Shiny Server Requirements

Sources:

1. <https://docs.rstudio.com/shiny-server/#system-requirements>
2. <https://canovasjm.netlify.app/2020/01/08/deploy-you-own-shiny-server-on-azure/>

# System requirements

Shiny Server is currently only supported on the Linux operating system with the following distributions:

* RedHat Enterprise Linux (and CentOS) 6 and higher
* Ubuntu 14.04 and higher
* SUSE Linux Enterprise 12 and higher

# Installation

* Most install **R** and the **Shiny package** prior to installing **Shiny Server**. Root privileges will be required both in the installation process and at runtime.
* Shiny Server has several dependencies on packages (including R itself) found in the Extra Packages for Enterprise Linux (EPEL) repository. If you do not already have this repository available, you should add it to your system using the instructions found here: <https://fedoraproject.org/wiki/EPEL>.
* Shiny Server recommends an installation of Rstudio.
* Essential R packages: rmarkdown, tidyverse, sf, ggplot2 (other packages will be needed too).

# Guide to install in Azure

<https://canovasjm.netlify.app/2020/01/08/deploy-you-own-shiny-server-on-azure/>

# Shiny vs Power BI

Sources:

1. <https://towardsdatascience.com/powerbi-vs-r-shiny-two-popular-excel-alternatives-compared-b58d4ba1e0d1#:~:text=You%20don't%20have%20to,to%20produce%20great%2Dlooking%20dashboards.&text=Also%2C%20PowerBI%20doesn't%20have,start%20but%20difficult%20to%20maintain>.
2. <https://www.linkedin.com/pulse/dashboarding-power-bi-vs-shiny-vlad-fridkin/>

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|  | Power BI | Shiny |
| Description | A collection of software services, apps, and connectors that work together to turn unrelated sources into coherent, visually immersive, and interactive insights | A web framework written in R, widely used to make dashboards and interactive web applications. it is a full web framework, |
| Language | DAX | R |
| Maintenance | PowerBI doesn’t have an accessible source code. Fields are edited in WYSIWYG mode, which makes PowerBI easy to start but difficult to maintain. Having no source code makes it nearly impossible to have proper version control, automatically test logic, or collaborate on large projects | R Shiny uses R as the programming language of choice, so Shiny can connect to any source that R can. |
| Chart types | PowerBI provides visualization options — bar, line, area, scatter, and pie charts, with a couple of fancier types such as maps, treemaps, funnels, and ribbon charts. | In R Shiny, you can use any visualization library that’s available in R, such as ggplot2, leaflet, and plotly. Here’s an overview of the types of visualizations you can do with both: <https://www.r-graph-gallery.com/> |
| User input and interactivity | PowerBI is read-only. The user, can click on the various filters to include/exclude some data from the chart, but that’s pretty much all a user can do. We think inputs are essential in creating interactive dashboards. | Shiny has a wide array of inputs — from text fields and buttons to dropdowns and modals. For example, input files to update datasets that inform the application, allow text input, select variables to allow a selection of columns in a dataset, etc. |
| Style | Tweaking the looks and feels of visuals depend on the available editing tools of the software. | Customed CSS can be embedded to style every element of the website. |
| Git version Control | No | Yes |
| Ease Use | Easy and quick to get started with the visual interface. | Easy to get started with a basic app. Takes longer to set up dashboard elements from scratch. |
| Skills required | Excel power user | Ability to code in R |
| License costs | Free for Desktop version. For sharing US10 per month | Free for development + Server hosting costs |
| Comments | PowerBI is great when you need something relatively simple and aren’t worried too much about the looks and overall feel of the dashboard. | For anything more complex, R Shiny overthrows PowerBI. PowerBI just can’t compare with the customizability that Shiny offers, especially if you need to create an enterprise application. |