Project: Extension of Graphical User Interface RouteFlow

Work done by Master's students:

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Tutorial the Configuration:

To run our project successfully, you must first install Ruby on Rails 1.9.1 on Ubuntu machine you want to run the application. For this we prepared this short installation guide:

Installation guide Ruby on Rails on Ubuntu Linux:

Enter the following commands in the order they are:

```
$ sudo aptitude install git-core curl -y
$ \curl -L https://get.rvm.io | bash -s stable –ruby
$ source .bashrc
$ rvm autolibs packages
$ gem install rails
```

Note 1: If you can't change the version of Ruby, execute the following commands:

```
$ sudo rm /usr/bin/ruby (ln -s /usr/bin/ruby1.9.1 /usr/bin/ruby)
$ sudo rm /usr/bin/gem (ln -s /usr/bin/gem1.9.1 /usr/bin/gem)
source ~/.rvm/scripts/rvm
$ rails new PrjLibvirtView
$ cd PrjLibvirtView
```

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Note 2: Edit / Additionally Gemfile

gem 'therubyracer'
$ bundle install
$ rails g controller ShowRotes index

Note 3:

File edit of the routes 'config/routes.rb'

- Add main route

root 'show_rotes#index'

- Implement functionality of the controller 'app/controller/show_routes.rb'

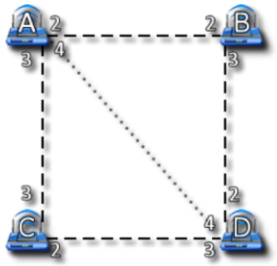
Note 4: As this application uses the libvirt, if the application does not run you may need to change the commands in libvirt file show_rotes_controller, located in the folder app/controllers, because your version may be more current or preceding ours.

Note 5:For other doubts or problems with the installation, we recommend the following links that may help you:

https://help.ubuntu.com/lts/serverguide/libvirt.html
http://jeromejaglale.com/doc/unix/ubuntu_sudo_without_password

Below, some screenshots of the interface

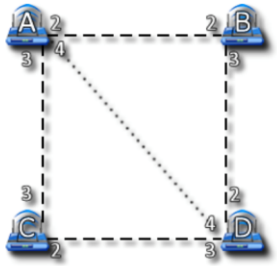
This web application allows observing the network topology proposed in execution file rfteste2 and also run some commands libvirt. Additionally, you can see the settings of the machines (or VMs) running.



Controle LibVirt:

Tabela de Roteadores

vm_id	vm_port	dp_id	dp_port
2D0D0D0D0D0	1	8	1
2D0D0D0D0D0	2	8	2
2D0D0D0D0D0	3	8	3
2D0D0D0D0D0	4	8	4
2C0C0C0C0C0	1	7	1
2C0C0C0C0C0	2	7	2
2C0C0C0C0C0	3	7	3
2B0B0B0B0B0	1	6	1
2B0B0B0B0B0	2	6	2
2B0B0B0B0B0	3	6	3
2A0A0A0A0A0	1	5	1
2A0A0A0A0A0	2	5	2
2A0A0A0A0A0	3	5	3
2A0A0A0A0A0	4	5	4



LibVirt View

Libvrit View | start | stop | status

Controle LibVirt:

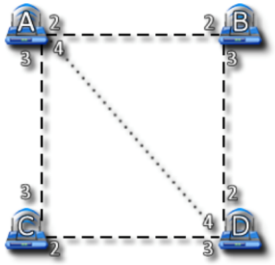
libvirt-bin start/running, process 23311

Tabela de Roteadores

vm_id	vm_port	dp_id	dp_port
2D0D0D0D0D0	1	8	1
2D0D0D0D0D0	2	8	2
2D0D0D0D0D0	3	8	3
2D0D0D0D0D0	4	8	4
2C0C0C0C0C0	1	7	1
2C0C0C0C0C0	2	7	2
2C0C0C0C0C0	3	7	3
2B0B0B0B0B0	1	6	1
2B0B0B0B0B0	2	6	2
2B0B0B0B0B0	3	6	3
2A0A0A0A0A0	1	5	1
2A0A0A0A0A0	2	5	2
2A0A0A0A0A0	3	5	3

LibVirt View

Libvrit View | start | stop | status



Controle LibVirt:

libvirt-bin stop/waiting

Tabela de Roteadores

vm_id	vm_port	dp_id	dp_port
2D0D0D0D0D0	1	8	1
2D0D0D0D0D0	2	8	2
2D0D0D0D0D0	3	8	3
2D0D0D0D0D0	4	8	4
2C0C0C0C0C0	1	7	1
2C0C0C0C0C0	2	7	2
2C0C0C0C0C0	3	7	3
2B0B0B0B0B0	1	6	1
2B0B0B0B0B0	2	6	2
2B0B0B0B0B0	3	6	3
2A0A0A0A0A0	1	5	1
2A0A0A0A0A0	2	5	2
2A0A0A0A0A0	3	5	3