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Jasa
Internet
Indonesia

INDONESIA INTERNET SERVICE PROVIDER ASSOCIATION



IDNIC

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network
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IDNIC NIR Operations Update

Prepared by IDNIC

2021



Manage & Distribute
IP from APNIC



Training and
Workshop



Supporting National
Internet Development



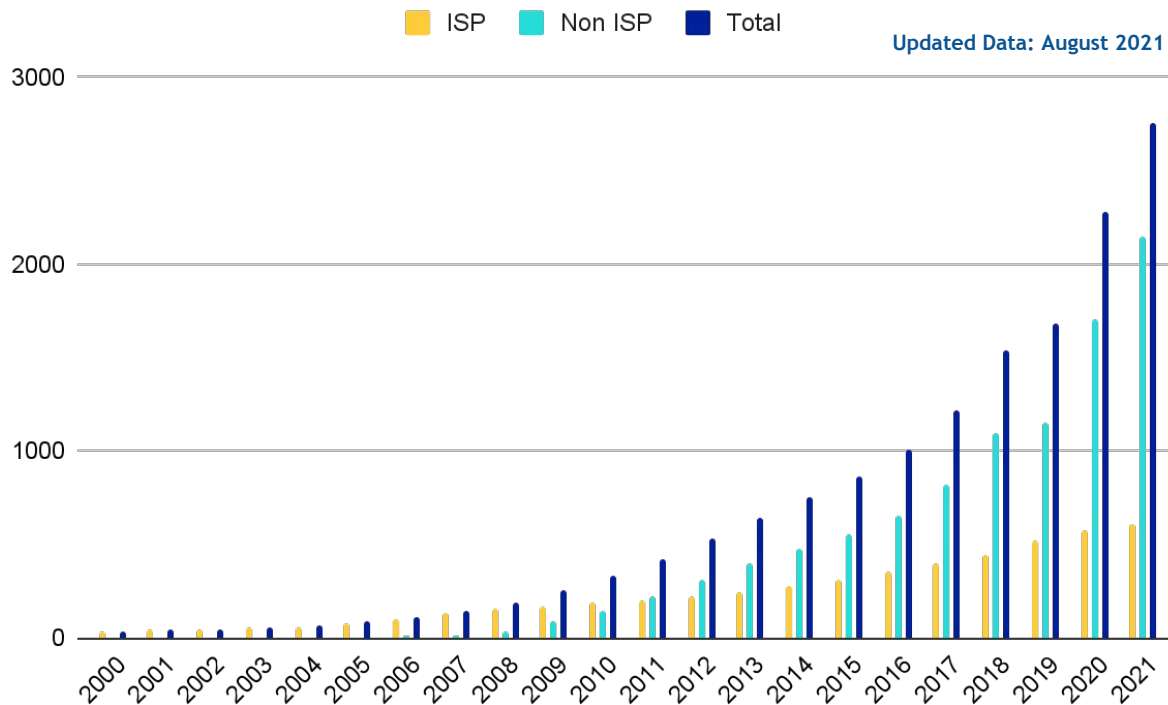
Serving IDNIC
Members



Cooperating with
APNIC & NIRs

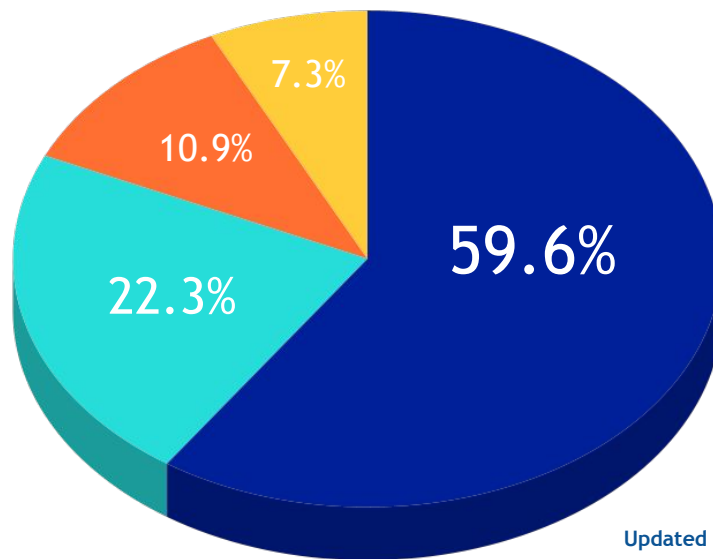
IDNIC Activities

IP & ASN Delegation



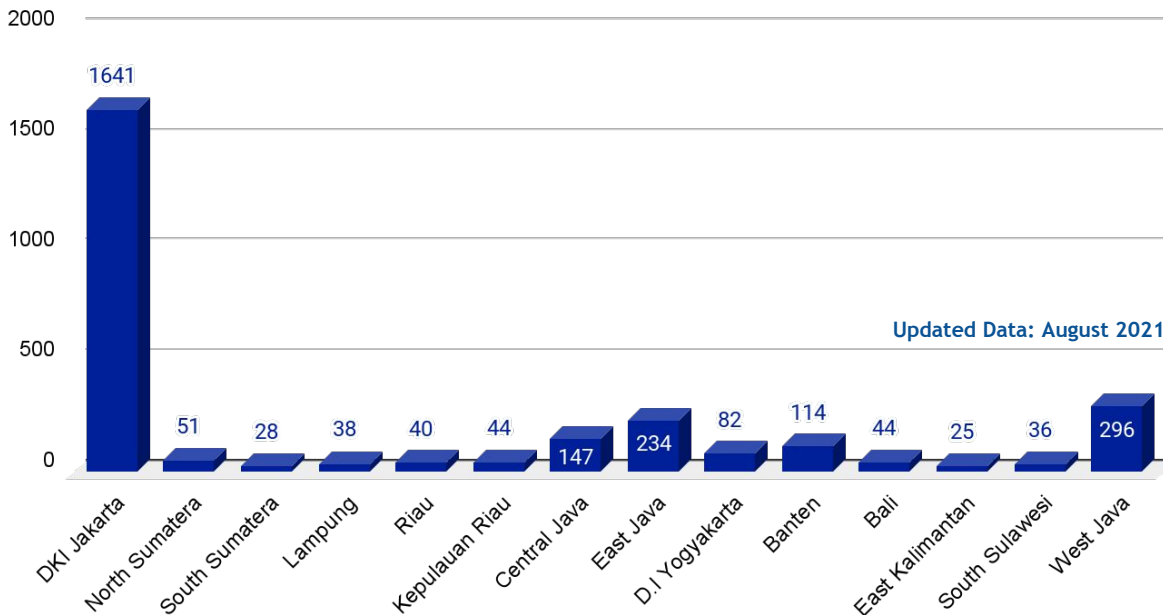
IDNIC Member Statistics

● Corporate & Associations ● ISP & NAP ● Government ● Educations

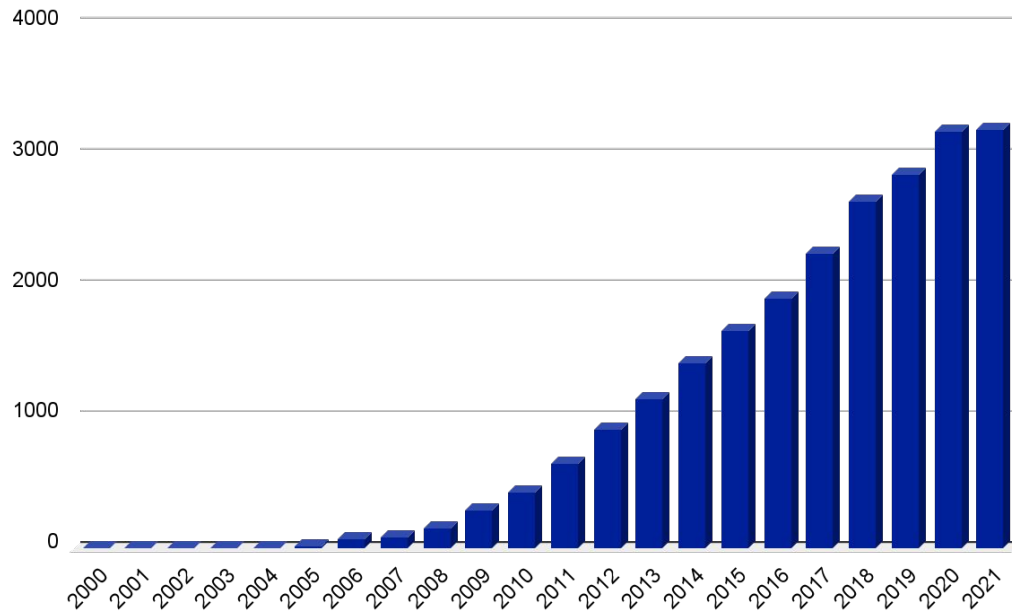


Updated Data: August 2021

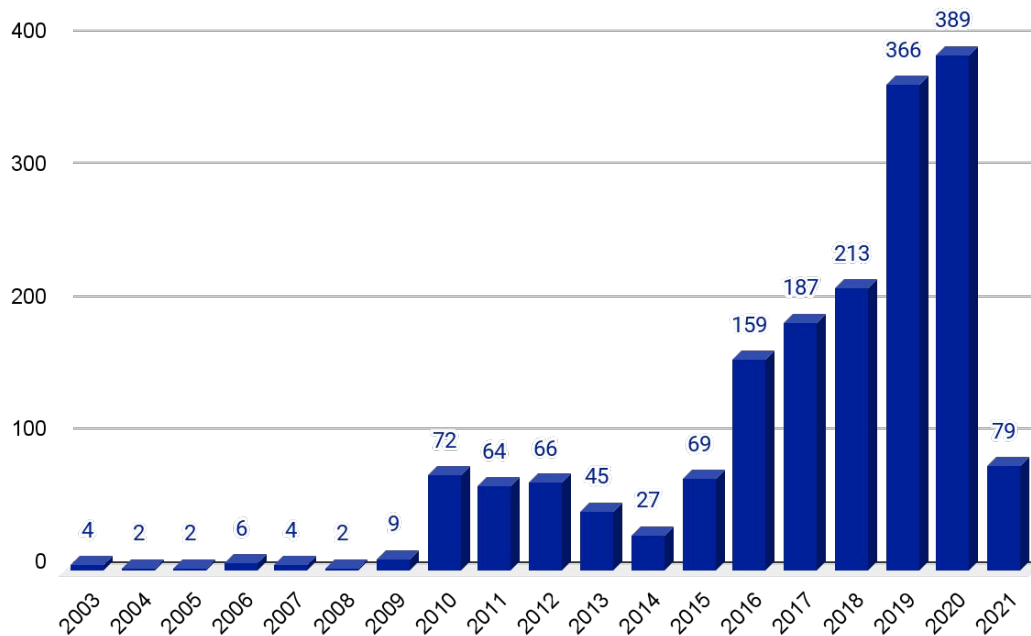
IDNIC Member Compositions



IDNIC Member Distributions

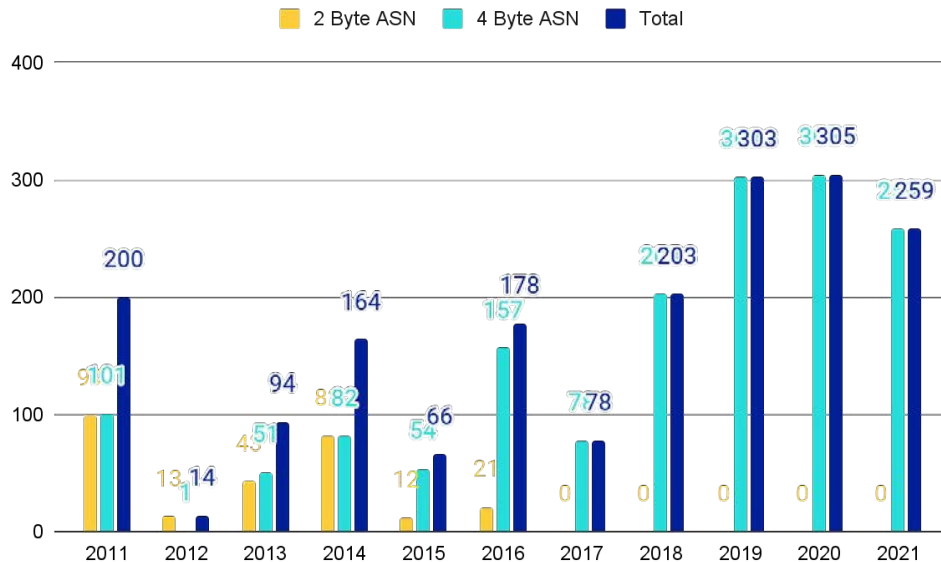


IPv4 Delegated
>18 Million Address



IPv6 Delegated

>43 Million /48 IPv6 Address



ASN Delegation
 >2100 ASN Delegation

IDNIC Member Services



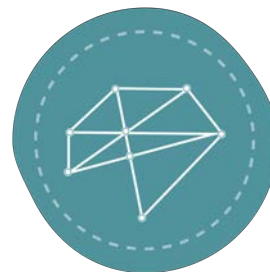
MyIDNIC



Whois



RPKI



IRR



CERT

Online Portal for IDNIC Members



MyIDNIC

A member portal that is useful for managing Internet resources, updating contact information, and receiving IDNIC services online.

Whois Update & Tools

ROA & RPKI Request

Reverse DNS

Trouble Tickets

IRR Management

Supporting National Internet Development



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IDNIC RPKI PROGRESS

1

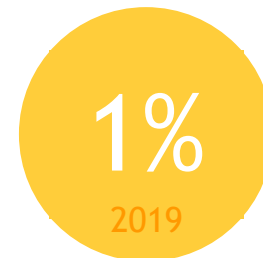
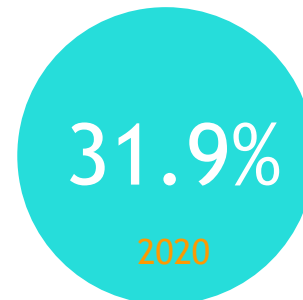
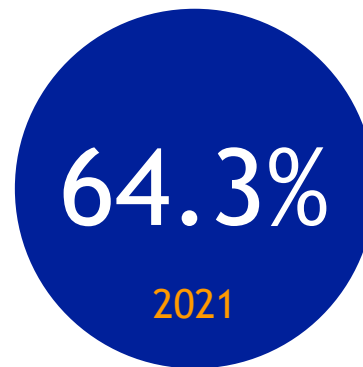
2021

IDNIC NIR Operations Update

State of RPKI in Indonesia

BGP Advertisement Covered by RPKI

<https://observatory.manrs.org/>



HOW WE APPROACH THAT NUMBER?



Webinar



Direct Contact

- Personal touch on telegram group
- Email blast targeted



Publication

IDNIC RPKI Plan

Q4
2020



Support contract with NLNet Labs

Q3
2021



Upgrade to krill v0.9.0



Add krill-sync nodes

Q4
2021



Enable RPKI validation on national internet exchange

IDNIC IRR Routing Completeness

94.3%

Registered

IDNIC Geoloc & Meta Feeds



Ipinfo.io, maxmind

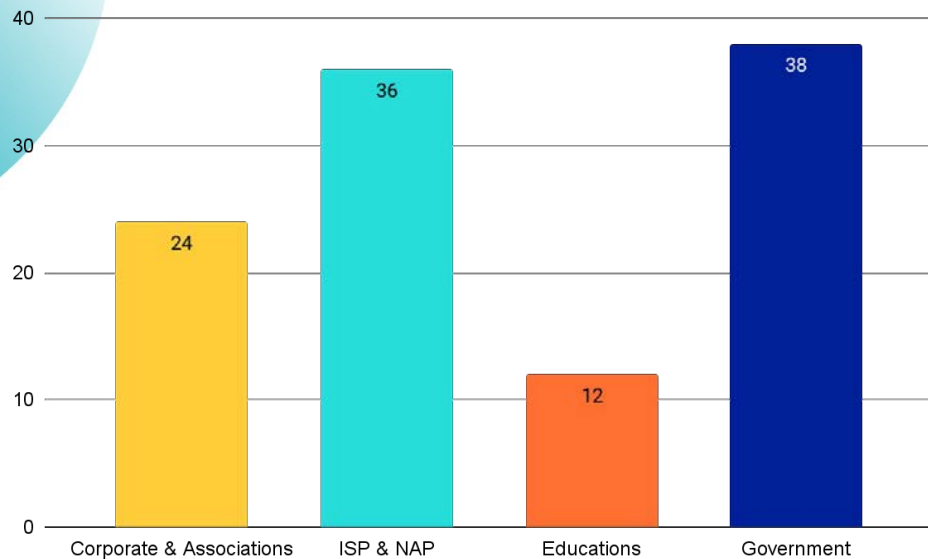


Google (on progress)



IDNIC IPv6 Deployment

2



Percentage of Advertised

IPv6

From >2755 IDNIC Members
(August 2021)

IDNIC Product Development



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KAKABRA

2021

IDNIC NIR Operations Update

What is KADABRA?

KADABRA is a smart routing analyzer, collector and platform at IDNIC in charge of collecting data and information from the internet in Indonesia, grouping and visualizing the results to the public.

Historical Incidents

The first Public Validator in Indonesia

Modular Concept

KADABRA Milestones

Launched in all parts of Indonesia through IIX APJII

2021

Making KADABRA v2 with significant progress and integration plans with third-party services



2020

KADABRA was first created by collaborated with RIPE NCC (RIPE Atlas Projects)

2019

KADABRA Dashboard

KADABRA

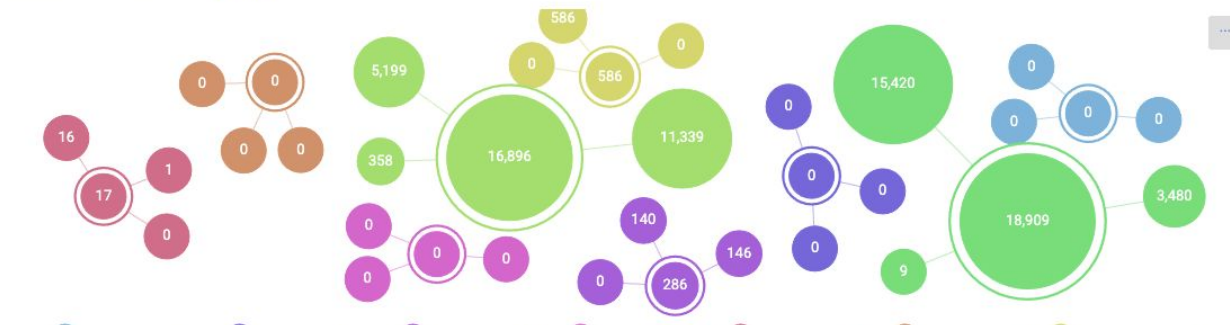



[Home](#)
[BGPlay](#)
[Dataset](#)
[Apa itu KADABRA?](#)
[Bergabung dengan KADABRA](#)

Routing Information Service Live (RIS Live)

RIS Live is a feed that offers BGP messages in real-time. It collects information from the RIS Route Collectors (RRCs) and uses a WebSocket JSON API to monitor and detect routing events around the world. A non-interactive full stream ("firehose") is also available.

RPKI Deployment History by RAGNO



RAGNO	Deployment Count
OpenIX (RC03)	16,896
UNY-IX (RC02)	18,909
IIX Sursel (RC05)	15,420
IIX Surabaya (RC04)	586
IIX Jabar (RC07)	286
IIX Kaltim (RC06)	17
IIX Jogja (RC09)	0
IIX Riau (RC11)	0
IIX Jateng (RC08)	0
IIX Sumsel (RC05)	0
IIX Bali (RC10)	0
IIX Kalimantan (RC06)	0
IIX Sulawesi (RC05)	0
IIX Sumatera (RC04)	0
IIX Papua (RC12)	0
IIX Maluku (RC13)	0
IIX Nusa Tenggara (RC14)	0
IIX Kalimantan (RC15)	0
IIX Sulawesi (RC16)	0
IIX Sumatera (RC17)	0
IIX Papua (RC18)	0
IIX Maluku (RC19)	0
IIX Nusa Tenggara (RC20)	0
IIX Kalimantan (RC21)	0
IIX Sulawesi (RC22)	0
IIX Sumatera (RC23)	0
IIX Papua (RC24)	0
IIX Maluku (RC25)	0
IIX Nusa Tenggara (RC26)	0
IIX Kalimantan (RC27)	0
IIX Sulawesi (RC28)	0
IIX Sumatera (RC29)	0
IIX Papua (RC30)	0
IIX Maluku (RC31)	0
IIX Nusa Tenggara (RC32)	0
IIX Kalimantan (RC33)	0
IIX Sulawesi (RC34)	0
IIX Sumatera (RC35)	0
IIX Papua (RC36)	0
IIX Maluku (RC37)	0
IIX Nusa Tenggara (RC38)	0
IIX Kalimantan (RC39)	0
IIX Sulawesi (RC40)	0
IIX Sumatera (RC41)	0
IIX Papua (RC42)	0
IIX Maluku (RC43)	0
IIX Nusa Tenggara (RC44)	0
IIX Kalimantan (RC45)	0
IIX Sulawesi (RC46)	0
IIX Sumatera (RC47)	0
IIX Papua (RC48)	0
IIX Maluku (RC49)	0
IIX Nusa Tenggara (RC50)	0

KAKABRA RIS

Filter

You can search or filter specific value from our RIS (Routing Information Service) to get detailed specific data on the right window

Prefix:

Path:

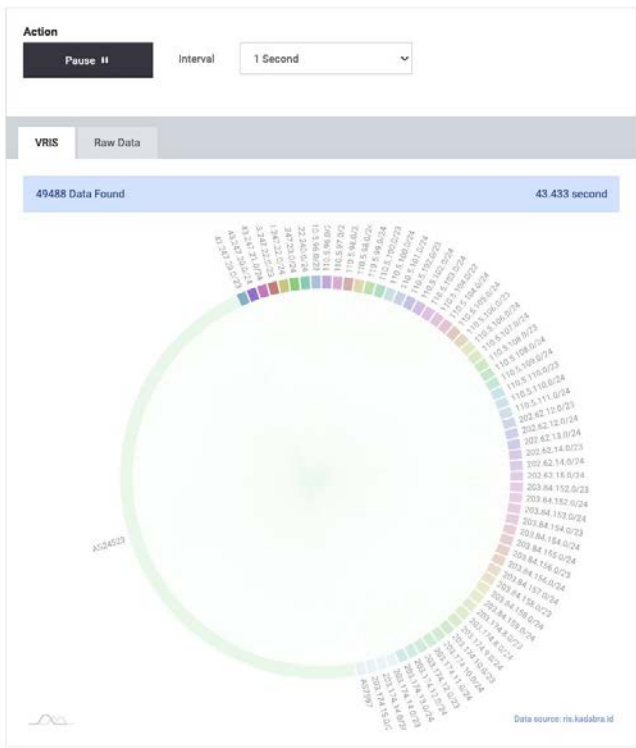
Type:

Require:

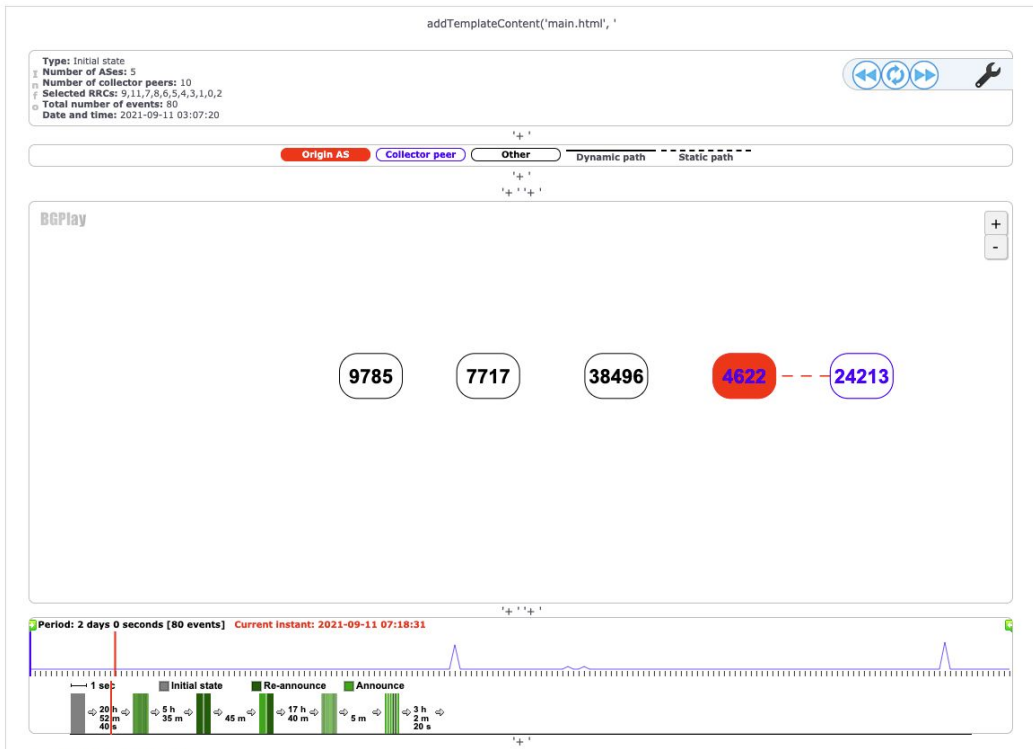
HOST:

- All
- IIX Joje (RC09)
- IIX Riau (RC11)
- IIX Jabar (RC08)
- IIX Jateng (RC08)
- IIX Kaltim (RC06)
- IIX Sulse (RC05)
- IIX Surabaya (RC04)
- OpenIX (RC03)
- CloudeXchange (RC01)
- IIX Jakarta (RC00)
- UNY-IX (RC02)

PEER:



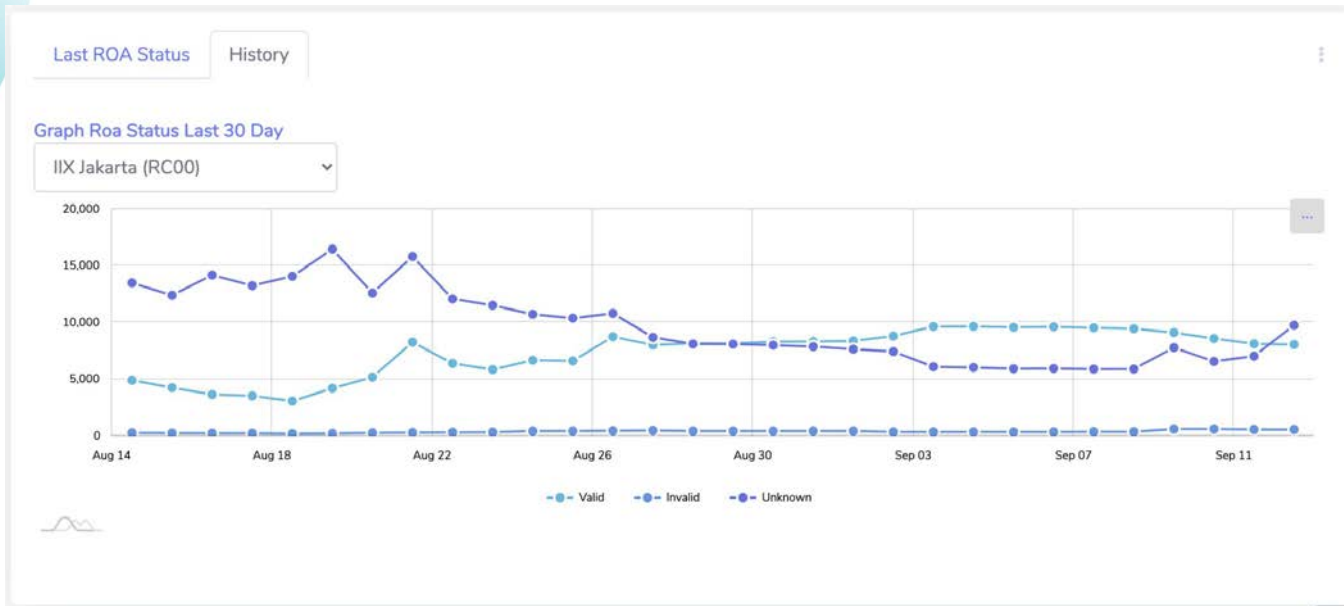
KAKABRA BGPlay



KAKABRA RAGNO



KAKABRA RAGNO



KAKABRA RAGNO

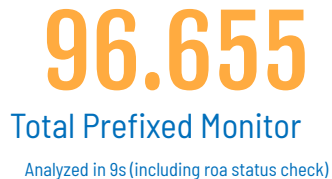
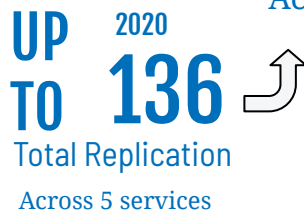
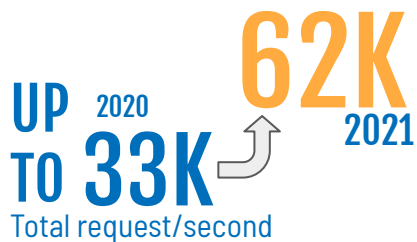
No	↑↓	Date	↑↓	Prefix	↑↓	Source	↑↓	AS Number	↑↓
1		2021-09-13		45.115.73.32/28		OpenIX		58731	
2		2021-09-13		45.115.73.0/28		OpenIX		58731	
3		2021-09-13		45.115.73.16/28		OpenIX		58731	
4		2021-09-13		45.115.73.48/28		OpenIX		58731	
5		2021-09-13		175.184.233.208/30		OpenIX		9341	
6		2021-09-13		180.178.94.128/25		OpenIX		45722	
7		2021-09-13		180.178.94.0/25		OpenIX		45722	
8		2021-09-13		103.163.140.252/30		OpenIX		141901	
9		2021-09-13		163.181.26.245/32		OpenIX		24429	
10		2021-09-13		103.162.144.48/30		IIX Jakarta		141654	

KADABRA 2020-2021



Total eXchange Connected

IIX (Jatim, Jabar, Sulsel, Kaltim, Jateng, Jakarta), OpenIXP, CXC, UNY-IX



Cloud Engineer, Database Engineer, Application Developer, Network Engineer, dan Project Manager.



JETDINO, BIZNET, Cloudflare, Alibaba, Google Cloud, Amazon AWS



Whats Next ?

Service Gateway

Realtime Resources Tracker

Indicent Status

Extra Miles

What's Next ? Stay tune for KADABRA next release(s)

2023

Launch KADABRA STATUS into public

2022

Initiate some enhancements for KADABRA STATUS, KADABRA Statistics and IXP Prefix Check

2021



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2021

IDNIC NIR Operations Update

What is Kyu?

Kyu is IaaS (Integration as a Provider) or what can be called IDNIC Business Intelligence. Will have a dashboard to monitor all IDNIC services that will be integrated with 3rd-party (eg government, either community or commercial).

Service Gateway

Source of Truth

Data Exchange Gateway

Milestones

As incident's source of internet truth in Indonesia, which is integrated with MyIDNIC

2021

Integrated with NIR, RIR, Government, education and private sector.

2022

IDNIC Big Data

2023


kyu.dev.kadabra.id/client/resource

Config

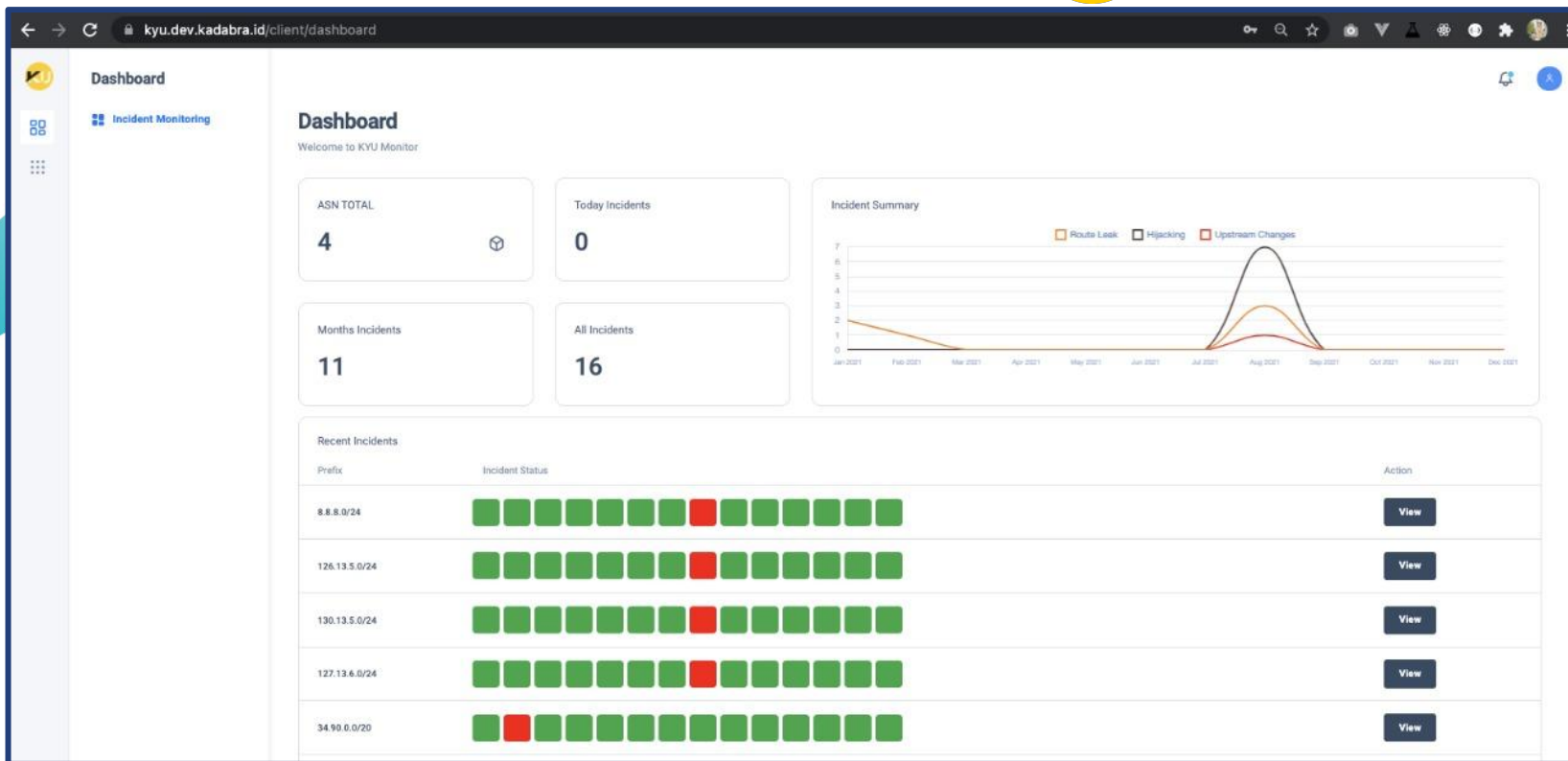
- Monitored Prefix
- Users
- Services

ASN

[+ Add ASN](#)



RCC	Peer As	As Path	Origin As	Prefix	Type	Action
08	12334	(30000), (30000)	2454544	103.10.11.103	member	...
02	55600	(55600), (7597), (4622)	4622	203.119.13.0/24	public	...
00	22111	(1221), (30000), (123123), (233), (123123), (932849), (945345), (242342), (30000), (123123)	24211	203.119.13.0/24	public	...
06	23123	(24234234), (23423424), (34234234)	12312312	103.1231.123.11	public	...





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Possibility to collaborate on product development?

Email to :

sekretariat@idnic.net

Training & Workshop



IDNIC Webinar Series 2021



You're Invited to Join

IDNIC WEBINAR 2021 SERIES #1

22 - 26 | **08:00 - 16:00**
MAR 2021 | WIB

Peserta juga dapat melakukan Hands on Practice via Virtual Lab IDNIC dalam webinar

Dapatkan E-Sertifikat & DOORPRIZE

REGISTER:
s.id/idnicwebinars1

Informasi: Christy +62822 4685 5141 (Whatsapp)



IDNIC WEBINAR 2021 SERIES #2
A New Way to Maximize Internet Management
23 - 27 Agustus 2021

Speakers:
 Frendy Yusrini R. (IDNIC Trainer, LW Core NOC)
 Arif Kurniawan (IDNIC Trainer, LW IT Staff)
 Dewangga B. Alam (IDNIC Trainer, APNIC Information Security Co-Train)
 M.N. Budiwijaya (IDNIC Trainer, Infrastructure Gen. IDNIC)
 Akhmad Rafliudin (IDNIC Trainer, LW IT Staff)
 Fietyata Yudha (IDNIC Trainer, LW IT Staff)
 David Aditya Y.P. (IDNIC Trainer, IDNIC Hostmaster)

Peserta juga dapat melakukan Hands on Practice via Virtual Lab IDNIC dalam webinar

Dapatkan E-Sertifikat & DOORPRIZE

REGISTER: s.id/IDNICwebinars2

5
Courses

- Info Sec
- BGP
- BGP RPKI
- IPv6
- IRM

2
Series

March
August

>663
Total Participants

HANDS ON VIRTUAL LAB

>3000
Livestream Views

Subscribe our Youtube
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IDNIC Academy

What is IDNIC Academy?

IDNIC Academy is an independent learning platform for IDNIC members regarding online information technology knowledge with a basic to advanced level curriculum designed by experienced trainers. Aims to assist network operators, trainers, and regulators in understanding network practices, principles, and techniques, as well as managing Internet resources and using Internet technology effectively and efficiently.

E-Certificate

750+
Users

Virtual
Lab

Available
Free

Many courses
upcoming



IDNIC Academy

Milestones

The process of working on 8 additional materials in 2021 and is open to the public.

2021

Planning and development process in early 2020, Launching November 26, 2020, 2 materials have been published

2020

Visit IDNIC Academy at
<https://academy.idnic.net/>

Cooperating with APNIC & NIRs



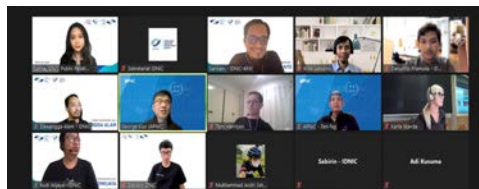
IDNIC - VNNIC

Joint discussion with VNNIC discussing IPv6 implementation in Vietnam. Through these discussions, IDNIC gained information and insight on how to implement IPv6 in Vietnam.



IDNIC - APNIC

IDNIC and APNIC provide information regarding ongoing developments such as RPKI, IPv4 & IPv6 status, policy development, product information, and others.



IDNIC - APNIC, WIDE & JPRS

IDNIC discussed with APNIC, WIDE, and JPRS about the need and implementation of M-Roots

www.idnic.net

Operational Hours

09.00-17.00 WIB

Address

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