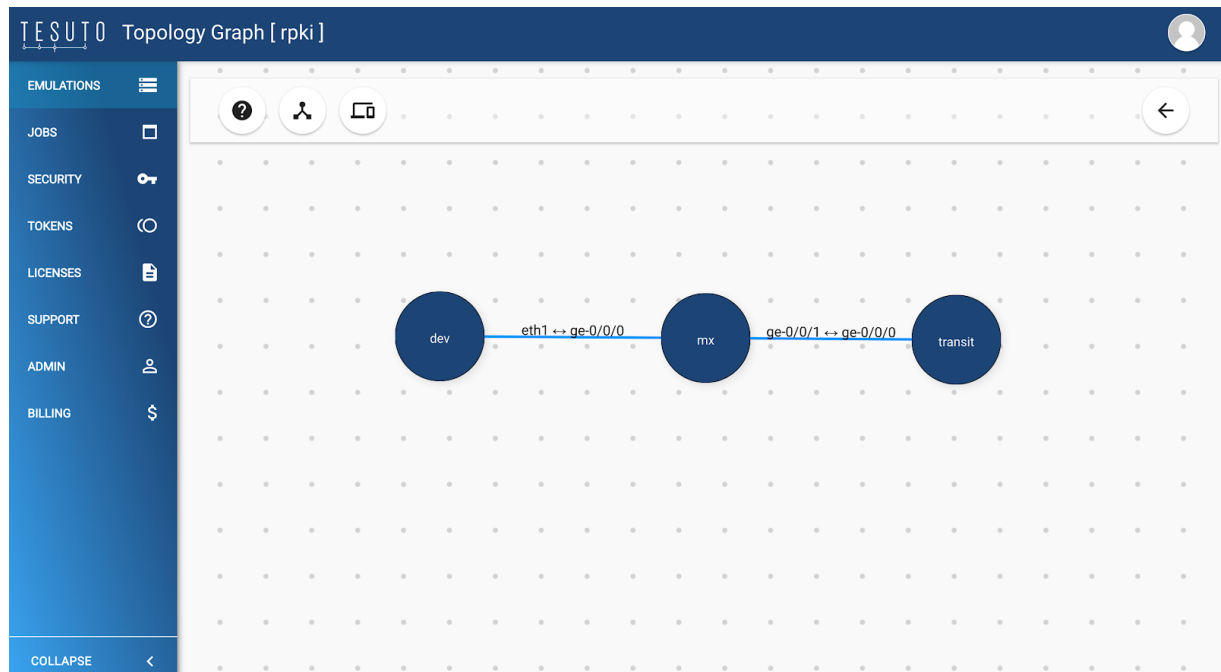


RPKI deployment lab info

This doc is available at rpki.tesuto.com

Network Diagram



Access to emulation

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

```
[hostname].POD[N].juniper-networks.cloud.tesuto.com
```

Please replace N with your unique pod number.

For example if you are working on pod5 and want to connect to dev, use the following address:

Hostnames:

dev.pod5.juniper-networks.cloud.tesuto.com

mx.pod5.juniper-networks.cloud.tesuto.com

transit.pod5.juniper-networks.cloud.tesuto.com

Authentication

Linux instances

An ssh key is pushed to dev linux instance
Download the key from this address:

<https://storage.googleapis.com/tesuto-public/rpki.key>

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

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

Change the permission of the key

```
chmod 400 ~/.ssh/rpki.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>.juniper-networks.cloud.tesuto.com
  StrictHostKeyChecking no
  user tesuto
  IdentityFile ~/.ssh/rpki.key
  IdentitiesOnly yes
  LogLevel quiet
host *pod*.juniper-networks.cloud.tesuto.com
  user wrong_pod
```

Routers

Same rpki.key is deployed to transit and mx routers.

```
Username: tesuto
Public-key-auth using the rpki.key
```

Confirm you have access to dev instance:

```
export POD_NUMBER=1 # This is your POD Number
ssh dev.pod$POD_NUMBER.juniper-networks.cloud.tesuto.com "echo \"connected to dev\"";
```

Confirm you have access to mx routers

```
for host in mx transit; do
    echo $host; ssh $host.pod$POD_NUMBER.juniper-networks.cloud.tesuto.com "show
system uptime ";
done
```

Management Network

Mgmt interface of all routers and ens3 of all linux boxes are connected to a management network. You can see the list of management IPs on /etc/hosts of linux device.

Console access

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

```
pod<number>.juniper-networks.cloud.tesuto.com
```

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

Access to Tesuto platform

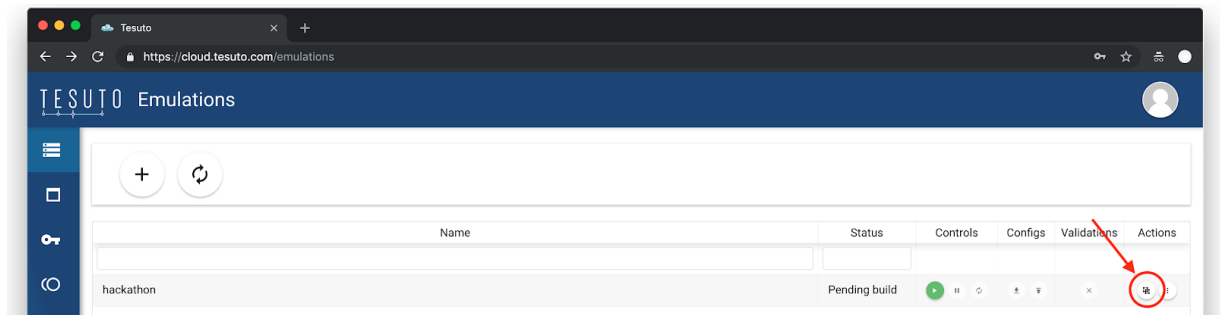
Tesuto UI allows you to control the emulation. Prior to hackathon we have already launched the devices but in case your need to review the topology, power-cycle or repair the devices you can login to Tesuto UI with the following details:

<https://cloud.tesuto.com>

Username: rpki@tesuto.com

Password: [Please ask event organizers for password if you need to reset]

To view the topology click on Designer button on emulation row



To repair a device

Click on emulation name to get to devices page

TESUTO Emulations

| Name | Status | Controls | Configs | Validations | Actions |
|-----------|---------------|----------|---------|-------------|---------|
| hackathon | Pending build | | | | |

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

TESUTO Network Devices [hackathon]

| Hostname | Vendor | Model | Version | Interface | Actions |
|----------|--------|--------|---------------------|------------------|---------|
| rtr1 | Cisco | IOS-XR | 6.5.2.28I | gigabit0/0/[0-9] | |
| rtr2 | Cisco | IOS-XR | 6.5.2.28I | gigabit0/0/[0-9] | |
| rtr3 | Cisco | IOS-XR | 6.5.2.28I | gigabit0/0/[0-9] | |
| rtr4 | Cisco | IOS-XR | 6.5.2.28I | gigabit0/0/[0-9] | |
| ztp | Tesuto | AGENT | c1.0.0-nanog75-ztp | eth1 | |
| dev1 | Tesuto | AGENT | c1.0.0-nanog75-dev1 | eth1 | |
| dev2 | Tesuto | AGENT | c1.0.0-nanog75-dev2 | eth1 | |

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