Installing Semantic UI on Shiny® Server

Run Shiny® Server with B23

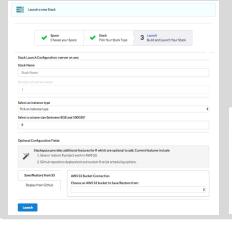
B23 Data Platform

It's a free platform for launching and managing data science tools in the cloud with an Amazon Web Services (AWS) account.

- 1. Go to **platform.b23.io** and access the Documentation tab to view instructions for creating an AWS account and setting up credentials for using BDP.
- 2. Launch a Space (Virtual Private Cloud) you must have valid AWS credentials.



- 3. Once your Space is running, open the Stacks tab and select 'New Stack' then select the Space you created from the dropdown list.
- 4. Pick the R stack from the list of available stacks to launch:
- 5. Configure your R stack with a name, RAM/vCPU instance type (start small and work your way up as needed), and any of the optional configurations you want to try.



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6. Once your Stack is running, it will expose URLs to Access the R and Shiny Servers.



Create a Project and Deploy a Basic App Template

In the R working directory, create a new folder for storing your app files.



Seed the app folder with basic ui.R and server.R template scripts.



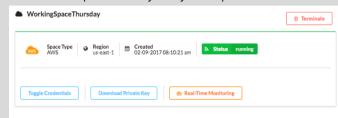
Use deployShiny() to send your app folder and files to Shiny® Server.

- > library(B23r)
- > deployShiny('myApp')

Access your shiny app by appending the app name to your shiny-server stack ${\tt URL}$

Open Secure Shell (SSH) for your R Stack

1. Download the private key for your Space



- 2. Open a terminal on your local machine and cd into the directory your key was downloaded into
- 3. Change permissions on the key to 600

Laptop-user\$ cd Downloads
Laptop-user\$ chmod 600 stackspace-YOUR-PRIVATE-KEY.pem

4. Click on the node card for rserver shown under 'Stack Assets'



5. Copy the SSH Connection String and copy it into your terminal

Laptop-user\$ ssh -i stackspace...pem -p ...
[stackspace@ip ~]\$

Install Semantic-UI

1. With your SSH connection established, become root user and install nodejs and gulp

```
[stackspace@ip ~]$ sudo -su root
[root@ip ~]$ sudo curl --silent --location https://
rpm.nodesource.com/setup_4.x | bash -
[root@ip ~]$ yum -y install nodejs
[root@ip ~]$ sudo npm install -g gulp
```

- 2. Change into the app directory you deployed to shiny-server and npm install semantic-ui
- 3. Hit enter to accept all default installation configurations

[root@ip ~]\$ cd /srv/shiny-server/myApp
[root@ip ~]\$ sudo npm install semantic-ui --save

4. Change into the newly created 'semantic' directory and use gulp to build

[root@ip ~]\$ cd semantic
[root@ip ~]\$ qulp build

5. Semantic UI should now be available for your Shiny® App!

Build and View your Apps

Go back to the R IDE and continue developing your application script files.

Use the updateShiny() function to push file changes out to Shiny® Server.

> library(B23r)
> updateShiny('myApp/ui.R')
Access your shiny app by appending the app
name to your shiny-server stack URL

Access your app by opening the shiny-server URL provided on the R Stack page under 'Assets'. Use username/password: admin/admin to open the server welcome page.

Append the name of your application to the end of this URL. If the app is error-free, it will load and be fully functional at this location.

