You run out of excuses!

It's time to monitor your BGP and RPKI operations

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I work at NTT



Large network, we run a lot of software to control it

BGPalerter (since 2019)

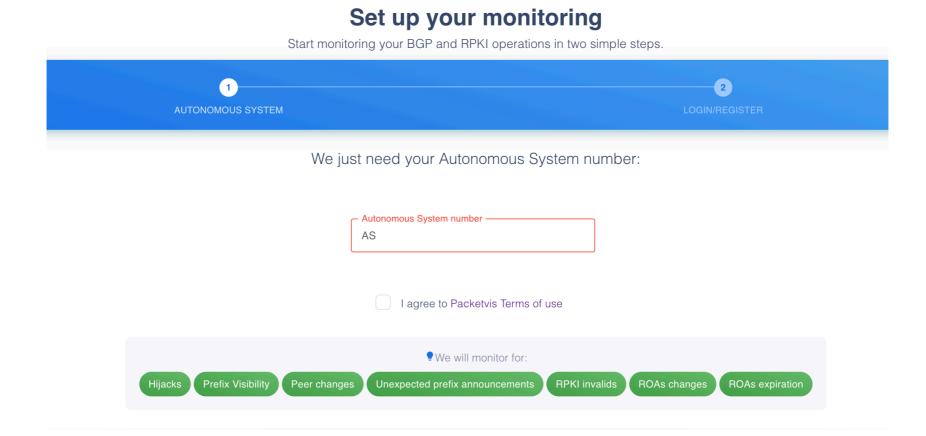
- BGP and RPKI monitoring
 - Monitor your AS as seen by thousands of vantage points
 - Send alerts wherever you want
- Developed at NTT to monitor our network
- Released open source
 - https://github.com/nttgin/BGPalerter
 - Used by hundreds of operators worldwide
 - More operators monitoring = more stable Internet ...last year I showed how some operators realize they are announcing RPKI invalids after more than 1 month
- Download and run!

IT'S EASY, BUT WE ARE ALL LAZY!

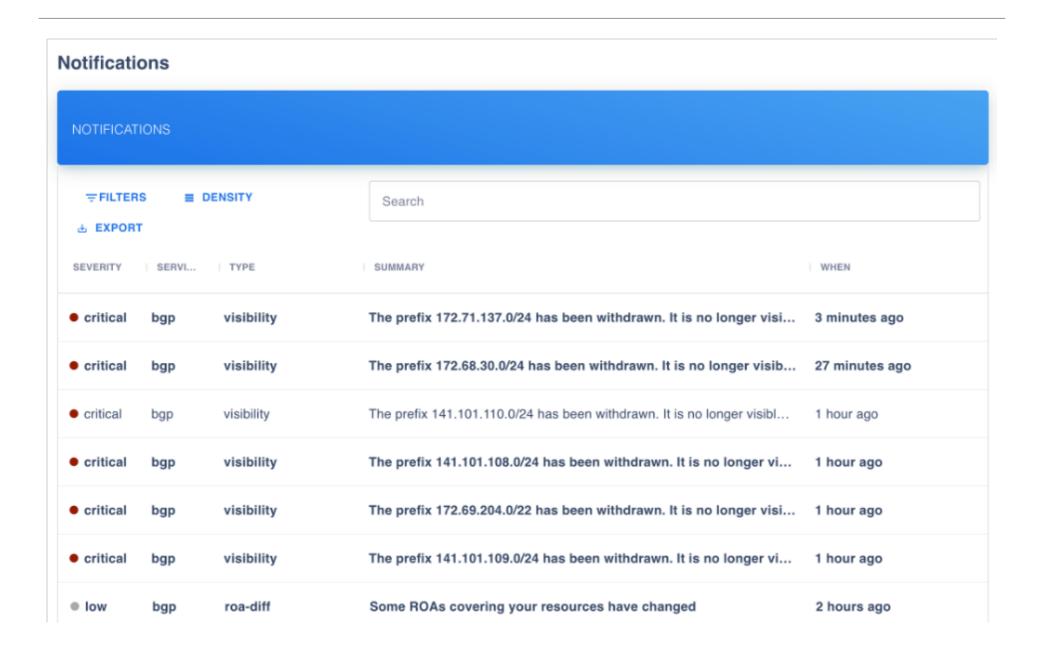


PacketVis.com

A BGPalerter as a service (not an NTT product)



PacketVis.com - notifications dashboard



PacketVis.com - view event details

BGP Event - Hijack

A new prefix 164.43.141.0/24 is announced by AS4713. It should be instead 164.43.0.0/16 announced by AS3949.

Details

Severity:





Monitored prefix:

164.43.0.0/16

Hijacked with prefix:

164.43.141.0/24

Started being hijacked at:

2022-10-01 00:14 UTC

Type:

Hijack

Usually announced by:

AS3949 (NTTA-3946)

Currently announced by:

AS4713 (4713)

Affected at least 3 peers:

193.148.249.191 (Frankfurt am Main, Germany)

194.50.19.4

45.14.68.69 (Victoria, Hong Kong)

Actions

Is AS4713 allowed to announce 164.43.141.0/24?



ALLOWED

By interacting with the actions, you can "confirm" or "mute" the alert. Your monitoring configuration will stay up to date.

PacketVis.com - configure what you want to see

Monitoring features MISCONFIGURATION RPKI DISAPPEAR HIJACK **VISIBILITY** Monitor for origin hijacks. Get notified when your AS is Get notified when one of your prefixes Get notified when a prefix was announcing prefixes not in the current loses visibility. previously covered by ROAs but no monitored configuration. longer is. **RPKI INVALID RPKI UNKNOWN ROA-DIFF ROA-EXPIRE** Get notified when your AS is Get notified when your AS is Monitor ROAs for changes affecting Monitor for ROA expiration announcing RPKI-invalid prefixes. announcing prefixes not covered by your prefixes or ASes. ROAs. **TA-EXPIRE TA-MALFUNCTION NEIGHBORS** Monitor for RPKI trust anchors failures Monitor for RPKI trust anchors failures Get notified when an unexpected AS

appears as upstream/downstream of

your AS.

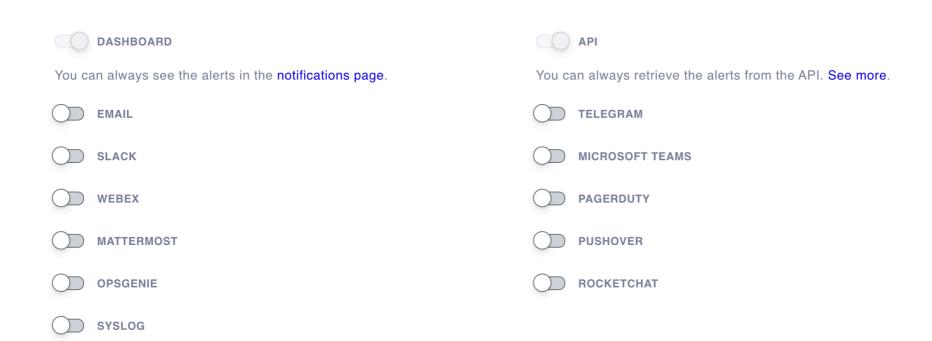
involving multiple disappearing ROAs.

involving multiple expiring ROAs.

PacketVis.com - configure integrations

Integrations

Edit how the monitoring is integrated with your systems



PacketVis.com - API

```
🛍 api.packetvis.com/v1/notifications/organizations/3?key=BF346C06-DBC006A4577C6A6C1A... 🖞 ☆ 🕎 😵 🕮
▼ "data": {
   "notifications": [
            "service": "bgp",
            "type": "visibility",
            "summary": "The prefix 172.70.150.0/24 has been withdrawn. It is no longer visible from at least 8 peers.",
            "url": "https://packetvis.com/#/bgp/event/f0ffe12ec3a36f9bd0536bb8859e13b3-159f430f-a028-4ebb-9e3e-e8cef191c05d/c
            "id": "f0ffe12ec3a36f9bd0536bb8859e13b3-159f430f-a028-4ebb-9e3e-e8cef191c05d",
            "dispatched": true,
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            "service": "bgp",
            "type": "rpki-invalid",
            "summary": "The route 103.21.244.0/24 announced by AS13335 is not RPKI valid.",
            "url": "https://packetvis.com/#/bgp/event/07152faa3151eb386dc19d25fe6eeef2-bfb829d5-8970-49ed-aafd-e24946195d05/6
            "id": "07152faa3151eb386dc19d25fe6eeef2-bfb829d5-8970-49ed-aafd-e24946195d05",
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            "severity": 4
        },
            "service": "bqp",
            "type": "neighbors",
```

Questions?

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