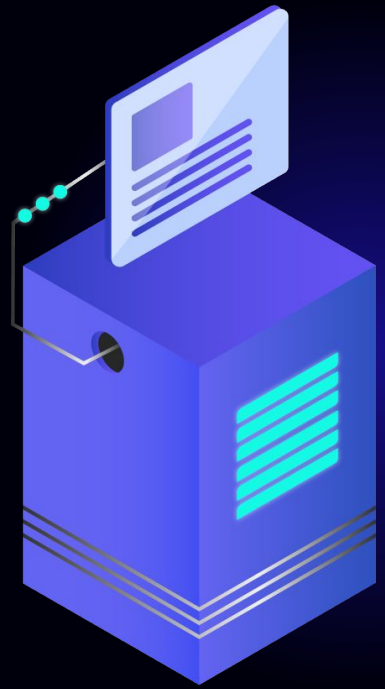
INSE 6170

Torrenting on Public Cloud: Survey on Policies and Practices

Project Type 2

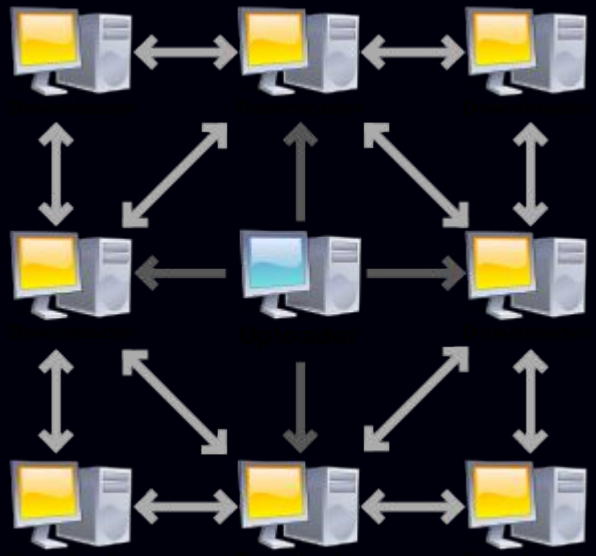
UNIVERSITÉ Concordia UNIVERSITY



INTRODUCTION

BitTorrent

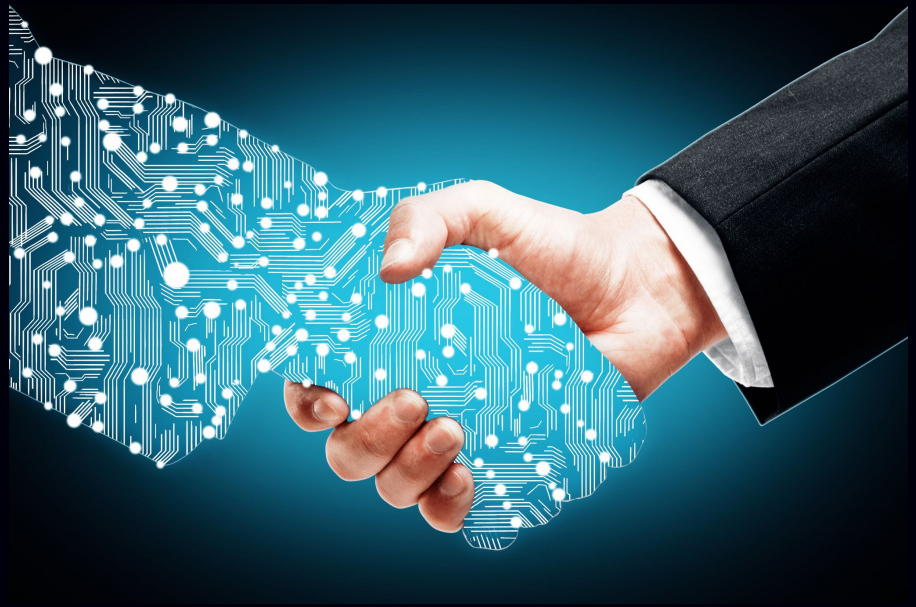
P2P



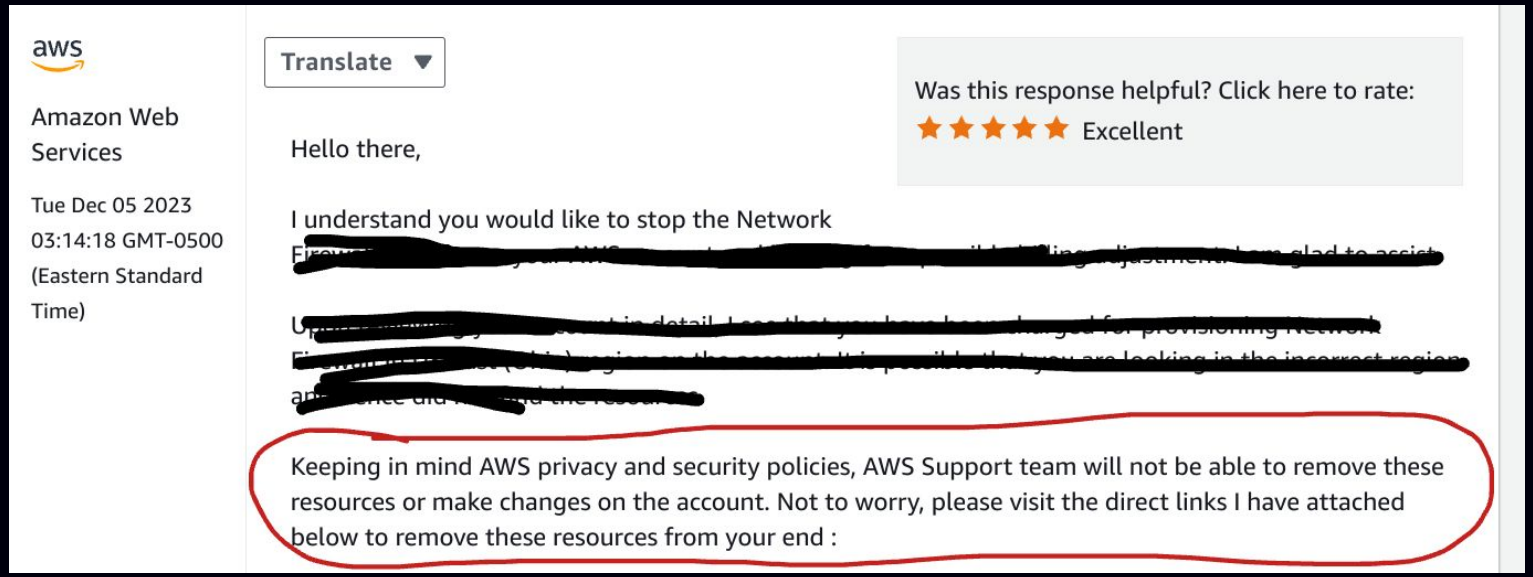
The Law

Legal Technicality

Trust in Cloud Computing



Trust in Cloud Computing



aws

Amazon Web Services

Tue Dec 05 2023 03:14:18 GMT-0500 (Eastern Standard Time)

Translate

Was this response helpful? Click here to rate:
★★★★★ Excellent

Hello there,

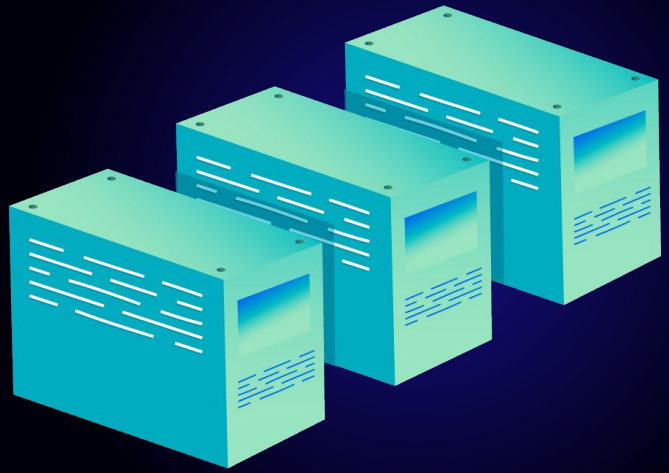
I understand you would like to stop the Network

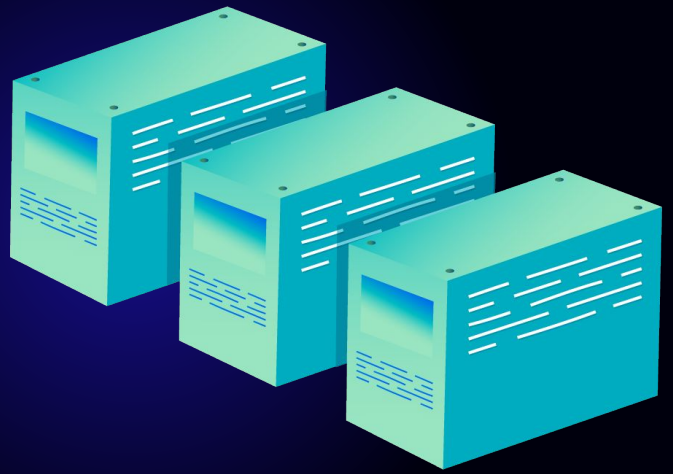
[redacted]

Keeping in mind AWS privacy and security policies, AWS Support team will not be able to remove these resources or make changes on the account. Not to worry, please visit the direct links I have attached below to remove these resources from your end :

What does it all mean?

Cloud Survey





Clouds


Alibaba Cloud


Azure


linode


aws


HP
Helion


DigitalOcean


Joyent
TRITON


ORACLE
CLOUD


rackspace


Scaleway


vmware
vCloud

Survey

01 Installing rTorrent and accessing torrent site

02 Checking for Anti Piracy Policy

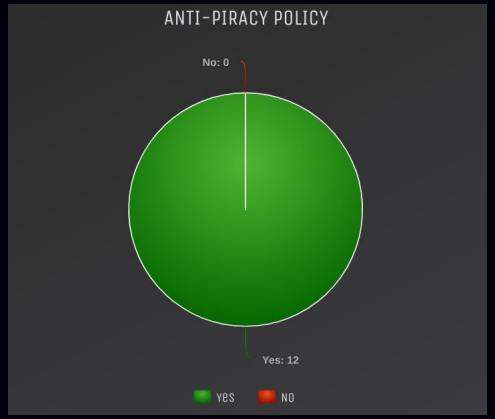
03 Legal Action

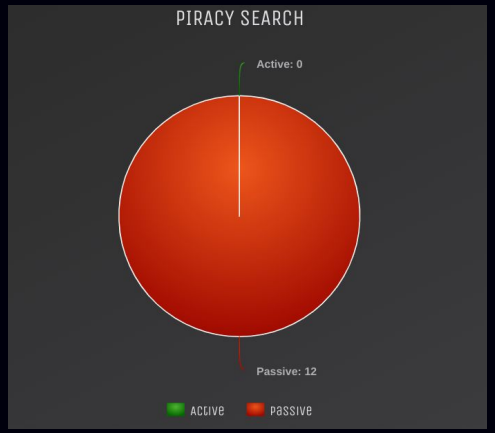
04 Active or Passive approach

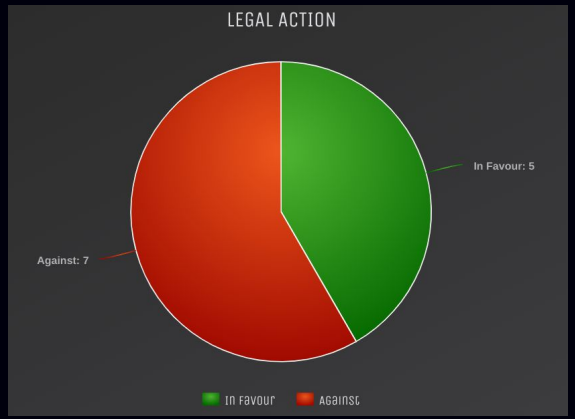
05 Preventive Measures

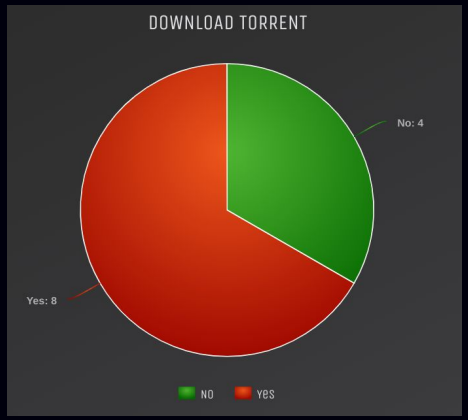
Data Compilation

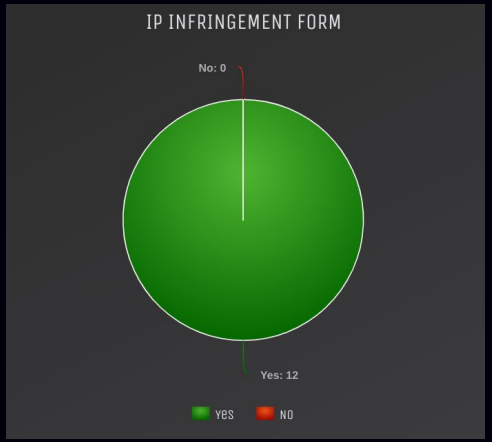
Survey


ANTI-PIRACY POLICY
No: 0
Yes: 12
YES
NO


PIRACY SEARCH
Active: 0
Passive: 12
Active
Passive

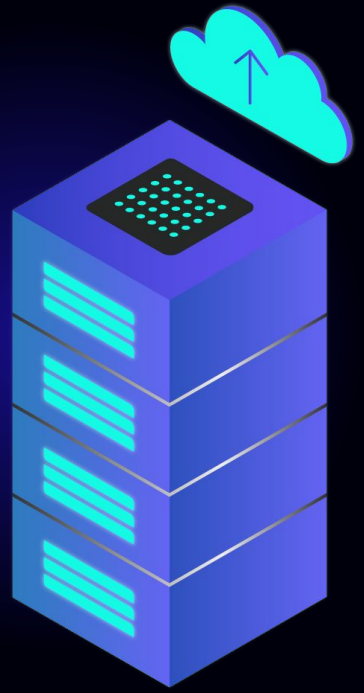

LEGAL ACTION
In Favour: 5
Against: 7
In favour
Against


DOWNLOAD TORRENT
No: 4
Yes: 8
NO
YES


IP INFRINGEMENT FORM
No: 0
Yes: 12
YES
NO

Experimental Study

OpenStack



- Technology Introduction
- Methodology
- Instance and Virtual Network Configuration
- Possible Security Measure

OPENSTACK

Methodology

01 Virtual Network Devices

02 Backend Functionality

03 Instance Creation

04 Our Proposed Solutions

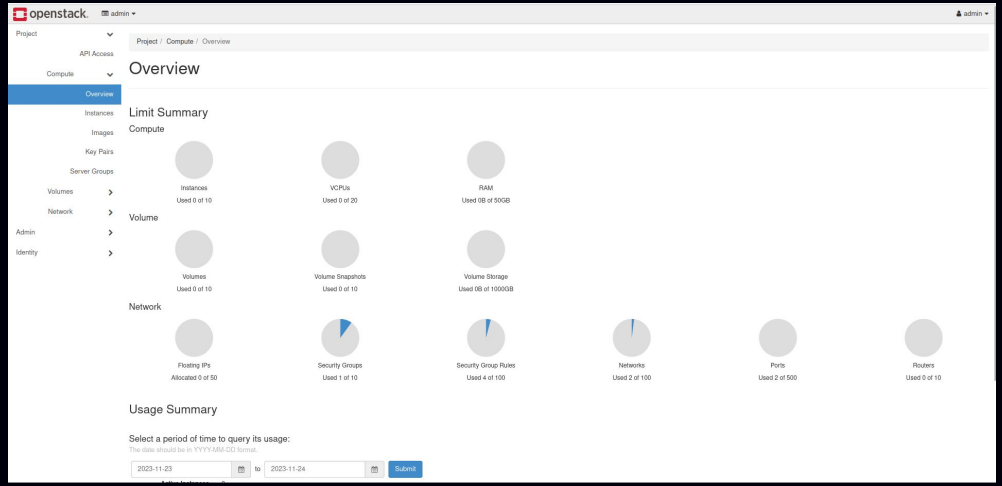
Installation

```
This is your host IP address: 172.31.6.246
This is your host IPv6 address: ::1
Horizon is now available at http://172.31.6.246/dashboard
Keystone is serving at http://172.31.6.246/identity/
The default users are: admin and demo
The password: secret

Services are running under systemd unit files.
For more information see:
https://docs.openstack.org/devstack/latest/systemd.html

DevStack Version: 2024.1
Change: 2211c778db0e18702c7177f7750571cba3697509 Allow devstack to set cache driver for glance 2023-11-22 06:25:48 +0000
OS Version: Ubuntu 22.04 jammy

2023-11-24 16:42:53.246 | stack.sh completed in 1050 seconds.
stack@ip-172-31-6-246:~/devstack$
```



Configuration

KeyPair

Network & Subnet

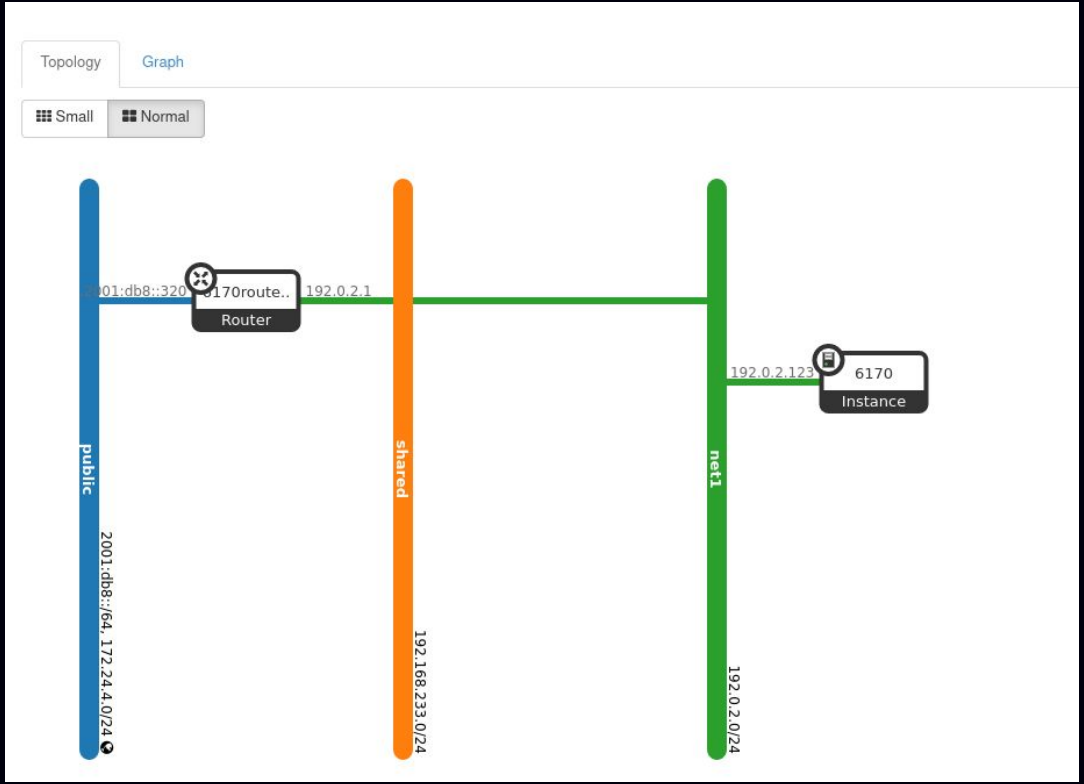
Router

Security Group

OS Image

Instance

Network Topology



Proposed Solutions

Blocking Sites

Before

```
ubuntu@ip-172-31-18-34:~$ ping 104.21.42.214
PING 104.21.42.214 (104.21.42.214) 56(84) bytes of data.
64 bytes from 104.21.42.214: icmp_seq=1 ttl=54 time=9.21 ms
64 bytes from 104.21.42.214: icmp_seq=2 ttl=54 time=9.23 ms
64 bytes from 104.21.42.214: icmp_seq=3 ttl=54 time=9.25 ms
64 bytes from 104.21.42.214: icmp_seq=4 ttl=54 time=9.26 ms
64 bytes from 104.21.42.214: icmp_seq=5 ttl=54 time=9.31 ms
^C
--- 104.21.42.214 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 9.208/9.250/9.312/0.035 ms
```

After

```
ubuntu@ip-172-31-24-210:~$ ping www.google.com
PING www.google.com (172.217.1.100) 56(84) bytes of data.
64 bytes from ord37s51-in-f4.1e100.net (172.217.1.100): icmp_seq=1 ttl=55 time=16.5 ms
64 bytes from yyz08s09-in-f4.1e100.net (172.217.1.100): icmp_seq=2 ttl=55 time=16.6 ms
64 bytes from yyz08s09-in-f4.1e100.net (172.217.1.100): icmp_seq=3 ttl=55 time=16.6 ms
^C
--- www.google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 16.476/16.547/16.599/0.052 ms
ubuntu@ip-172-31-24-210:~$ ping 104.21.42.214
PING 104.21.42.214 (104.21.42.214) 56(84) bytes of data.
^C
--- 104.21.42.214 ping statistics ---
7 packets transmitted, 0 received, 100% packet loss, time 6147ms

ubuntu@ip-172-31-24-210:~$
```

Firewall

Instances

1

2

3

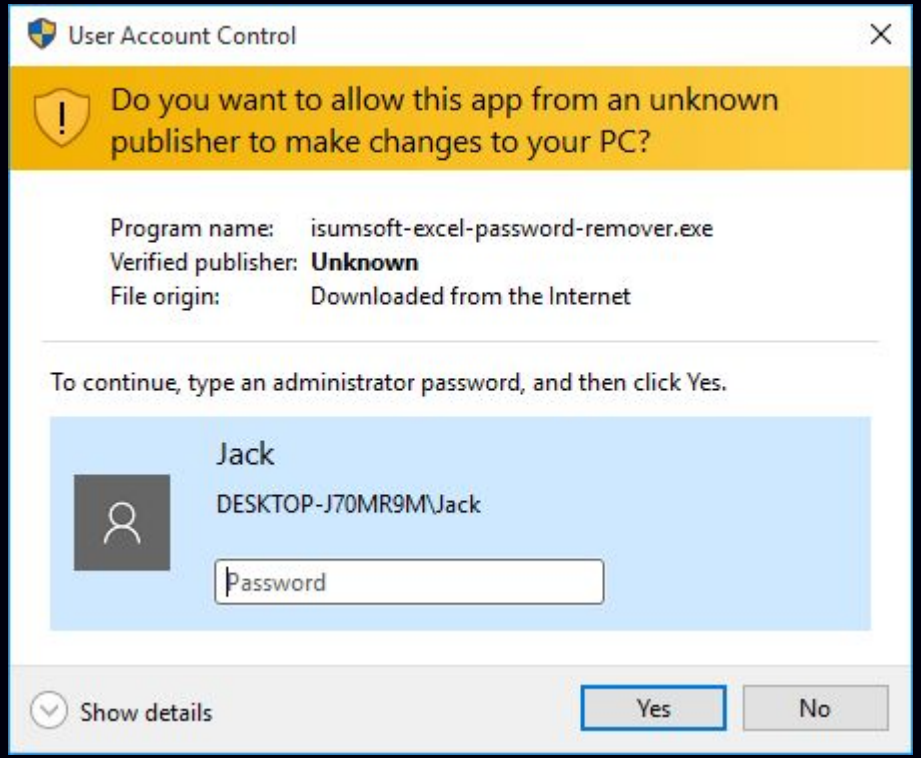
.....

VPN

Port Checking

```
{
 "pkts": "<the number of packets that matched the rules of the labels>",
 "bytes": "<the number of bytes that matched the rules of the labels>",
 "time": "<seconds between the first data collection and the last one>",
 "first_update": "timeutils.utcnow_ts() of the first collection",
 "last_update": "timeutils.utcnow_ts() of the last collection",
 "host": "<neutron metering agent host name>",
 "label_id": "<the label id>",
 "tenant_id": "<the tenant id>"
 }
```

Software Blocking



Pre-Screening

Thank You