



[Home](#) >  [\(/s/\)Captive Portal & Hotspot \(/s/topic/0TO570000009NsIGAE\)](/s/Captive Portal & Hotspot (/s/topic/0TO570000009NsIGAE)) > [Questions and Answers](#)

## How Automatic Detection of Captive Portal works

The Automatic Detection of Captive Portal mechanism is based on a simple verification, done by the Operational System (OS) of the client device (smartphone, tablet, laptop).

It simply tries to reach a specific URL and verify that such URL returns a well-known result.

- If a Captive Portal is not in place, the result will match the expected one and the OS will know that there is full access to internet.
- If the URL returns a result other than the expected one, then the OS will detect that there is a Captive Portal in place and that it's needed to proceed with authentication in order to get full access to internet: in this case the OS will open the Splash Page automatically.

### Differences between Client devices

All client devices use the above described strategy to find out if they are behind a captive portal, but the URL might vary depending on the specific model of smartphone, tablet, laptop and depending on the specific OS version.

In the following you can find a list of known domains contacted by each model in order to eventually trigger the captive portal.

#### Android Captive Portal Detection

- [clients3.google.com](https://clients3.google.com)
- [connectivitycheck.gstatic.com](https://connectivitycheck.gstatic.com)
- [connectivitycheck.android.com](https://connectivitycheck.android.com)

#### Apple iPhone, iPad with iOS 6 Captive Portal Detection

- [gsp1.apple.com](https://gsp1.apple.com)
- [\\*.akamaitechnologies.com](https://*.akamaitechnologies.com)
- [www.apple.com](https://www.apple.com)
- [apple.com](https://apple.com)

Good article?

👍 0

👎 0



#### Not found what you are looking for?

Browse our community about [Captive Portal & Hotspot \(/s/comtopic?id\\_topic=0TO2p0000001ZFiGAM\)](/s/comtopic?id_topic=0TO2p0000001ZFiGAM).

Apple iPhone, iPad with iOS 7, 8, 9 and recent versions of OS X

- [www.appleiphonecell.com](http://www.appleiphonecell.com)
- [\\*.apple.com](http://*.apple.com)
- [www.itools.info](http://www.itools.info)
- [www.ibook.info](http://www.ibook.info)
- [www.airport.us](http://www.airport.us)
- [www.thinkdifferent.us](http://www.thinkdifferent.us)
- [\\*.apple.com.edgekey.net](http://*.apple.com.edgekey.net)
- [\\*.akamaiedge.net](http://*.akamaiedge.net)
- [\\*.akamaitechnologies.com](http://*.akamaitechnologies.com)

#### Windows

- [ipv6.msftncsi.com](http://ipv6.msftncsi.com)
- [ipv6.msftncsi.com.edgesuite.net](http://ipv6.msftncsi.com.edgesuite.net)
- [www.msftncsi.com](http://www.msftncsi.com)
- [www.msftncsi.com.edgesuite.net](http://www.msftncsi.com.edgesuite.net)
- [teredo.ipv6.microsoft.com](http://teredo.ipv6.microsoft.com)
- [teredo.ipv6.microsoft.com.nsattc.net](http://teredo.ipv6.microsoft.com.nsattc.net)

#### NOTE:

Consider that you can disable the Automatic Detection of Captive Portal on specific client devices simply adding all the listed domains for that specific device to the additional **Walled garden** (</s/article/Walled-garden>).

To do so, please check this article:

**[How to enable/disable the Automatic Detection of Captive Portal and automatic opening of the Splash Page](/s/article/How-to-enable-disable-the-Automatic-Detection-of-Captive-Portal-and-automatic-opening-of-the-Splash-Page)** (</s/article/How-to-enable-disable-the-Automatic-Detection-of-Captive-Portal-and-automatic-opening-of-the-Splash-Page>).

[Home \(/s/\)](/s/) [FAQ \(/s/topic/OTO570000006altGAA/faq\)](/s/topic/OTO570000006altGAA/faq) [Glossary \(/s/glossary\)](/s/glossary)