

Instances | EC2 | ap-south-1

EC2 Instance Console

Self-healing on AWS

Welcome to nginx

Homesteads file

Alertmanager

Node Exporter

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#instancesv=3;\$case=tags:true%5Cclient:false;\$regex=tags:false%5Cclient:false

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aws

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[Alt+S]

Asia Pacific (Mumbai)

sandeep86 (7303-3538-5079)

sandeep\_B

EC2 > Instances

EC2

Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Instances (1/1) Info

Last updated about 3 hours ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	selfinfra	i-00f0c6b448bef1a32	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a

i-00f0c6b448bef1a32 (selfinfra)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-00f0c6b448bef1a32

IPv6 address

-

Public IPv4 address

35.154.196.70 | open address

Instance state

Running

Private IPv4 address copied

172.31.36.76

Public DNS

```
ubuntu@ip-172-31-36-76:~/self-heal$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                                                                                                     NAMES
a18ac68f4fe6   prom/node-exporter                  "/bin/node_exporter ..." 2 hours ago   Up 2 hours   0.0.0.0:9100->9100/tcp, :::9100->9100/tcp                     self-heal_node-exporter_1
4149fc35b48b   prom/prometheus                    "/bin/prometheus --c..." 2 hours ago   Up 2 hours   0.0.0.0:9090->9090/tcp, :::9090->9090/tcp                     self-heal_prometheus_1
d50eb2df6d73   prom/alertmanager                   "/bin/alertmanager --..." 2 hours ago   Up 11 minutes 0.0.0.0:9093->9093/tcp, :::9093->9093/tcp                     self-heal_alertmanager_1
7ba96d55ae05   prom/blackbox-exporter              "/bin/blackbox_exporter..." 2 hours ago   Up 2 hours   0.0.0.0:9115->9115/tcp, :::9115->9115/tcp                     self-heal_blackbox_1
ubuntu@ip-172-31-36-76:~/self-heal$
```

Instances | EC2 | ap-... x

EC2 Instance Conne... x

Self-healing on AWS x

Welcome to ngind x

Prometheus Time Se x

Alertmanager x

Node Exporter x

+ x

Not secure 35.154.196.70:9090/alerts

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Prometheus

Query

Alerts

Status ▾

🌙 | ⚙️ | 📖

Filter by rule group state ▾

Filter by rule name or labels

nginx-alerts /etc/prometheus/alert.rules.yml

INACTIVE (1)

NginxDown ▾

Instances | EC2 | ap-south | EC2 Instance Connect | ap | 35.154.196.70 | Prometheus Time Series C | Alertmanager | Node Exporter

← → ↻ Not secure 35.154.196.70:9090/targets ☆ ⌵ s ⋮

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Prometheus

Query Alerts Status > Target health

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Select scrape pool ⌵

Filter by target health ⌵

Filter by endpoint or labels

📄

nginx-uptime

1 / 1 up 🟢 ⌵

Endpoint	Labels	Last scrape	State
<a href="http://blackbox9115/probe">http://blackbox9115/probe</a>	instance="http://nginx:80" job="nginx-uptime" ⌵ module="http_2xx" target="http://nginx:80"	🕒 9.221s ago ⌚ 6ms	UP 🟢

node

1 / 1 up 🟢 ⌵

Endpoint	Labels	Last scrape	State
<a href="http://node-exporter:9100/metrics">http://node-exporter:9100/metrics</a>	instance="node-exporter:9100" job="node" ⌵	🕒 15.047s ago ⌚ 15ms	UP 🟢

prometheus

1 / 1 up 🟢 ⌵

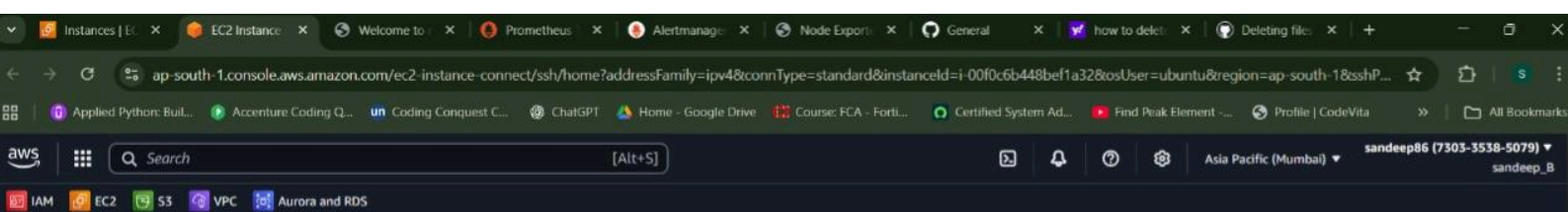
Endpoint	Labels	Last scrape	State
<a href="http://prometheus:9090/metrics">http://prometheus:9090/metrics</a>	instance="prometheus:9090" job="prometheus" ⌵	🕒 11.308s ago ⌚ 8ms	UP 🟢

🌤️ 31°C Haze

🪟 🔍 Search

📄 🗂️ 📺 📅 📧 📶 📶 📶

ENG IN 📶 🔊 🔋 12:44 20-08-2025



```
025-08-20 07:10:19,193 INFO Triggering Ansible playbook to restart NGINX
025-08-20 07:10:22,894 INFO Playbook executed successfully
025-08-20 07:10:22,894 INFO 172.18.0.3 - - [20/Aug/2025 07:10:22] "POST / HTTP/1.1" 200 -
025-08-20 07:17:37,927 ERROR 185.226.198.7 - - [20/Aug/2025 07:17:37] code 400, message Bad HTTP/0.9 request type ('\x16\x03\x01\x00\x9d\x01\x00\x00\x99\x03\x036yKi0w
EE\x18HXKC)r.\x17\x91\x88\x03\x1b6\x9df\x10s\x05\x02eEo\x00\x00BA\x11A\x07A\x13A')
025-08-20 07:17:37,927 INFO 185.226.198.7 - - [20/Aug/2025 07:17:37] "\x16\x03\x01\x00\x9d\x01\x00\x00\x99\x03\x036yKi0wHEE\x18HXKC)r.\x17\x91\x88\x03\x1b6\x9df\x10s\
05\x02eEo\x00\x00BA\x11A\x07A\x13A\x09A\x14A" HTTPStatus.BAD_REQUEST -
025-08-20 07:17:44,643 ERROR 185.226.198.5 - - [20/Aug/2025 07:17:44] code 400, message Bad request syntax ('SSH-2.0-Go')
025-08-20 07:17:44,644 INFO 185.226.198.5 - - [20/Aug/2025 07:17:44] "SSH-2.0-Go" HTTPStatus.BAD_REQUEST -
025-08-20 07:30:19,196 INFO Received alert: {'receiver': 'selfheal-webhook', 'status': 'resolved', 'alerts': [{'status': 'resolved', 'labels': {'alertname': 'NginxDow
n', 'instance': 'http://nginx:80', 'job': 'nginx-uptime', 'severity': 'critical'}, 'annotations': {'description': 'NGINX instance is not responding', 'summary': 'NGINX
is down'}, 'startsAt': '2025-08-20T07:14:49.188Z', 'endsAt': '2025-08-20T07:26:49.188Z', 'generatorURL': 'http://4149fc35b48b:9090/graph?g0.expr=probe_success%7Bjob%3
%22nginx-uptime%22%7D+%3D%3D+0%g0.tab=1', 'fingerprint': '425d74fa4e5775bd'}], 'groupLabels': {}, 'commonLabels': {'alertname': 'NginxDow
n', 'instance': 'http://nginx:80', 'job': 'nginx-uptime', 'severity': 'critical'}, 'commonAnnotations': {'description': 'NGINX instance is not responding', 'summary': 'NGINX is down'}, 'externalUR
l': 'http://d50eb2df6d73:9093', 'version': '4', 'groupKey': '{}:{}'.truncatedAlerts': 0}
025-08-20 07:30:19,197 INFO 172.18.0.3 - - [20/Aug/2025 07:30:19] "POST / HTTP/1.1" 200 -
025-08-20 07:31:19,192 INFO Received alert: {'receiver': 'selfheal-webhook', 'status': 'firing', 'alerts': [{'status': 'firing', 'labels': {'alertname': 'NginxDow
n', 'instance': 'http://nginx:80', 'job': 'nginx-uptime', 'severity': 'critical'}, 'annotations': {'description': 'NGINX instance is not responding', 'summary': 'NGINX is
down'}, 'startsAt': '2025-08-20T07:30:49.188Z', 'endsAt': '0001-01-01T00:00:00Z', 'generatorURL': 'http://4149fc35b48b:9090/graph?g0.expr=probe_success%7Bjob%3D%22ngin
~uptime%22%7D+%3D%3D+0%g0.tab=1', 'fingerprint': '425d74fa4e5775bd'}], 'groupLabels': {}, 'commonLabels': {'alertname': 'NginxDow
n', 'instance': 'http://nginx:80', 'j
b': 'nginx-uptime', 'severity': 'critical'}, 'commonAnnotations': {'description': 'NGINX instance is not responding', 'summary': 'NGINX is down'}, 'externalURL': 'htt
p://d50eb2df6d73:9093', 'version': '4', 'groupKey': '{}:{}'.truncatedAlerts': 0}
025-08-20 07:31:19,192 INFO Triggering Ansible playbook to restart NGINX
025-08-20 07:31:22,358 INFO Playbook executed successfully
025-08-20 07:31:22,359 INFO 172.18.0.3 - - [20/Aug/2025 07:31:22] "POST / HTTP/1.1" 200 -
```

i-00f0c6b448bef1a32 (selfinfra)

PublicIPs: 35.154.196.70 PrivateIPs: 172.31.36.76

Filter

Group

Receiver: All



Silenced



Inhibited



Muted



Custom matcher, e.g. `env="production"`

+ Expand all groups

No alert groups found

Self-healing on AWS | Instances | EC2 | ap- | EC2 Instance Conn... | Prometheus Time S... | Alertmanager | Node Exporter | Welcome to nginx

← → ↺ Not secure 15.207.87.150:9090/rules ☆ | S |

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Prometheus Query Alerts Status > Rule health

Filter by rule health	Filter by rule name or labels
selfheal /etc/prometheus/alert.rules.yml	
last run 14.071s ago took 1ms every 1m	
🔔 NginxDn	14.208s ago 0ms OK
🔔 HighCPU	14.208s ago 0ms OK

← → ↻ ⚠ Not secure 35.154.196.70:9090/alerts ☆ | S | ⋮

Applied Python: Buil... Accenture Coding Q... un Coding Conquest C... ChatGPT Home - Google Drive Course: FCA - Forti... Certified System Ad... Find Peak Element ~... Profile | CodeVita >> | All Bookmarks

Prometheus 🔍 Query 🔔 Alerts 📄 Status ▾ 🌙 ⚙️ 📖

🔍 Filter by rule group state 🔍 Filter by rule name or labels

nginx-alerts /etc/prometheus/alertRules.yml **FIRING (1)**

NginxDown **FIRING (1)** ▾



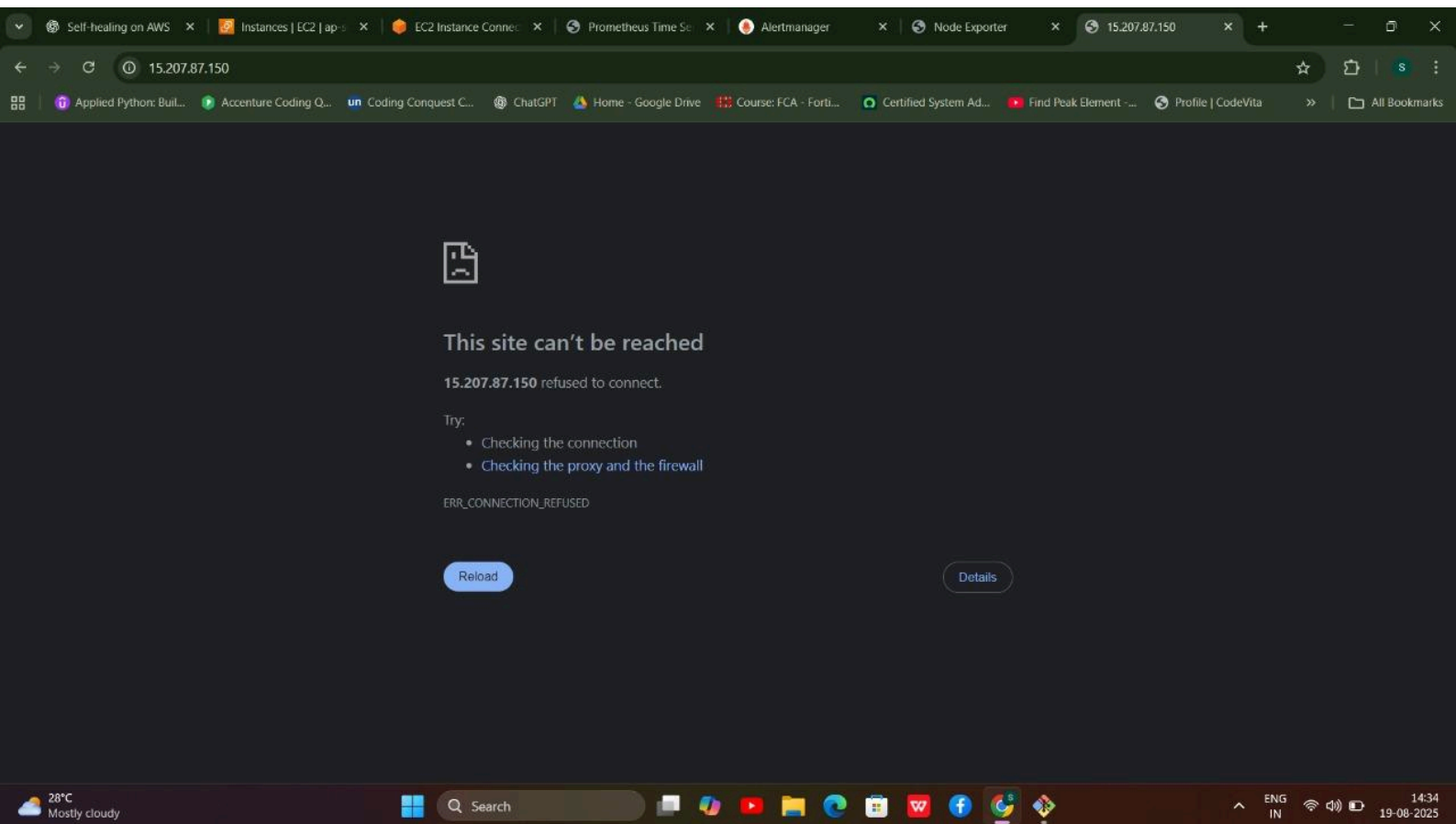
Self-healing on AWS x Instances [ EC2 ] ap... x EC2 Instance Conne... x Prometheus Time S... x Alertmanager x Node Exporter x 15.207.87.150 x +

Not secure 15.207.87.150:9090/alerts ☆ | s |

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Prometheus 🔍 Query 🔔 Alerts 📅 Status ▾ ⚙️ 💬 1 ⚙️ 📖

Filter by rule group state ▾		Filter by rule name or labels 🔍	
selfheal /etc/prometheus/alert.rules.yml		FIRING (1) INACTIVE (1)	
NginxDn		FIRING (1)	▾
HighCPU			▾



New Silence

Filter Group Receiver: All ☐ Silenced ☐ Inhibited ☐ Muted

+ Silence

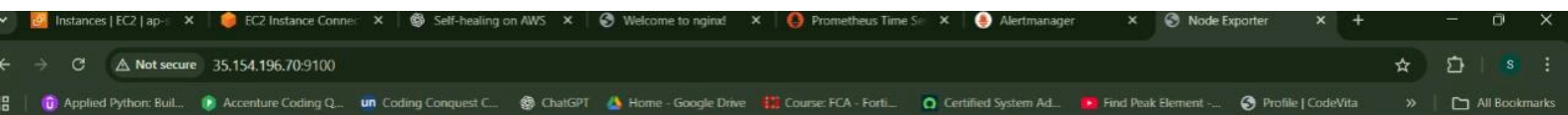
Custom matcher, e.g. `env="production"`

Expand all groups

selfheal-webhook Not grouped 1 alert

2025-08-20T05:28:49.188Z + Info Source Silence Link

alertname="NginxDown" + instance="http://nginx80" + job="nginx-uptime" + severity="critical" +



# Node Exporter

## Prometheus Node Exporter

Version: (version=1.9.1, branch=HEAD, revision=f2ec547b49af53815038a50265aa2adcd1275959)

- [Metrics](#)

Download a detailed report of resource usage (pprof format, from the Go runtime):

- [heap usage \(memory\)](#)
- [CPU usage \(60 second profile\)](#)

To visualize and share profiles you can upload to [pprof.me](#)

