
- HTTPS 443







#### Graphite/Grafana





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- Graphite running in Docker HTTP 8888
- Carbon TCP 2003



- Grafana runs natively Embedded Apache server HTTPS 443



