

Shiny App Usage Tracking in RStudio Connect

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- Extending Connect with the RStudio Connect Server API
- What is Instrumentation Data?
- Example Report
- Example App
- Get Involved
- Questions / Comments

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Extending Connect with the Server API

- RStudio Connect Server API: <https://docs.rstudio.com/connect/api/>
- Cookbook: <https://docs.rstudio.com/connect/cookbook/>
- R Client: <https://pkgs.rstudio.com/connectapi/>
- Python Client (mostly deployment): <https://github.com/rstudio/rsconnect-python/>
- Goal: Anything in UI can be done programmatically via API (not quite there yet)

Extending Connect with the Server API

Public / Documented (~ recent version)

- How many reports on the server?
- Which users have joined recently?
- Which users have access to which reports?
- Which reports in which tags?
- Build custom landing page for content, tags, etc. (connectwidgets)
- Who looked at this report recently?

Experimental / Not Possible

- Which jobs have run recently?
- How long did the jobs take?
- What jobs are running right now?
- Completed reports trigger other reports (DAG)
- Build a Connect Server from scratch

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What is Instrumentation Data?

- Motivating questions:
 - Who looked at this report or app recently?
 - Which reports / apps / APIs are most popular?
- We store coarse data when apps / APIs / static content are visited
 - Actual data (i.e. not logs), but not “Google Analytics” type of data
- Logged in / anonymous users recorded
- We are “instrument”-ing your content. Hence: “Instrumentation Data”

What is Instrumentation Data?

- Shiny Apps: Session Start, Session Stop
- Everything Else: Logged visits (no duration)
- Example (Shiny):

	content_guid	user_guid	started	ended	data_version
1	23d70dc2-d00c-4bc7-8d5c-a503670613f5	NA	2021-12-02 02:39:45	2021-12-02 02:40:03	1
2	d0a3b89f-bf0e-4c8d-ac2e-caad38848dd7	NA	2021-12-02 03:29:48	2021-12-02 03:30:08	1
3	c4f627fc-9e46-4b28-9b62-f6c692a6c694	92cb1a74-9bd8-47e2-9755-28afa5b40c56	2021-12-02 09:49:24	2021-12-02 10:08:27	1
4	5957cb9d-4f28-44fc-8b6b-86772a620c90	NA	2021-12-02 10:06:33	2021-12-02 10:07:11	1
5	4ecb5fc7-333d-489d-a863-bc333504a531	193be3a3-f984-4944-a97e-6dbdea2d95ca	2021-12-02 13:19:31	2021-12-02 13:19:54	1
6	4ecb5fc7-333d-489d-a863-bc333504a531	193be3a3-f984-4944-a97e-6dbdea2d95ca	2021-12-02 13:19:49	2021-12-02 13:20:32	1
7	4ecb5fc7-333d-489d-a863-bc333504a531	193be3a3-f984-4944-a97e-6dbdea2d95ca	2021-12-02 13:20:17	2021-12-02 13:20:44	1
8	4ecb5fc7-333d-489d-a863-bc333504a531	193be3a3-f984-4944-a97e-6dbdea2d95ca	2021-12-02 13:20:30	2021-12-02 13:21:29	1
9	4ecb5fc7-333d-489d-a863-bc333504a531	193be3a3-f984-4944-a97e-6dbdea2d95ca	2021-12-02 13:20:40	2021-12-02 13:21:11	1
10	4ecb5fc7-333d-489d-a863-bc333504a531	193be3a3-f984-4944-a97e-6dbdea2d95ca	2021-12-02 13:36:15	2021-12-02 13:36:18	1

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Example Report

- Run it on a Schedule
- Send a version to your email
- [Source Link](#)
- [Example Dashboard](#)

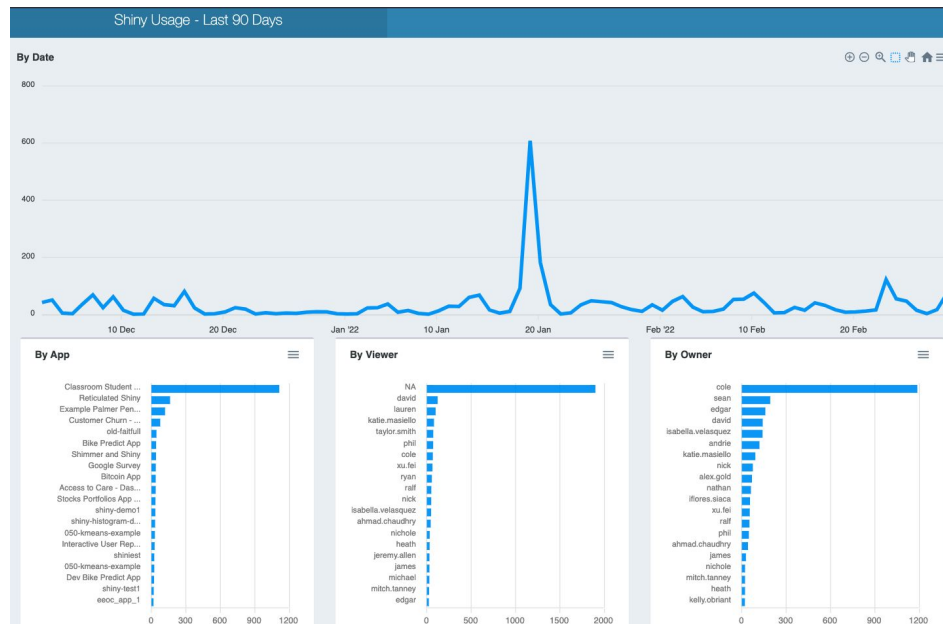


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Example App

- Interactive Exploration
- Data volume matters more
- [Source Link](#)
- [Example Dashboard](#)



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Get Involved

- RStudio Connect has data stored about your content usage
- As a publisher or administrator, you have access to this data!
- [Join the discussion on RStudio Community](#)
- Contribute to open source examples: <https://github.com/sol-eng/connect-usage>
- Contribute to open source packages / tooling
- Share your report / success story with your CS representative / the RStudio Connect team
- Share feature requests on Community or with your CS representative

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Questions?

- What sounds exciting!?
- Is something missing that you were hoping for?
- Anything you are looking forward to trying?
- Questions about how to get started?
- Anything else?
- Future discussion: <https://community.rstudio.com/c/r-admin/rstudio-connect/27>