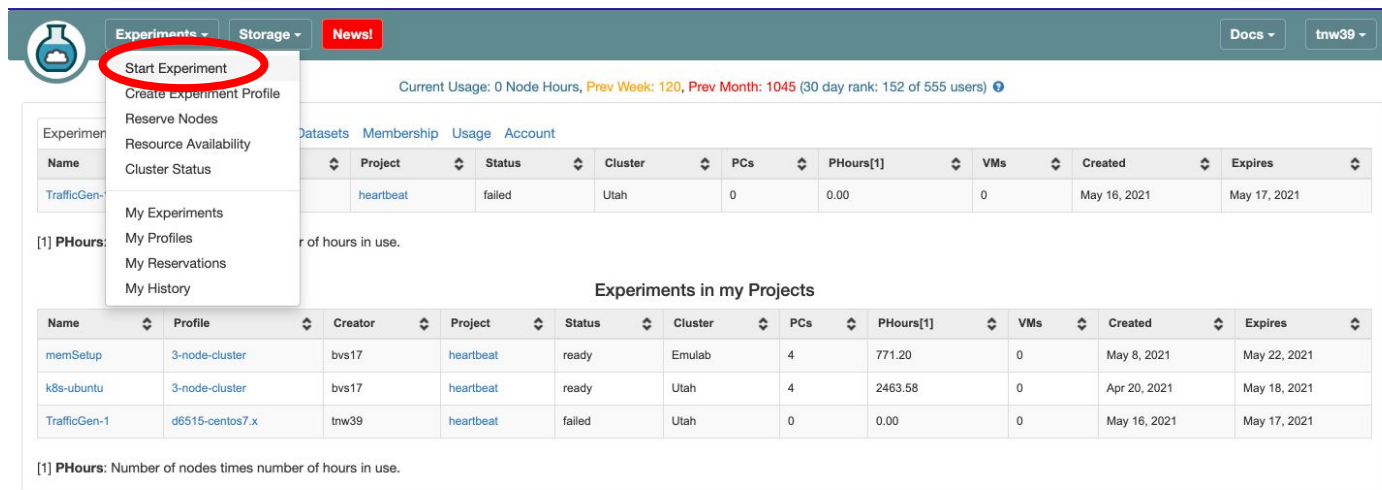


Performance Experiments

Create Experiment

Start Experiment



Experiments Storage News! Docs tnw39

Start Experiment
Create Experiment Profile
Reserve Nodes
Resource Availability
Cluster Status
My Experiments
My Profiles
My Reservations
My History

Current Usage: 0 Node Hours, Prev Week: 120, Prev Month: 1045 (30 day rank: 152 of 555 users)

Experiments

Name	Project	Status	Cluster	PCs	PHours[1]	VMs	Created	Expires
TrafficGen-1	heartbeat	failed	Utah	0	0.00	0	May 16, 2021	May 17, 2021

[1] PHours: Number of nodes times number of hours in use.

Experiments in my Projects

Name	Profile	Creator	Project	Status	Cluster	PCs	PHours[1]	VMs	Created	Expires
memSetup	3-node-cluster	bvs17	heartbeat	ready	Emulab	4	771.20	0	May 8, 2021	May 22, 2021
k8s-ubuntu	3-node-cluster	bvs17	heartbeat	ready	Utah	4	2463.58	0	Apr 20, 2021	May 18, 2021
TrafficGen-1	d6515-centos7.x	tnw39	heartbeat	failed	Utah	0	0.00	0	May 16, 2021	May 17, 2021

[1] PHours: Number of nodes times number of hours in use.

Change Profile

Current Usage: 0 Node Hours, Prev Week: 120, Prev Month: 1045 (30 day rank: 152 of 555 users) ?

1. Select a Profile

2. Parameterize

3. Finalize

4. Schedule

Selected Profile: small-lan

Variable number of nodes in a lan. You have the option of picking from one of several standard images we provide, or just use the default (typically a recent version of Ubuntu). You may also optionally pick the specific hardware type for all the nodes in the lan.

Copy Profile

Show Profile

Change Profile

Previous

Next

Select k2-performance-xl170 profile

Select a Profile

Recent -

xl170-centos7-ubuntu20.node-1

heartbeat

xl170-centos7-ubuntu20

heartbeat

d6515-centos7.x

heartbeat

small-lan

System

katran-xl170

heartbeat

Favorites -

xl170-centos7-ubuntu20.node-1

heartbeat

d6515-centos7.x

heartbeat

k2-performance-xl170

heartbeat

My Profiles -

xl170-centos7-ubuntu20.node-1

heartbeat

xl170-centos7-ubuntu20

heartbeat

katran-xl170

heartbeat

k2-performance-xl170

Created By:

tnw39

Project:

heartbeat

Latest Version:

0

Last Updated:

2021-05-23 20:00:41

Description:

Performance evaluation of K2. Traffic generator (Centos) + DUT setup with xl170 machines (Ubuntu) + Custom Disk Images

node-0

node-1

Select Profile

Cancel

Click Select profile and then next

Finalize

Current Usage: 0 Node Hours, **Prev Week: 120**, **Prev Month: 1045** (30 day rank: 152 of 555 users) ?

1. Select a Profile

2. Parameterize

3. Finalize

4. Schedule

Profile: d6515-centos7.x:3

Source

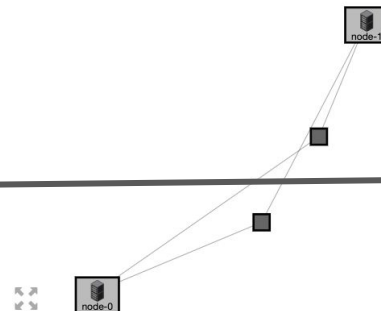
Please review the selections below and then click Next.

Name:

Optional

+ Advanced Options

[Check Resource Availability](#)



Optionally input
a name for
your
experiment

Previous

Next

Schedule

Current Usage: 0 Node Hours, **Prev Week: 120**, **Prev Month: 1045** (30 day rank: 152 of 555 users) ?

1. Select a Profile

2. Parameterize

3. Finalize

4. Schedule

Please select when you would like to start this experiment and then click Finish.

Start on date/time (optional) ?

MM/DD/YYYY

Time



Experiment Duration

16

hours



Default/Max
Experiment
time is 16
hours. You can
extend this
later once the
experiment
starts.

Previous

Finish

Setup experiment

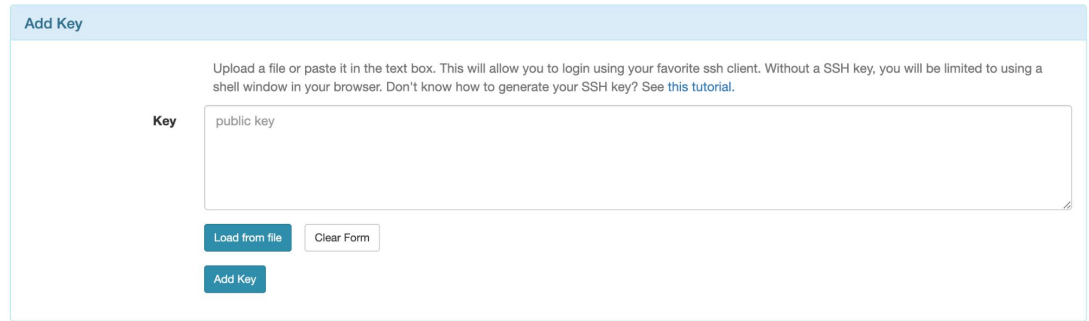
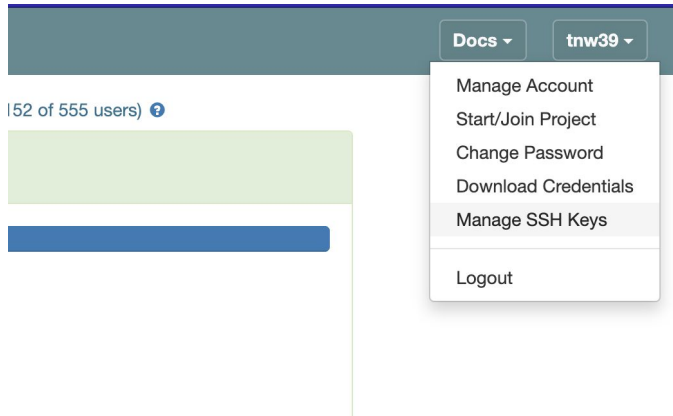
Setup Node 1(1/1)

1. SSH into Node1.
2. Add

```
export  
PYTHONPATH=/usr/local/v2.87/automation/trex_control_plane/interactive to  
~/.bash_profile
```
3. `cd /usr/local/trex-configuration/`
4. Run `./update-scripts.sh`. When prompted, enter the node0 for your experiment and type xl170.
5. Exit session and login again.

Setup Node1 (2/2)

3) Generate ssh key. `ssh-keygen` (press enter for all the prompts)

A screenshot of the 'Add Key' form in a cloud lab interface. The form has a title 'Add Key' and a description: 'Upload a file or paste it in the text box. This will allow you to login using your favorite ssh client. Without a SSH key, you will be limited to using a shell window in your browser. Don't know how to generate your SSH key? See [this tutorial](#).' There is a text input field labeled 'Key' with the placeholder text 'public key'. Below the input field are three buttons: 'Load from file', 'Clear Form', and 'Add Key'.

Wait 5-10 minutes. Cloud lab takes a bit of time to update your ssh key. Then, **test ssh into the node0 from node 1**. This step is necessary, do not skip!

Setup Node0:

- 1) SSH into Node0
- 2) `./setup_dut.sh ens1f1``. Type in Y when it prompts and enter xl170 when it prompts for a device.