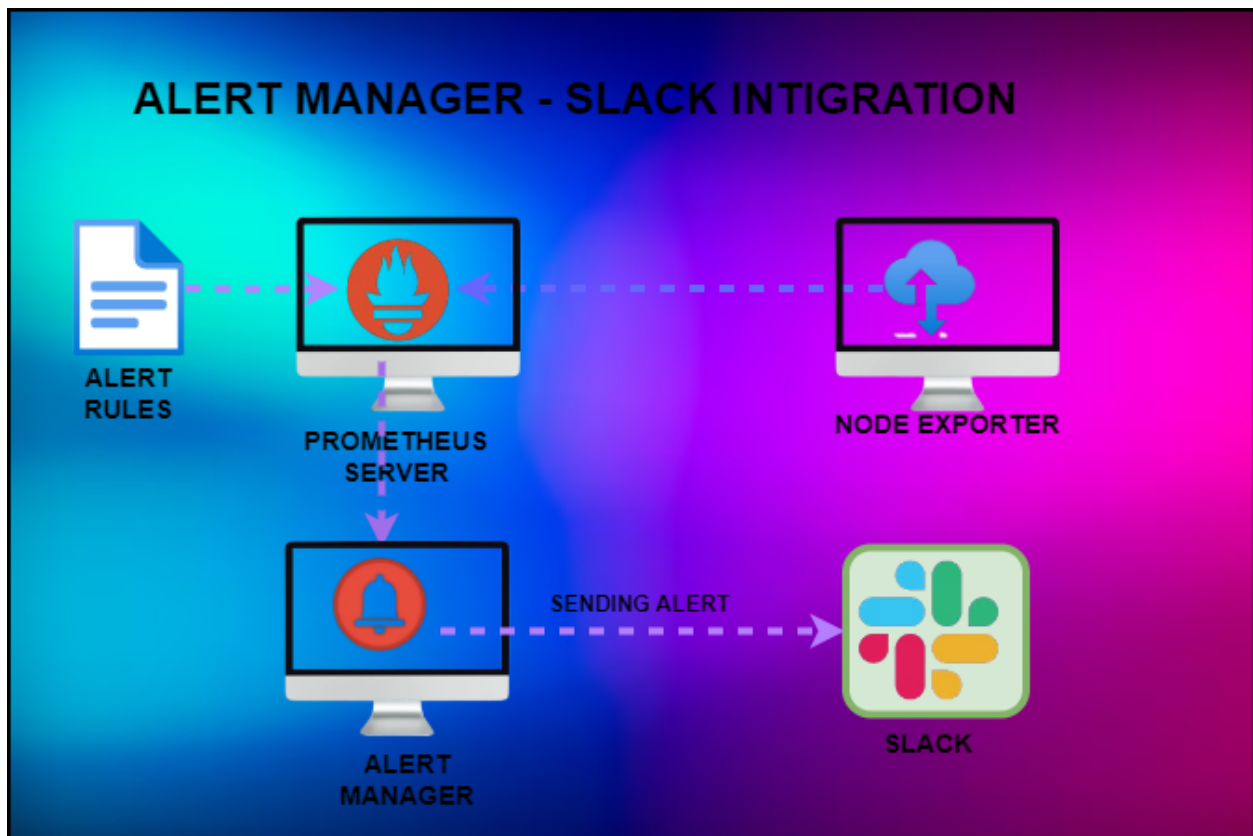


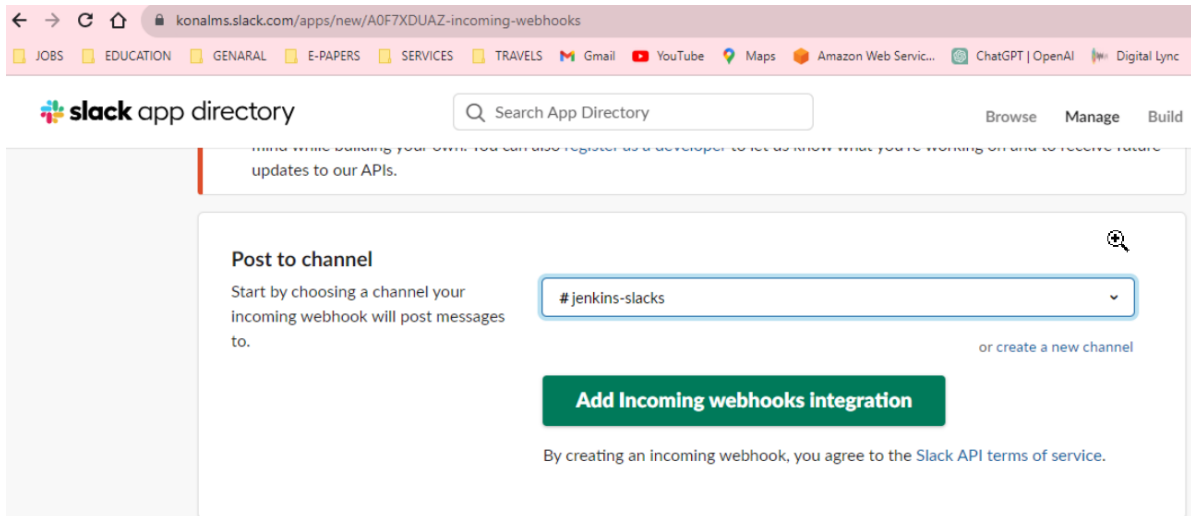


# User Stories 8 : Integrate with Slack - Alert Manager



## Webhook integration in slack:

- **Webhook:** Incoming-webhook
  - Select channel
  - Add webhook integration
  - Copy webhook url
  -



← → ↻ 🏠 konalms.slack.com/apps/new/A0F7XDUAZ-incoming-webhooks

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**slack** app directory  Browse Manage Build

While building your own tool, you can also register as a developer to let us know that you're working on one and to receive future updates to our APIs.

**Post to channel**

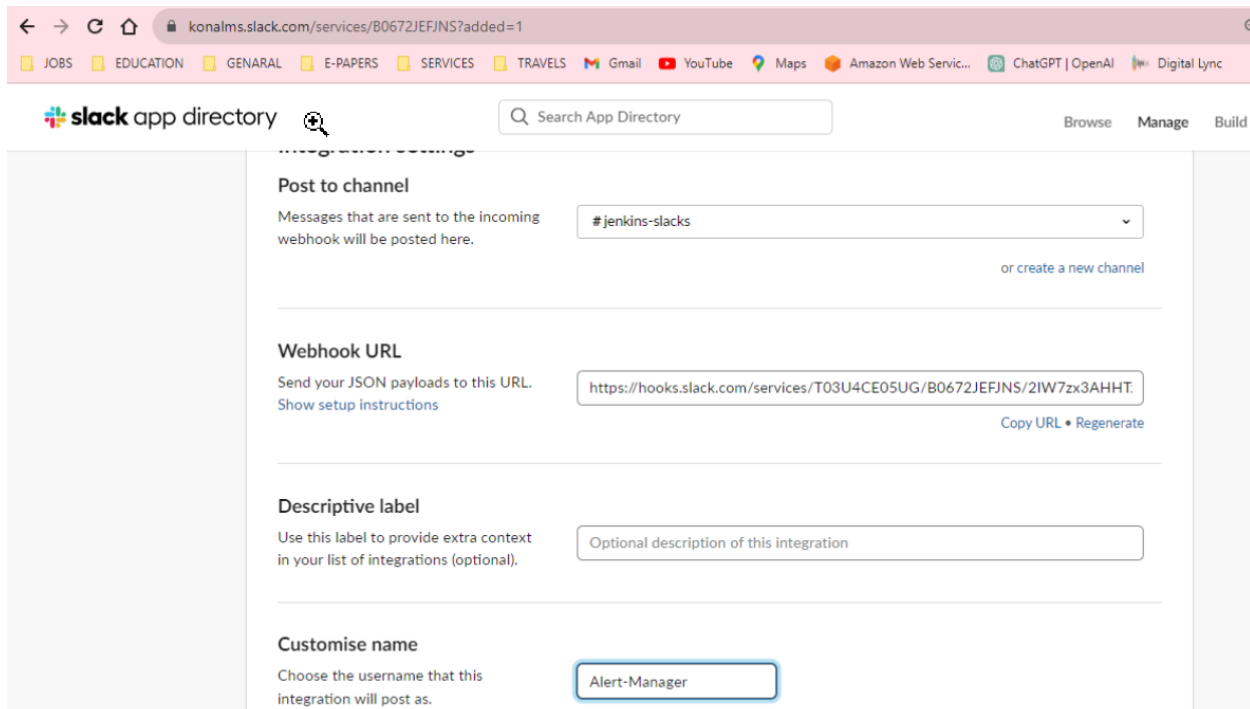
Start by choosing a channel your incoming webhook will post messages to.

#jenkins-slacks

or create a new channel

**Add Incoming webhooks integration**

By creating an incoming webhook, you agree to the Slack API terms of service.



← → ↻ 🏠 konalms.slack.com/services/B0672JEFJNS?added=1

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**slack** app directory  Browse Manage Build

**Post to channel**

Messages that are sent to the incoming webhook will be posted here.

#jenkins-slacks

or create a new channel

**Webhook URL**

Send your JSON payloads to this URL.

Show setup instructions

https://hooks.slack.com/services/T03U4CE05UG/B0672JEFJNS/2IW7zx3AHHT

Copy URL • Regenerate

**Descriptive label**

Use this label to provide extra context in your list of integrations (optional).

Optional description of this integration

**Customise name**

Choose the username that this integration will post as.

Alert-Manager

## Config alertmanager to get slack notification:

- Login to alertmanager server
- Edit alertmanager.yml
- Configure receiver details to get slack notification

- `cd /usr/local/bin/alertmanager`
- `vi alertmanager.yml`

```
global:
  resolve_timeout: 1m

route:
  group_by: ['alertname']
  group_wait: 10s
  group_interval: 10s
  repeat_interval: 1m
  receiver: 'slack-notifications'
receivers:
- name: 'slack-notifications'
  slack_configs:
  - api_url: "put your slack webhook api here"
    channel: '#slack channel name here'
    send_resolved: true

icon_url: https://avatars3.githubusercontent.com/u/3380462
title: |-
  [{{ .Status | toUpper }}{{ if eq .Status "firing" }}:{{ . /
  {{- if gt (len .CommonLabels) (len .GroupLabels) -}}
  {{ " " }}(
  {{- with .CommonLabels.Remove .GroupLabels.Names }}
    {{- range $index, $label := .SortedPairs -}}
      {{ if $index }}, {{ end }}
      {{- $label.Name }}="{{ $label.Value -}}"
    {{- end }}
  {{- end -}}
  )
  {{- end }}
text: >-
  {{ with index .Alerts 0 -}}
    :chart_with_upwards_trend: *<{{ .GeneratorURL }}|Graph>
```

```

    {{- if .Annotations.runbook }}      :notebook: *<{{ .Annotations.runbook }}
  {{ end }}

  *Alert details*:

  {{ range .Alerts -}}
    *Alert:* {{ .Annotations.title }}{{ if .Labels.severity }}
    *Description:* {{ .Annotations.description }}
    *Details:*
      {{ range .Labels.SortedPairs }} • *{{ .Name }}*: *`{{ .Value }}`
    {{ end }}
  {{ end }}

inhibit_rules:
- source_match:
  severity: 'critical'
  target_match:
  severity: 'warning'
  equal: ['alertname', 'dev', 'instance']

```

sudo systemctl daemon-reload

sudo service alertmanager restart

sudo service alertmanager status

**NOTE: GREEN coloured code for getting normal notification**

```

ubuntu@ip-172-31-92-202: /usr/local/bin/alertmanager
global:
  resolve_timeout: 1m

route:
  group_by: ['alertname']
  group_wait: 10s
  group_interval: 10s
  repeat_interval: 1m
  receiver: 'slack-notifications'
receivers:
- name: 'slack-notifications'
  slack_configs:
  - api_url: 'https://hooks.slack.com/services/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'
    channel: '#jenkins-slacks'
    send_resolved: true

inhibit_rules:
- source_match:
  severity: 'critical'
  target_match:
  severity: 'warning'
  equal: ['alertname', 'dev', 'instance']

```

The screenshot shows a Slack interface with a channel named '#jenkins-slacks'. The channel contains several messages from the 'Alertmanager' app. The messages show a sequence of alerts: a 'critical' alert for 'InstanceDown' on 'localhost:9100' for 'node\_exporter', followed by several 'good' alerts for 'InstanceUp' for the same job and instance. The interface includes a sidebar with navigation options like Home, DMs, Activity, and a list of channels and direct messages. The main content area shows the chat history with the alert messages.

**NOTE: BLUE + GREEN** coloured code to get detailed notification



# Real time Testing with node-exporter service to get slack notification

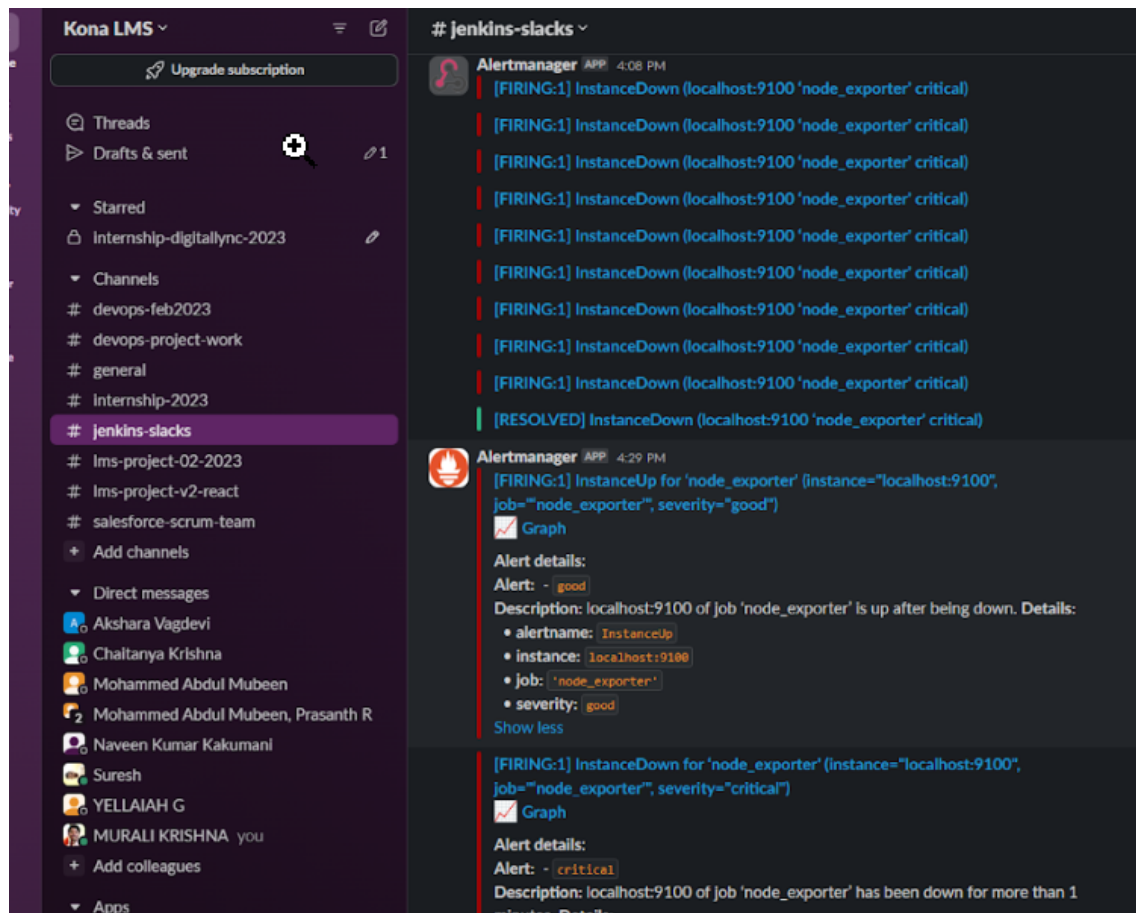
- Down node-exporter server
- Goto your node-exporter server
  - sudo service node-exporter stop
  - sudo service node-exporter status
  -

```
ubuntu@ip-172-31-92-202: /usr/local/bin/alertmanager$ sudo ss -ntpl
State      Recv-Q    Send-Q    Local Address:Port    Peer Address:Port    Process
LISTEN     0          4096      127.0.0.1:53          0.0.0.0:*             users:("systemd-resolve",pid=414,fd=13))
LISTEN     0          128       0.0.0.0:22           0.0.0.0:*             users:("sshd",pid=634,fd=3))
LISTEN     0          128       [::]:22              [::]:*                users:("sshd",pid=634,fd=4))
LISTEN     0          4096      *:9090               *:.*                  users:("prometheus",pid=14195,fd=7))
LISTEN     0          4096      *:9093               *:.*                  users:("alertmanager",pid=14302,fd=8))
LISTEN     0          4096      *:9094               *:.*                  users:("alertmanager",pid=14302,fd=3))

ubuntu@ip-172-31-92-202: /usr/local/bin/alertmanager$ sudo service node-exporter status
● node-exporter.service - PrometheusNode Exporter Service
   Loaded: loaded (/etc/systemd/system/node-exporter.service; disabled; vendor preset: enabled)
   Active: inactive (dead)

Nov 25 10:46:30 ip-172-31-92-202 node_exporter[14210]: ts=2023-11-25T10:46:30.813Z caller=node_exporter.go:117 level=info collector=us
Nov 25 10:46:30 ip-172-31-92-202 node_exporter[14210]: ts=2023-11-25T10:46:30.813Z caller=node_exporter.go:117 level=info collector=us
Nov 25 10:46:30 ip-172-31-92-202 node_exporter[14210]: ts=2023-11-25T10:46:30.813Z caller=node_exporter.go:117 level=info collector=us
Nov 25 10:46:30 ip-172-31-92-202 node_exporter[14210]: ts=2023-11-25T10:46:30.813Z caller=node_exporter.go:117 level=info collector=us
Nov 25 10:46:30 ip-172-31-92-202 node_exporter[14210]: ts=2023-11-25T10:46:30.814Z caller=tls_config.go:274 level=info msg="Listening"
Nov 25 10:46:30 ip-172-31-92-202 node_exporter[14210]: ts=2023-11-25T10:46:30.814Z caller=tls_config.go:277 level=info msg="TLS is disabled"
Nov 25 10:58:05 ip-172-31-92-202 systemd[1]: Stopping PrometheusNode Exporter Service...
Nov 25 10:58:05 ip-172-31-92-202 systemd[1]: node-exporter.service: Succeeded.
Nov 25 10:58:05 ip-172-31-92-202 systemd[1]: Stopped PrometheusNode Exporter Service.
```

- Goto goto your slack
  - Check your configured channel
    - You will see alert: node-exporter down
    -



- Goto your node-exporter server
  - `sudo service node-exporter start`
  - `sudo service node-exporter status`
  -

```

ubuntu@ip-172-31-92-202: /usr/local/bin/alertmanager
ubuntu@ip-172-31-92-202:/usr/local/bin/alertmanager$ sudo service node-exporter status
● node-exporter.service - PrometheusNode Exporter Service
   Loaded: loaded (/etc/systemd/system/node-exporter.service; disabled; vendor preset: enabled)
   Active: active (running) since Sat 2023-11-25 11:02:12 UTC; 14s ago
     Main PID: 14330 (node_exporter)
        Tasks: 4 (limit: 4672)
       Memory: 4.6M
      CGroup: /system.slice/node-exporter.service
              └─14330 /usr/local/bin/node-exporter/node_exporter

Nov 25 11:02:12 ip-172-31-92-202 node_exporter[14330]: ts=2023-11-25T11:02:12.790Z caller=node_exporter.go:117

```

- Goto your slack
  - Check your configured channel
    - You will see alert: node-exporter up



■ Issue RESOLVED

The screenshot displays a Slack workspace named 'Kona LMS'. The left sidebar lists several channels, including '#jenkins-slacks', which is currently selected. The main panel shows the history of messages in this channel. Three alert messages are visible:

- Message 1:** A critical alert titled '[FIRING:1] InstanceDown for 'node\_exporter' (instance="localhost:9100", job="node\_exporter", severity="critical")'. The description states that 'localhost:9100' has been down for more than 1 minute. Details include alertname: InstanceDown and instance: localhost:9100.
- Message 2:** A good alert titled '[FIRING:1] InstanceUp for 'node\_exporter' (instance="localhost:9100", job="node\_exporter", severity="good")'. The description states that 'localhost:9100' is up after being down. Details include alertname: InstanceUp, instance: localhost:9100, job: 'node\_exporter', and severity: good.
- Message 3:** A resolved critical alert titled '[RESOLVED] InstanceDown for 'node\_exporter' (instance="localhost:9100", job="node\_exporter", severity="critical")'. The description states that 'localhost:9100' has been down for more than 1 minute. Details include alertname: InstanceDown, instance: localhost:9100, job: 'node\_exporter', and severity: critical.

The bottom of the interface shows a text input field with the placeholder 'Message #jenkins-slacks'.