

Overview

Deploying applications on RStudio Connect is quick and convenient. However, this ease of deployment can introduce potential security risks. Every application deployed on RStudio Connect is effectively a web page and may pull in external resources from third-party websites. This behaviour can create vulnerabilities, allowing attackers to inject malicious code into applications.

The Jumping Rivers Web Application Security Platform enables organisations to monitor and control the external resources used by Shiny applications and R Markdown documents hosted on RStudio Connect.

When a user accesses any application on your RStudio Connect server, the platform silently compares the web page against a predefined list of approved external resources. For example, you may allow JavaScript files hosted by RStudio, but block resources served from platforms such as GitHub. This information is securely stored in either an on-premise or cloud-hosted database, and the results are visualised through an interactive Shiny dashboard.

Features

- Easy installation via an R package and header configuration compatible with most common web application firewalls
- Centralised dashboard providing visibility across all applications
- Identification of potential security threats
- Ability to lock down application hosting infrastructure to prevent future risks
- Reduction in cross-site scripting (XSS) attacks

Benefits

- A single, central location to audit all external resources used by applications
- Mechanism for defining and enforcing global third-party allow lists

- Reduced attack surface for R Shiny and R Markdown web applications
- Improved governance and confidence in deployed analytical applications

Pricing (Estimated)

- First 12-month subscription (estimated): £10,000
Includes onboarding, initial setup, and product updates.
Discounts may be available for organisations that purchase RStudio Connect through Jumping Rivers.
- Subsequent 12-month subscriptions (estimated): £5,000 per year
Includes ongoing product access and updates, with no additional onboarding required.