

# Shiny Server

- **Descriptions :** **Shiny** is an open source R package that provides an elegant and powerful web framework for building web applications using R. Shiny helps you turn your analyses into interactive web applications without requiring HTML, CSS, or JavaScript knowledge.

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**Pour commencer :** Instanciation d'une VM SL7 sur Open Stack depuis une machine interactive du CC

```
$ nova boot --key-name=cloudkey --image=official-SL-7x-x86_64 --  
flavor=m1.small shiny_server
```

Une fois la VM instanciée, s'y connecter ...

## Shiny Server

### Installation

Installation de R :

```
$ rpm -Uvh  
http://fr2.rpmfind.net/linux/epel/7/x86_64/e/epel-release-7-5.noarch.rpm  
$ sudo yum install R
```

Installation du package “shiny” dans R :

```
$ sudo su -c "R -e \"install.packages('shiny',  
repos='http://cran.rstudio.com/')\""
```

Installation du package “markdown” dans R :

```
$ sudo su -c "R -e \"install.packages('markdown', repos='http://cran.univ-  
lyon1.fr/')\""
```

Installation du package “devtools” dans R :

Tout d'abord installer libcurl et libcurl-devel (sinon on se tape : ERROR: dependencies ‘httr’, ‘RCurl’ are not available for package ‘devtools’)

```
$ sudo yum -y install libcurl libcurl-devel
```

```
$ sudo su -c "R -e \"install.packages('devtools', dependencies = TRUE)\""
```

Téléchargement et installation de Shiny server :

```
$ wget
http://download3.rstudio.org/centos-5.9/x86_64/shiny-server-1.3.0.403-rh5-x86_64.rpm
$ sudo yum install --nogpgcheck shiny-server-1.3.0.403-rh5-x86_64.rpm
```

## Démarrer / arrêter / redémarrer / recharger / état

```
$ service shiny-server start
$ service shiny-server stop
$ service shiny-server restart
$ service shiny-server reload
$ service shiny-server status
```

## Configuration

/etc/shiny-server/shiny-server.conf

```
# Define the user we should use when spawning R Shiny processes
run_as shiny;

# Define a top-level server which will listen on a port
server {
    # Instruct this server to listen on port 3838
    listen 3838;

    # Define the location available at the base URL
    location / {
        # Run this location in 'site_dir' mode, which hosts the entire directory
        # tree at '/srv/shiny-server'
        site_dir /srv/shiny-server;

        # Define where we should put the log files for this location
        log_dir /var/log/shiny-server;

        # Should we list the contents of a (non-Shiny-App) directory when the
        user
        # visits the corresponding URL?
        directory_index off;
    }
}
```

## Personnalisation

## Accès

URL temporaire

<http://134.158.37.4/>

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