VirtualBrowser

DATA SHEET

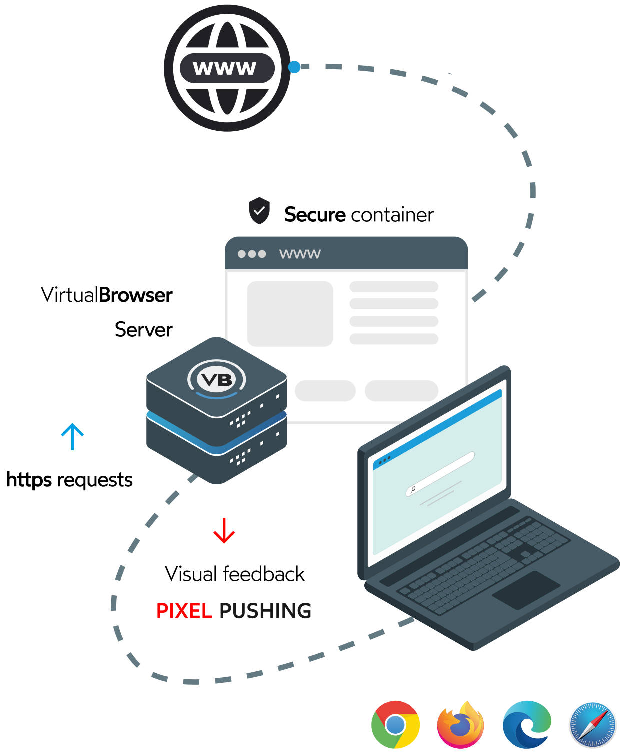
Secure Remote Browser Isolation

The web browser is a prime target for attackers, responsible for 60% of all online[1] attacks. In this context, Remote Browser Isolation (RBI) technology is an essential cybersecurity solution against web threats, without compromising the user experience.

Remote Browser Isolation is a cybersecurity model that physically isolates a user's browsing activity from his or her own computer. All content is executed remotely, away from the local network, and then transmitted to the user via a secure pixel stream. At the end of each browsing session, all activity is completely destroyed on the server.

When used to protect against untrusted content, Remote Browser Isolation significantly reduces an organization's attack surface, as a large number of attacks have shifted to users and endpoints. **In this way, VirtualBrowser proactively secures Internet browsing from cyberattacks.**

RBI solution also reduces risks by protecting sensitive data and applications accessed from untrusted devices.



Enhanced Security

Existing security solutions (SWG, CASB, ZTNA, etc.), while useful, are not foolproof against cyber-attacks. For example, they can potentially allow malicious content to run on the user's terminal.

Remote browser isolation effectively counters these threats.

In addition, VirtualBrowser can be used to :

- **Improve user experience by no longer blocking access to non-categorized sites,**
- **Reduce the risk of phishing attacks by isolating URLs received by email,**
- **Secure remote working by adding a control point for unmanaged devices,**
- **Replace a more expensive and complicated VDI solution.**

Multi-Layer Defense

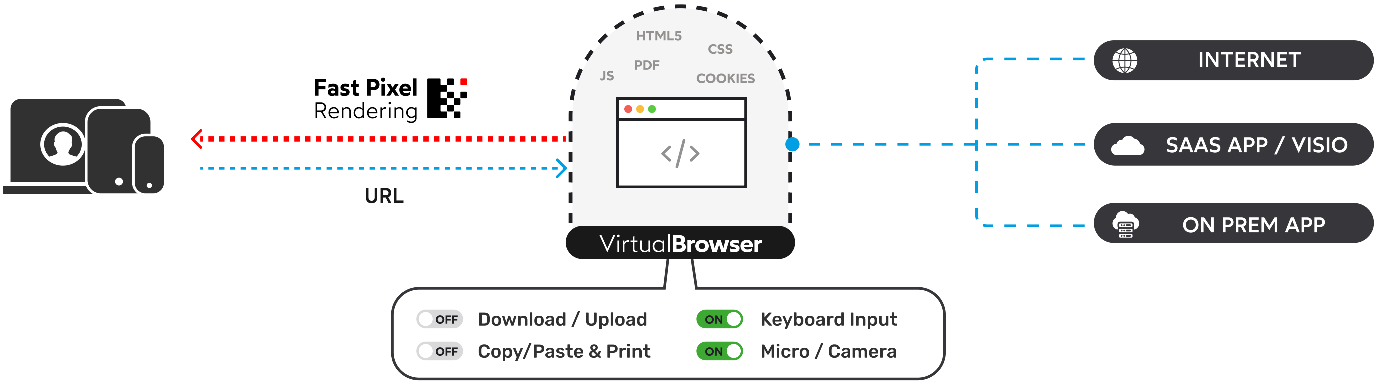
Isolating the browser from the end-user's workstation considerably improves the company's security posture against the following threats:

- **Malwares**
- **Phishing**
- **Malicious trackers**
- **Injection attacks**
- **Zero-Day**
- **Fingerprinting**
- **Drive-by Downloads**
- **Man-in-the-Middle (MitM)**

> " We estimate that organizations that isolate internet web browsing will experience a 70% reduction in attacks that compromise end-user systems. "
>
> Innovation Insight for Remote Browser Isolation - 2018
>
> Gartner

[1] Osterman Research. "Why You Should Seriously Consider Web Isolation Technology." December 2018.

Proactive cybersecurity model
to protect Internet browsing



Advanced Protection Features

Pro-active Navigation Security

VirtualBrowser transfers your users' Internet browsing to a remote virtual bubble, providing physical isolation between their computer and the resources accessed.

Granular Access Control

VirtualBrowser lets you fine-tune access policies and, according to your criteria, control user interaction:
Keyboard input, Copy/Paste, Download/Upload, Printing...

Device management (Camera, Microphone)

Simplified use of online videoconferencing solutions (Teams, Zoom, Gmeet, Webex, etc.), while eliminating the technical constraints associated with making these services available (network port opening).

Unique Rendering Technology

Unlike most traditional RBI solutions, which are based on the reconstruction of the Document Object Model (DOM) within the local browser, with a residual risk of malicious code execution, VirtualBrowser offers a more secure approach, **"Pixel Pushing"**.

All code - whether HTML, CSS, JavaScript, Cookies or even document viewing - is executed in a remote environment, isolated from the user's local network. **The final rendering is then transmitted as a video stream.**

Backed by over 10 years' expertise, VirtualBrowser has developed an innovative "FPR" **Fast Pixel Rendering** technology offering a seamless, optimized browsing experience.

Categorizing URLs

Customize your URL categories to be applied in your navigation rules.

User authentication

Allow your users to authenticate easily with their login (SAML/LDAP).

Anonymous Navigation

Protect yourself from malicious trackers and fingerprinting.

Everywhere, For everyone, Limitless

Compatibility

Works natively on any web page, in any browser.

Seamless

Agentless deployment, no plug-ins to install and zero change management. Seamless use for the end user.

Technical specifications

How it works

The user, through his local browser, makes a navigation request. Depending on the flow redirection rules set up by your company, the steps will be as follows:

1. **Interception of the browser request by the VirtualBrowser server**
2. **Explicit or transparent user authentication and VirtualBrowser launch**
3. **Creation of user container on VirtualBrowser server**
4. **Browsing actions by the user**
5. **Interception of actions by the container and navigation to the requested site**
6. **Render the page to the user via audio and video streaming**
7. **Closing the session**
8. **Destruction of container**

3 configuration modes

Local proxy chaining:
The client's proxy intercepts connections and decides to redirect all or part of the traffic to VirtualBrowser according to categories, users or other criteria it has defined. This possibility depends on the features offered by your proxy.

Proxy stations:
The VirtualBrowser server is the desktop proxy. It intercepts all connections and redirects them to VirtualBrowser. Browsing rules are set in the VirtualBrowser Management Platform.

Explicit mode:
From any terminal, users enter the URL of the VirtualBrowser server in a browser and authenticate themselves. They can then securely surf to any site from the remote VirtualBrowser server. This also enables secure access to your business applications for BYOD and untrusted devices.

Hosting

On Premise

- VirtualAppliance - Deployment < 10min
- Stand-alone or cluster architecture
- Secure external access to your sensitive business applications

SaaS

- 100% operated by Oodrive
- Hosting in France
- SAML authentication
- Shared or dedicated server
- GPU hardware acceleration

Easy deployment

Intuitive configuration and fast integration with your infrastructure.

Seamless user experience

Smooth browsing, with no compromise between security and performance.

Support & updates

Regular updates to meet new safety challenges.

Cost savings

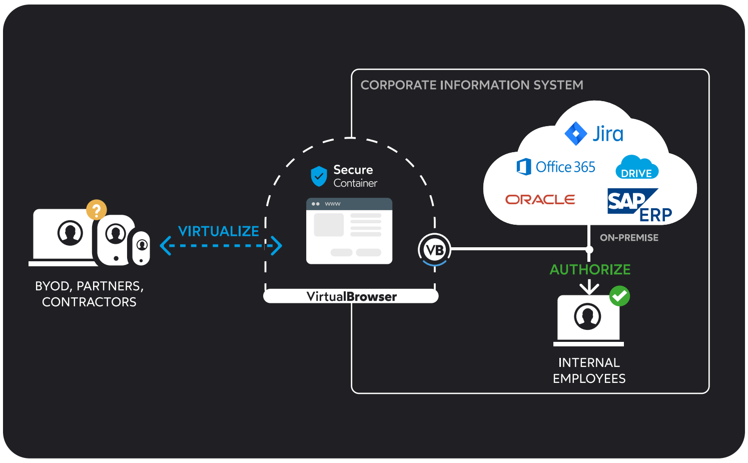
Minimize the cost of managing safety equipment.

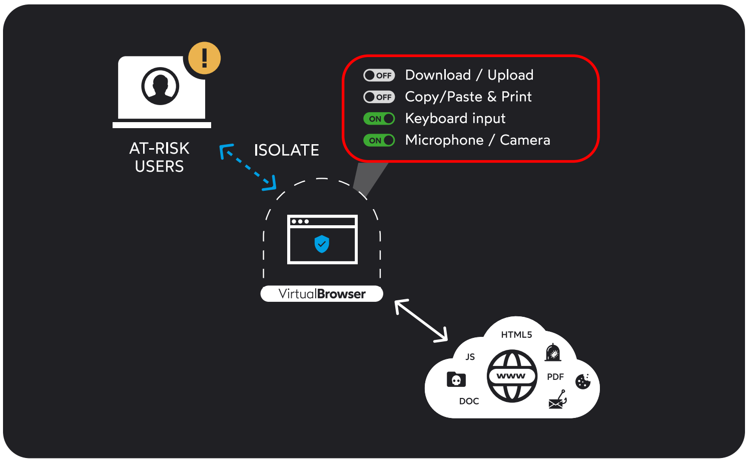
Use cases

Virtual access to your applications

VirtualBrowser secures your SaaS or On Prem applications and sensitive data used from unmanaged devices (BYOD, subcontractors, service providers).

- **Secure access to your business applications for your partners and subcontractors**
- **Enable mobile users to access sensitive data**
- **Prevent data exfiltration threats**





OFF Download / Upload
OFF Copy/Paste & Print
ON Keyboard input
ON Microphone / Camera

User station protection

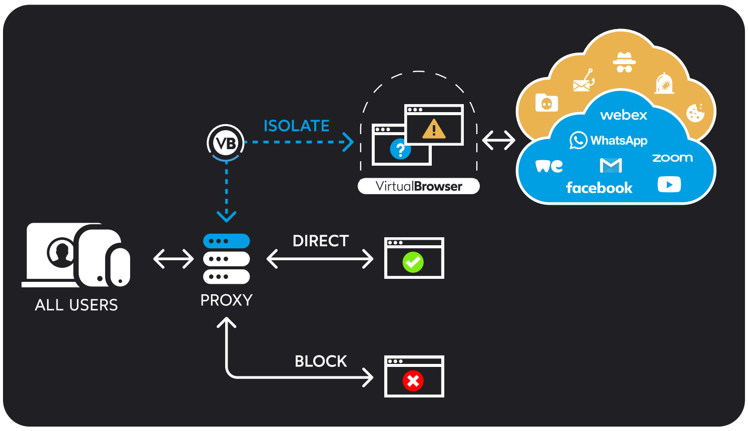
VirtualBrowser proactively protects the workstation against the main threats associated with Internet browsing (Phishing, Malware, Ransomware, Zero-Day...).

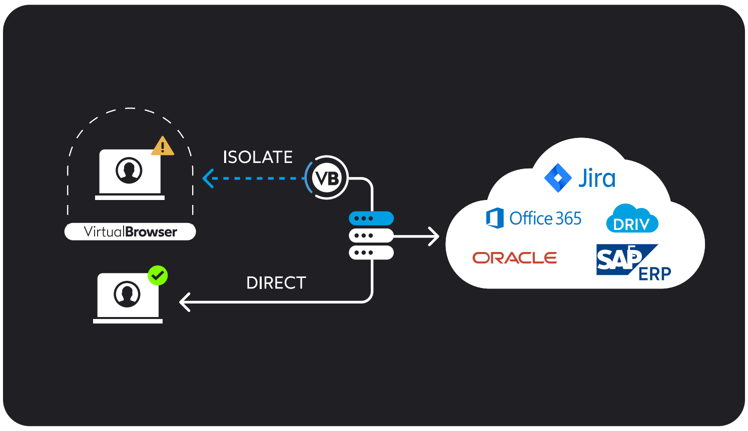
- **Authorize your sensitive users (Administrator, VIP, CERT) to access the Internet without risk**
- **Surf without risk, even on infected websites**
- **Secure your users when they travel to sensitive areas**

Secure access to high-risk websites

Extend your access policies to better manage personal browsing and simplify the handling of non-categorized sites.

- **Simplify handling of non-categorized sites**
- **Unlock your personal browsing access policies**
- **Avoid exposing sensitive data to ChatGPT**





Business continuity

VirtualBrowser enables you to continue your business in the event of a security incident, on your employees' workstations or the corporate network (PRA/PCA).

- **Access essential applications even with a compromised workstation**
- **Prevent propagation to other systems or networks**
- **Secure access to your applications from any terminal (BYOD) in the event of an IMPT incident**

VirtualBrowser oodrive

As part of the Oodrive group, a French publisher of a SecNumCloud-qualified trusted collaboration suite, VirtualBrowser is a pioneering solution in Remote Browser Isolation technology.Thanks to over 10 years of research and development, VirtualBrowser has acquired cutting-edge expertise in securing Internet browsing.

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