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Advanced Solutions
Site Analysis Portal
      April 2023
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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 ...

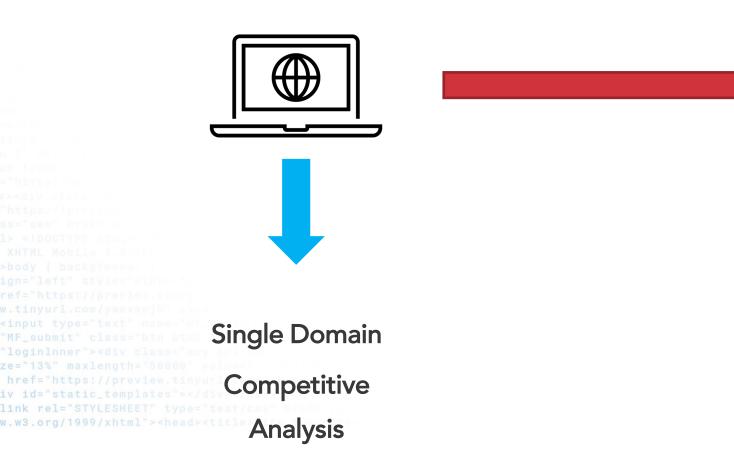


Use Cases

- 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











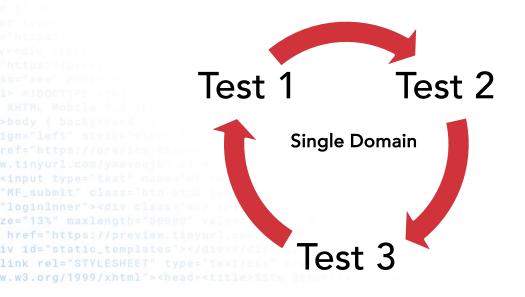
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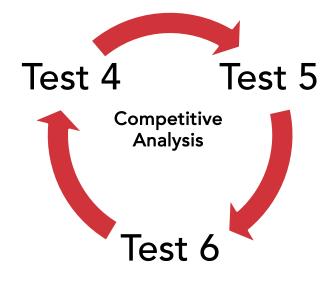


Continuous Testing

- 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

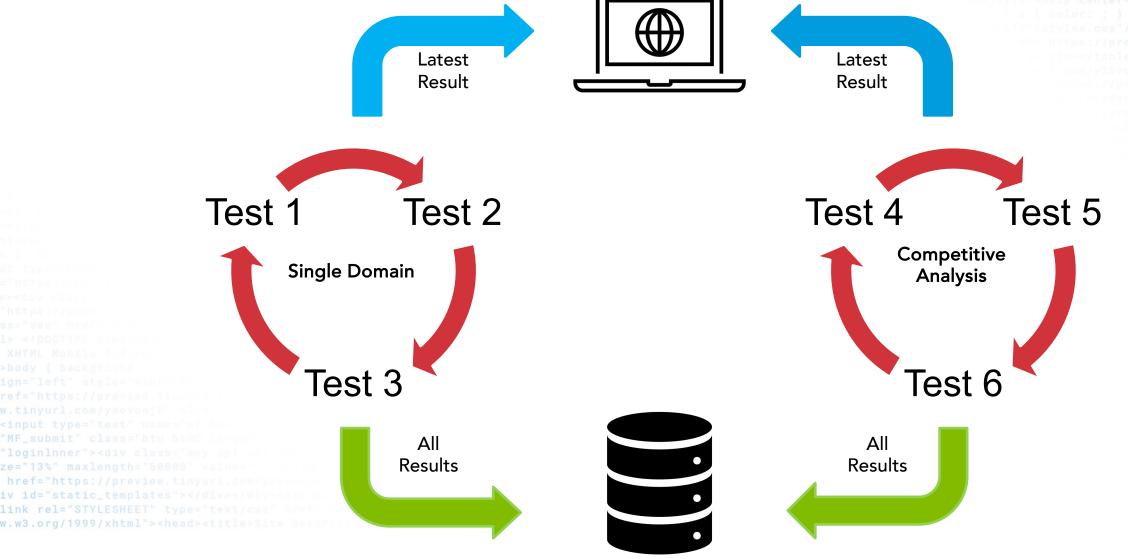








Data Flow





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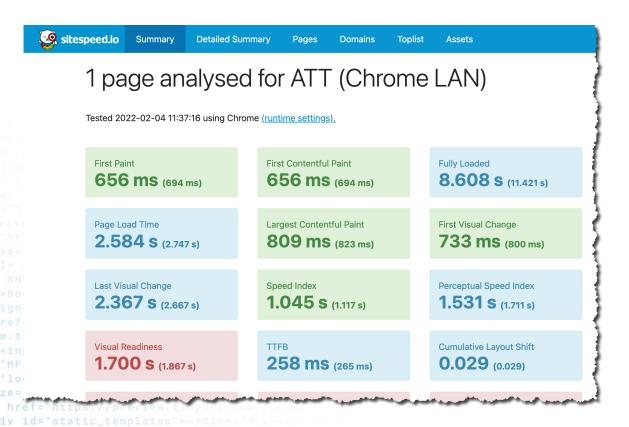
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Interfaces

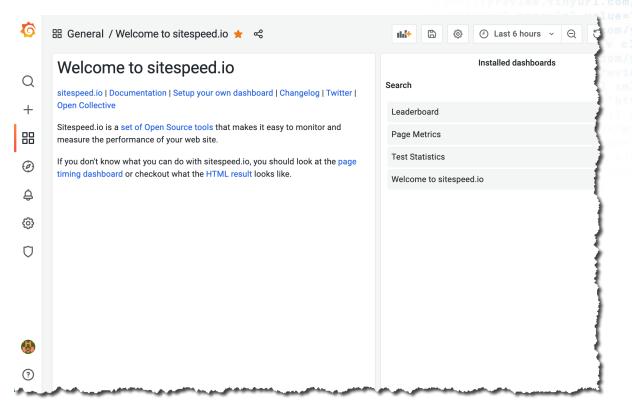
Sitespeed.io

- Open access
- Dynamically updated



Grafana

- Restricted access
- Rich dashboard capabilities



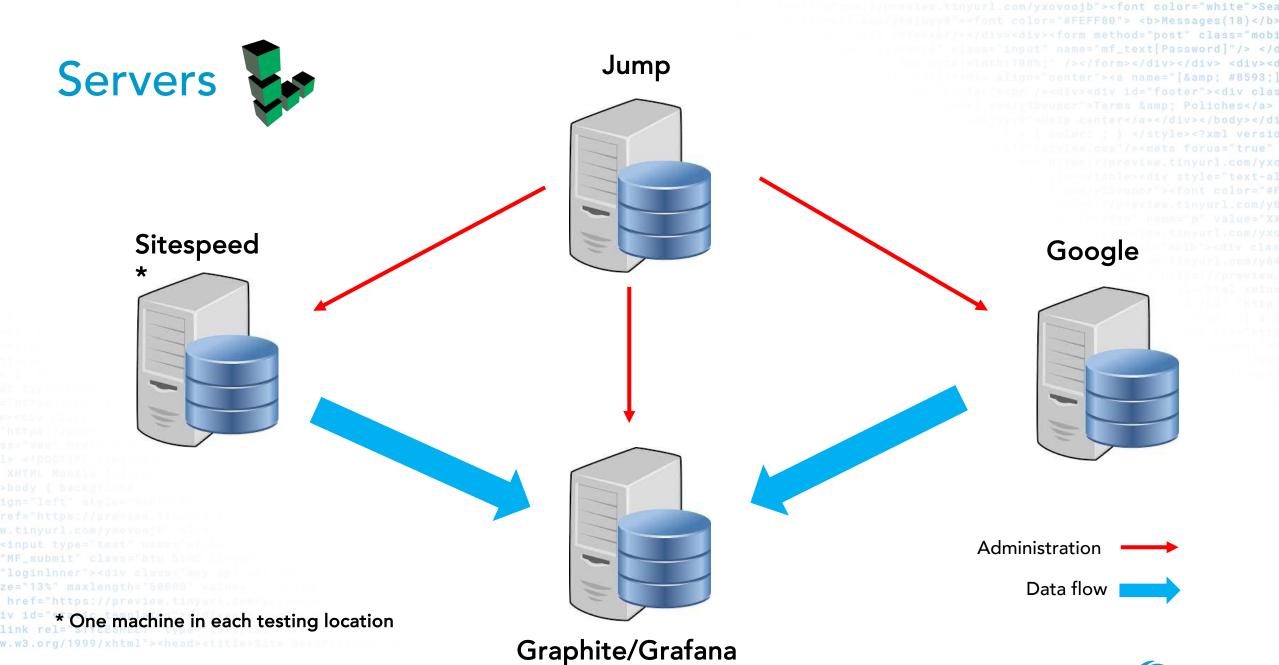


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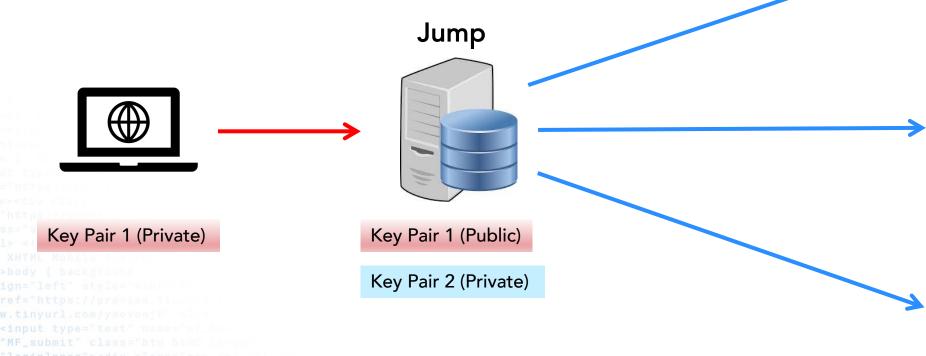
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SSH Security







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)



^{*} Refer to Sitespeed Admin Guide if you plan to use Akamai CDN

Software Components

Jump, Sitespeed, Google







- nginx web server
- HTTPS 443





Graphite/Grafana





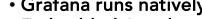
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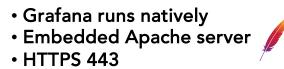
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graphite

Carbon TCP 2003













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