Browser Synthetic Monitoring

Related pages:
- Browser Synthetic Monitoring Versus Browser Real User Monitoring
- Get Started with Browser Synthetic Monitoring

Browser Synthetic Monitoring uses geographically distributed Synthetic Agents to continuously test key user workflows in your application. This allows you to monitor the correctness and performance of multi-step flows independently of the user-generated load.

There are two ways of using Synthetic:

- **Scheduled jobs**: Use this to test your pages on a recurring basis to ensure they continue to perform well. Upload a Python WebDriver script to exercise multi-step workflows. Using this feature requires a Synthetic Pro license. See Browser Synthetic Licenses for more information.

- **On-demand snapshots**: Use this to collect performance data right now. This is useful for ad-hoc analysis. This feature is available with both Synthetic Lite and Pro licenses.

There are two deployment types for Synthetic Agents:

- **Synthetic Hosted Agents**: AppDynamics hosts these Synthetic Agents. This deployment is recommended for testing public websites.
- **Synthetic Private Agents**: You install and host Synthetic Agents on your machines. This enables you to test internal sites and services. For more information, see Synthetic Private Agent Deployment.

Separate licenses are required for the Synthetic Hosted Agent and the Synthetic Private Agent. See Synthetic Agent Licenses for details.

Access Synthetic

1. Open the browser application that you want to test with Synthetic or create a new one if you’re just getting started.
2. Select one of the menu options under **SYNTHETIC** in the left navigation bar.

![Browser App Dashboard]

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**Scheduled Jobs**

The **Jobs**, **Sessions**, and **Pages** options are only displayed if you have a Browser Synthetic Pro license.

- **Jobs**: Create and manage recurring jobs. See [Get Started with Browser Synthetic Monitoring](#).
- **Sessions**: View individual executions of your jobs (i.e., “sessions”) and perform an analysis to understand where the problems are.
- **Pages**: View aggregated page-level statistics collected from Synthetic. This is particularly useful for comparing Browser RUM with Synthetic.

> You can also see some synthetic results in the context of real user traffic in the [Browser App Dashboard](#).

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**On-Demand Snapshots**

Create and view on-demand snapshots using **On-Demand**.

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**Website Authentication Methods**

The following table lists the authentication methods that are supported and not supported in Synthetic Monitoring.

<table>
<thead>
<tr>
<th>Supported</th>
<th>Not Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Websites that authenticate through an explicit login page</td>
<td>Integrated Windows Authentication (see <a href="#">Windows Authentication</a>)</td>
</tr>
</tbody>
</table>

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Browser Support

- IE 11 (See Information about Explorer versions)
- Chrome 81.0.4044.0
- Firefox 72.0.1

Limitations

Browser Extensions

Browser Synthetic Monitoring does not support monitoring for the browser extensions Adobe Flash, Microsoft Silverlight, or Java applets.

Single-Page Applications (SPAs)

Browser Synthetic Monitoring does not fully support SPA. Instead of reporting the base page and virtual pages separately like Browser RUM does, Browser Synthetic Monitor reports all the virtual pages with the base page, so you will only see one page in the Synthetic Sessions.

Multiple Window Tests

Browser Synthetic Monitoring supports running tests in multiple windows for Firefox and Chrome, but not for Internet Explorer Browser.