NANOG 75 Hackathon Lab Info

This doc is available at nanog75.tesuto.com

Network Diagram
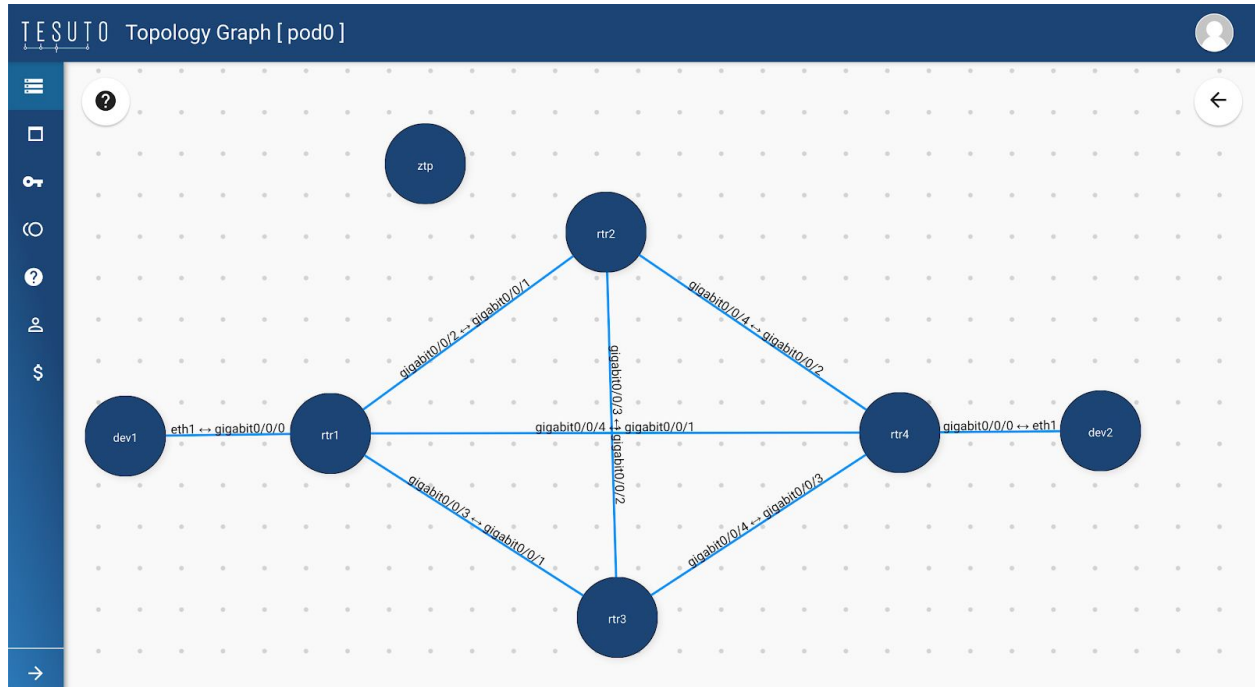
Access to emulation

Each emulated device in Tesuto cloud automatically receives an externally accessible FQDN in the following format:

```
[hostname].[emulation name].[account name].cloud.tesuto.com
```

For this hackathon your emulation name = "**hackathon**" and your account slot is **POD[N]** where [N] represents your pod number.
For example if you are working on pod5 and want to connect to dev1, use the following address:

```
dev1.hackathon.pod5.cloud.tesuto.com
```

Authentication

Linux instances

An ssh key is pushed to all linux devices in the emulation (ztp, dev1, dev2). Download the key from this address: https://storage.googleapis.com/tesuto-public/nanog75.key

Save the key in your local machine. This document assumes you saved it to ~/.ssh/nanog75.key

```
curl -o ~/.ssh/nanog75.key https://storage.googleapis.com/tesuto-public/nanog75.key
```

Change the permission of the key

```
chmod 400 ~/.ssh/nanog75.key
```

SSH Config File

For ease of access we recommend adding the following section to your ~/.ssh/config file. Make sure to replace your PODNUMBER in the config. The following config also prevents you from accidentally connecting to other pods.

```
host *pod<PODNUMBER>.cloud.tesuto.com
    StrictHostKeyChecking no
    user tesuto
    IdentityFile ~/.ssh/nanog75.key
    IdentitiesOnly yes
    LogLevel quiet
host *pod*.cloud.tesuto.com
    user wrong_pod
```

Routers

The following credentials is set on all routers:

```
Username: rtrdev
Password: nanog75sf
```

Confirm you have access to all dev instances:

```
export POD_NUMBER=0 # This is your POD Number
for srv in ztp dev1 dev2; do
  ssh $srv.hackathon.pod$POD_NUMBER.cloud.tesuto.com "echo \"connected to $srv\"";
done
```

Management Network

Mgmt interface of all IOS-XR devices and eth0 of all linux boxes are connected to a management network. You can see the list of management IPs on /etc/hosts of linux devices.

Console access

If at any point you need to access router consoles, ssh to

```
hackathon.pod<number>.cloud.tesuto.com
```

Once connected you can access the console by running `console <routername>`

Access to Tesuto platform

Tesuto UI allows you to control the emulation. Prior to hackathon we have already launched the devices but in case your need to review the topology, power-cycle or repair the devices you can login to Tesuto UI with the following details:
https://cloud.tesuto.com
Username: pod[N]@tesuto.com # Replace [N] with your pod number
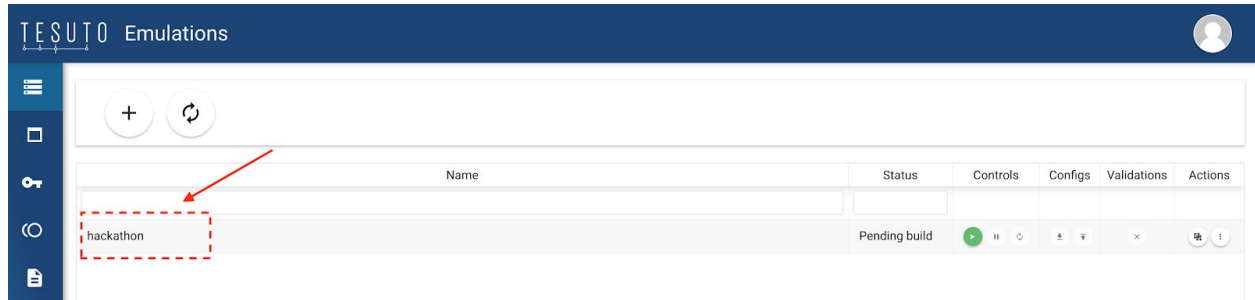Password: nanog75sf

To view the topology click on Designer button on emulation row
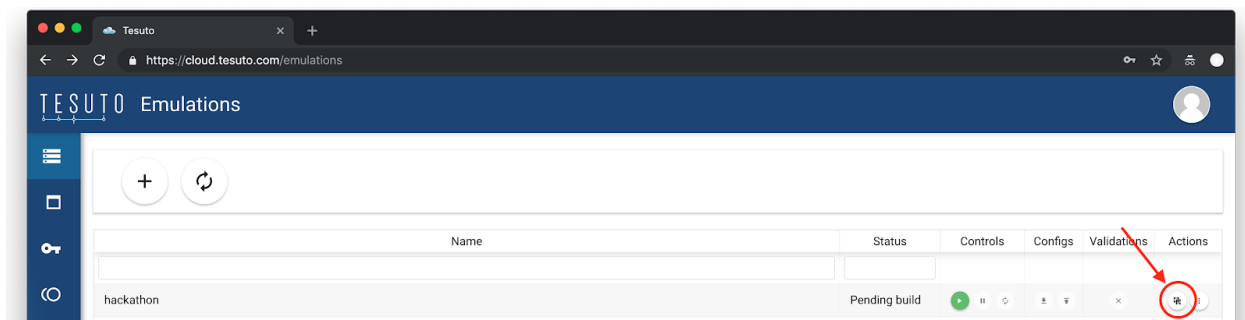
To repair a device

Click on emulation name to get to devices page

Click on "..." on actions columns to see the list of actions and choose "repair"