

Internet Government Shutdown

BELARUS

Methods of Monitoring and Collecting Evidence



ЗаТелеком

ОЗИ

ОБЩЕСТВО ЗАЩИТЫ ИНТЕРНЕТА

Terminology

OUTAGE: a period when a service, such as Internet, is not available

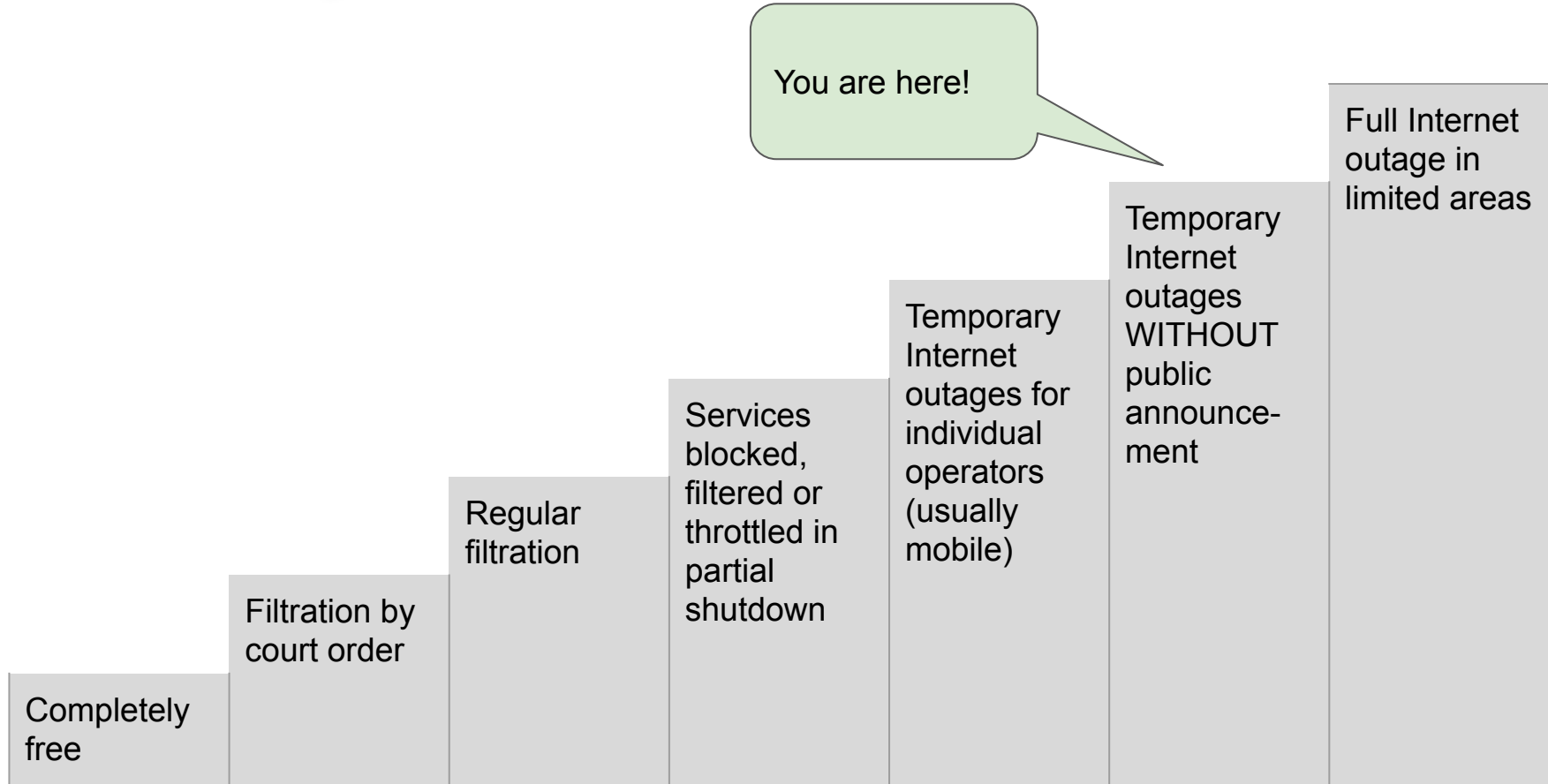
SHUTDOWN: the act or process of stopping the operation of a computer or other machine

Terminology

“An internet shutdown is an intentional disruption of internet or electronic communications, rendering them inaccessible or effectively unusable, for a specific population or within a location, often to exert control over the flow of information.”

Намеренное нарушение работы интернета или электронных средств коммуникации, в результате которого они становятся полностью или частично непригодными для использования конкретными людьми или в конкретном месте, зачастую осуществляемое для получения контроля над потоками информации.

Stairway of Internet Shutdown



Organization

Информация о группе



Цифровые наблюдатели ВУ

473 участника



Канал, куда мы публикуем новости и апдейты о работе белорусского интернета
<https://t.me/zabynet>

Инвайт линк в чат Цифровых наблюдателей:

<https://t.me/joinchat/AAAAAFBcaGleg>

Информация

Информация о канале



За ВУnet

4 118 подписчиков



t.me/zabynet

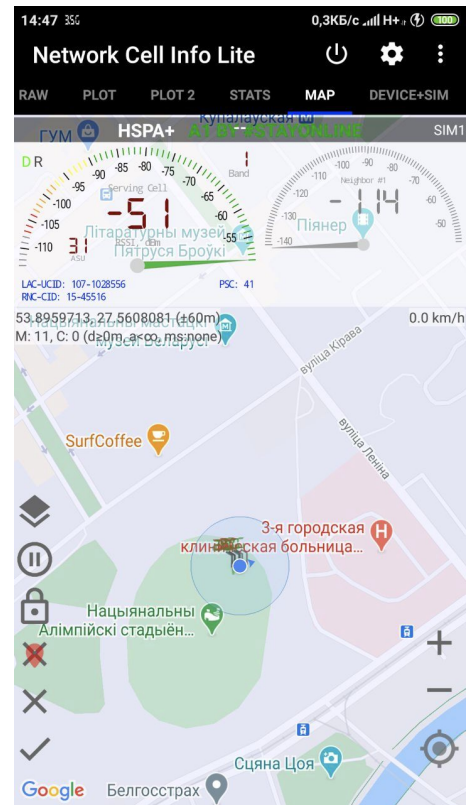
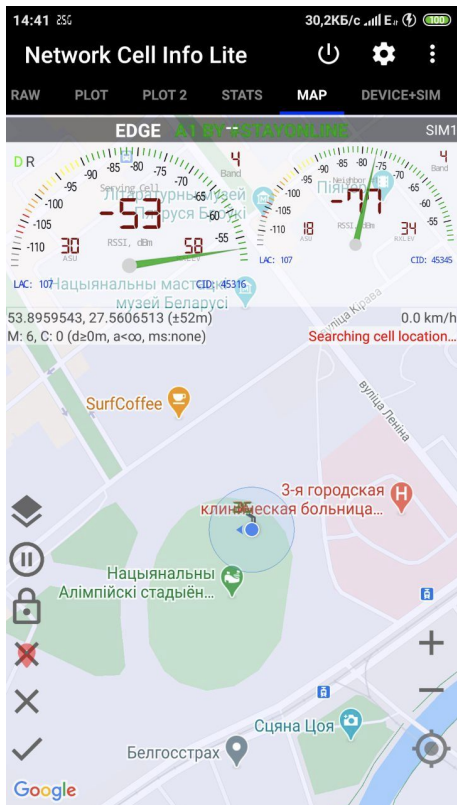
Ссылка

Мы следим за ситуацией с блокироками белорусского интернета и даём рекомендации о том, как их обходить. Чат канала:
<https://t.me/joinchat/AAAAAFBcaGlegtbrq0H4w>

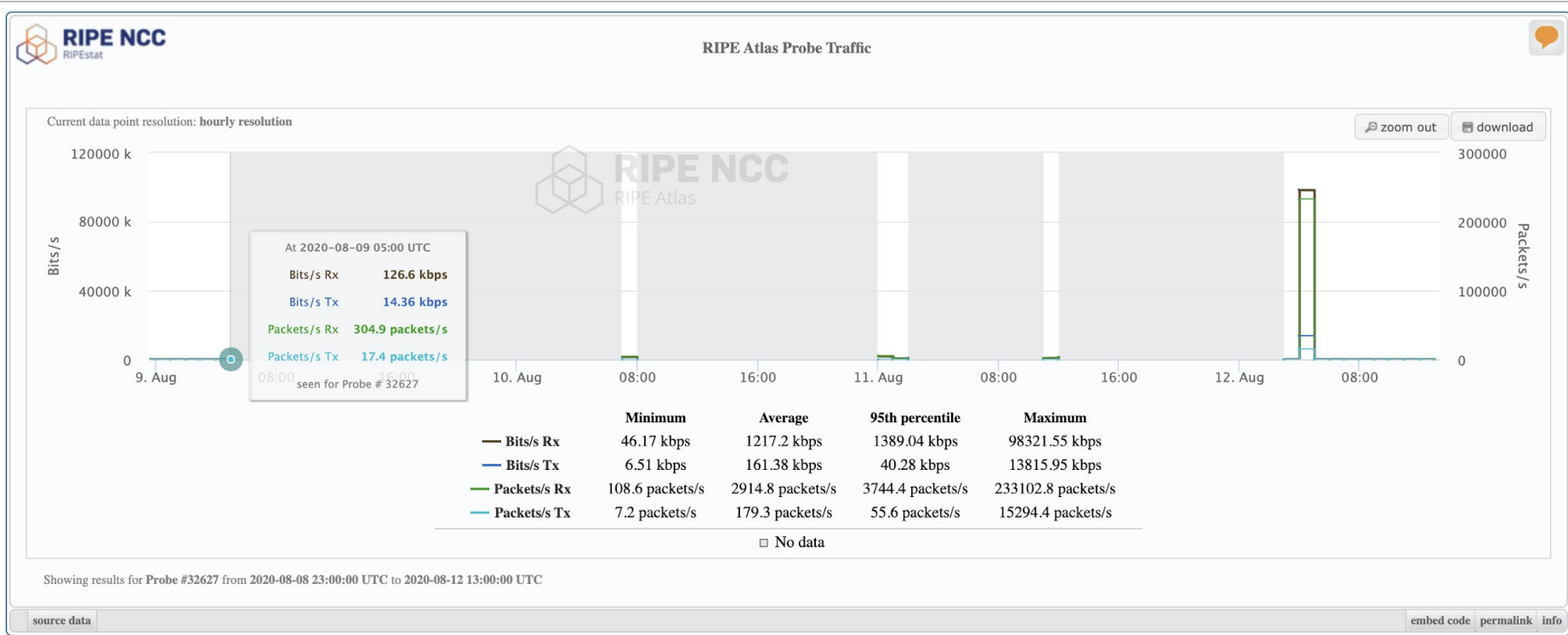
Для новостей и вопросов: [@Zabynet_bot](#)

Информация

What are we doing



What happened



https://atlas.ripe.net/probes/?af=&status=&country=BY&search=&order=_status_#!tab-public

What happened



https://labs.ripe.net/Members/alun_davies/our-first-glance-at-the-belarus-outages

<https://telegra.ph/Nash-pervyj-vzglyad-na-otklyuchenie-interneta-v-Belarusi-RIPE-NCC-08-12>

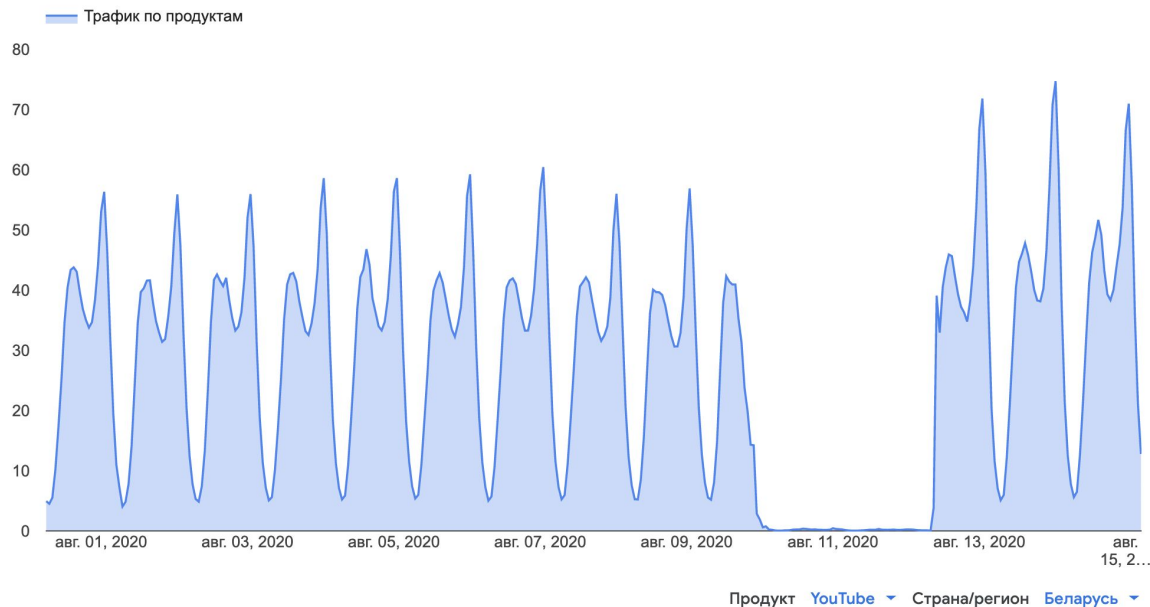
What happened



<https://ioda.caida.org/ioda/dashboard#view=inspect&entity=country/BY&ioda-triple-signal-dialog.chartType=line&from=-1w&until=now>

What happened

Дата начала 📅 31.07.2020 Дата окончания 📅 14.08.2020



https://transparencyreport.google.com/traffic/overview?hl=ru&disruption_history=product:1;region:BE;size:4&lu=fraction_traffic&fraction_traffic=start:1596153600000;end:1597449599999;product:21;region:BY

What happened



<https://explorer.ooni.org/country/BY>

What happened

Национальным центром реагирования на компьютерные инциденты Республики Беларусь (CERT.BY) 8.08.2020 около 22:00 зафиксирована большая волна DDoS-атак на инфраструктуру сети BY-NET.

Установлено, что атакам подвергалось оборудование, на котором размещены, в том числе, сайты Комитета государственной безопасности Республики Беларусь (kgb.gov.by) и Министерства внутренних дел Республики Беларусь (mvd.gov.by).

Воздействие продолжилось и 9.08.2020. Были совершены атаки в 2:52 и 6:17, их продолжительность составила около 1 часа для каждой. Необходимо отметить, что пиковое значение зафиксировано на отметке 203 Гб/с, а среднее из расчета 91+49 Гб/с.

Злоумышленники использовали следующие технологии воздействия:

- UDP Flooding
- UDP Fragment
- UDP0 Flooding
- DNS Flooding
- ICMP Misuse
- NTP Flooding

What happened

Национальным центром реагирования на компьютерные инциденты Республики Беларусь (CERT.BY) 8.08.2020 около 22:00 зафиксирована большая волна DDoS-атак на инфраструктуру сети BY-NET.

Установлено, что атакам подвергалось оборудование, на котором размещены, в том числе, сайты Комитета государственной безопасности Республики Беларусь (kgb.gov.by) и Министерства внутренних дел Республики Беларусь (mvd.gov.by).

8.08.2020. Были совершены атаки в 2:52 и 6:17, их продолжительность составила около 10 минут. Также отмечаем, что пиковое значение зафиксировано на отметке 203 Гб/с, а среднее из

использовали следующие технологии воздействия:

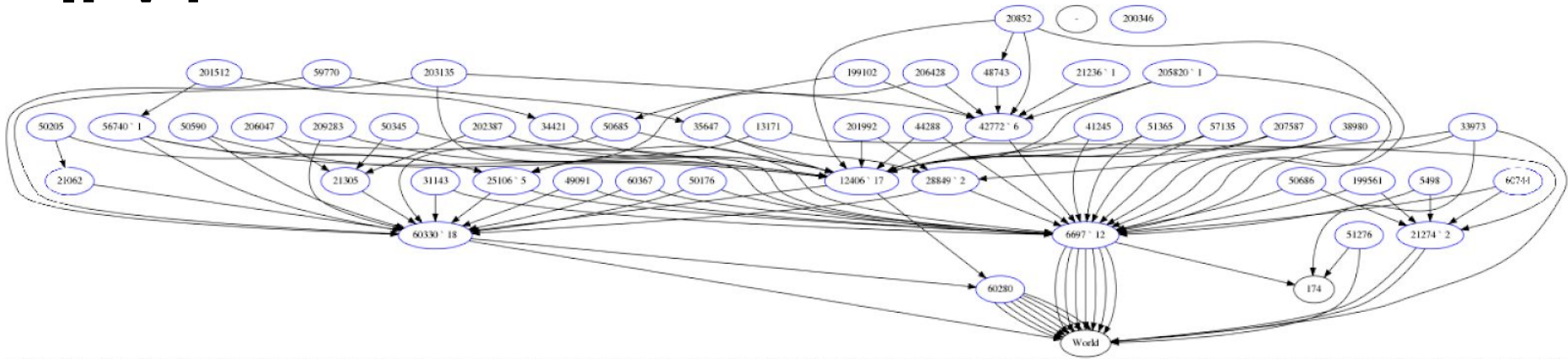
- DP Fragment
- DP0 Flooding
- DNS Flooding
- ICMP Misuse
- NTP Flooding



LYING

Why happened

IPv4

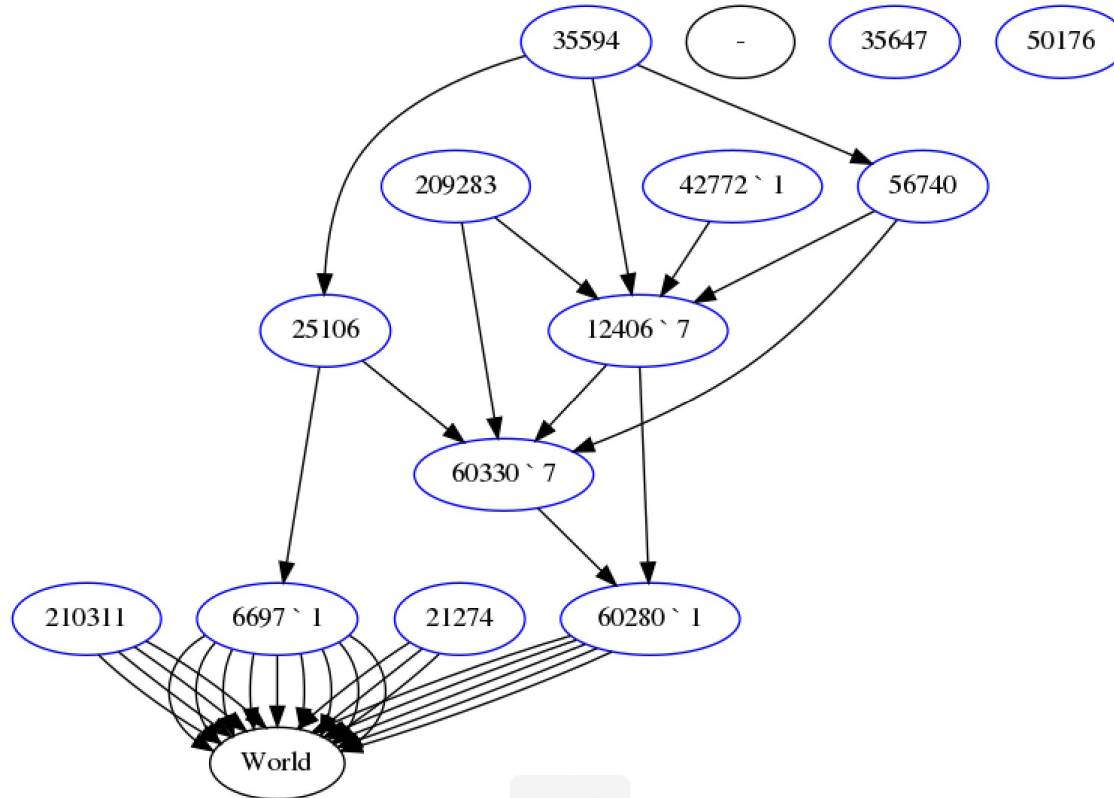


<https://radar.grator.net/blog/what-happening-BY>

<https://telegra.ph/What-is-happening-with-the-BY-internet-segment-in-terms-of-BGP-and-IPv4IPv6-08-11>

Why happened

IPv6



В управлении
интернетом должно
быть как можно
меньше государства

What will we do next

India's top court rules indefinite internet shutdown in Kashmir unwarranted and amounts to abuse of power

Manish Singh @refsrc / 1:30 PM GMT+5 • January 10, 2020

Comment



Image Credits: Saqib Majeed / SOPA Images / LightRocket / Getty Images

ECOWAS Court upholds digital rights, rules 2017 internet shutdowns in Togo illegal

25 JUNE 2020 | 7:19 AM

Tweet



Share

June 25, 2020 — Today, the Economic Community of West African States (ECOWAS) Community Court of Justice ruled that the September 2017 internet shutdown ordered by the Togolese government during protests is illegal and an affront to the applicants' right to freedom of expression. The court ordered the government of Togo to pay two million CAF to the plaintiffs as compensation, and to take all the necessary measures to guarantee the implementation of safeguards with respect to the right to freedom of expression of the Togolese people.

"Congratulations to the civil society of Togo, who brought the world's attention to this egregious censorship and held their government accountable for interfering with their work advancing the public interest and democratic values," said **Peter Micek, General Counsel at Access Now**. "Digital rights are human rights, the court has declared, and Togo's government must meet its commitments to protect human rights, online as offline."

Indonesians seek justice after internet shutdown

13 MAY 2020 | 9:11 AM

Tweet



Share

Last week, ahead of the expected May 13th hearing, Access Now filed an amicus brief with the Jakarta Administrative Court in relation to a legal case challenging the 2019 internet shutdowns in the Papua and West Papua provinces of Indonesia. This "friend-of-the-court" brief argues that state-ordered internet shutdowns are incompatible with international law, as well as Indonesia's Constitution and domestic law.

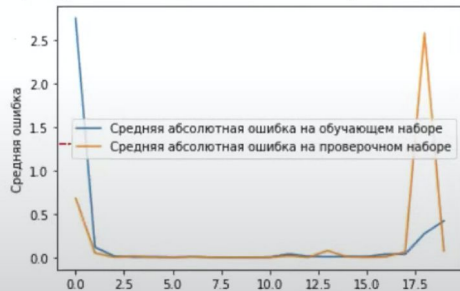
In 2019, at least 33 countries shut down the internet, with a minimum of 213 incidents globally. Governments in Asia, like in the previous years, ordered the lion's share of internet shutdowns around the world. Indonesia shut down the internet at least three times in 2019.

Civil society has pushed back. The Alliance of Independent Journalists (AJI) and Southeast Freedom of Expression Network (SAFENet) filed a lawsuit against the Ministry of Communication and Information of the Republic of Indonesia (Kominfo RI) and the Indonesian President to challenge these shutdowns. They argue that the government's actions that terminated the internet violated the freedom of the press and the right to information because journalists were unable to report and inform the public about the protests. We support their arguments and their bid for justice after a series of measures violating freedom of expression and other human rights in Indonesia.















Prediction machine learning

+ Код + Текст

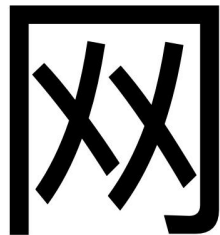
```
[19] 37/37 [=====] - 0s 11ms/step - loss: 0.0042 - val_loss: 0.0033
Epoch 11/20
37/37 [=====] - 0s 11ms/step - loss: 0.0086 - val_loss: 0.0041
Epoch 12/20
37/37 [=====] - 0s 11ms/step - loss: 0.0427 - val_loss: 0.0228
Epoch 13/20
37/37 [=====] - 0s 10ms/step - loss: 0.0165 - val_loss: 0.0034
Epoch 14/20
37/37 [=====] - 0s 10ms/step - loss: 0.0110 - val_loss: 0.0823
Epoch 15/20
37/37 [=====] - 0s 10ms/step - loss: 0.0148 - val_loss: 0.0097
Epoch 16/20
37/37 [=====] - 0s 11ms/step - loss: 0.0139 - val_loss: 0.0047
Epoch 17/20
37/37 [=====] - 0s 11ms/step - loss: 0.0413 - val_loss: 0.0114
Epoch 18/20
37/37 [=====] - 0s 11ms/step - loss: 0.0413 - val_loss: 0.0683
Epoch 19/20
37/37 [=====] - 0s 11ms/step - loss: 0.2786 - val_loss: 2.5856
Epoch 20/20
37/37 [=====] - 0s 11ms/step - loss: 0.4248 - val_loss: 0.0788
```



As IDEA

Title (show slug) ▾	Example	Prefix ▾	IP address ▾	ASN ▾	Hostname ▾	Country code ▾
Abuse Contact Finder		✓	✓	✓		
Address Space Hierarchy		✓	✓			
Address Space Usage		✓	✓			
AFRINIC Transfer History		✓	✓	✓		
Allocation History		✓	✓	✓		
Allocation History	<div>Displays information about allocations and direct assignments of prefixes or AS numbers.</div>			✓		
Allocation History				✓		
Announced Prefixes (Ursa)				✓		
APNIC Abuse Contact Finder		✓	✓	✓		
APNIC IRR Explorer		✓	✓	✓		
APNIC Transfer History		✓	✓	✓		
AS Overview				✓		
AS Path Length				✓		
AS Routing Consistency				✓		
ASN Neighbours				✓		
ASN Neighbours History	<div>Shows the total count of neighbouring ASNs. It provides a view similar to what a normal provider with a full routing table would encounter.</div>					
RIPE Atlas Probe Deployment						
RIPE Atlas Probes						✓

???



ЗаТелеком

ОЗИ

ОБЩЕСТВО ЗАЩИТЫ ИНТЕРНЕТА

Климарев Михаил
klimarev@gmail.com
tg://@klimarev