



# Relabeling

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Inuits

State	Labels
UP	<p>ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue"="mi" elit="duis" ex="malesuada" faucibus="eget" finibus="quam"="sem" fusce="vulputate" hac="habitasse" hendrerit="purus" himena="suspendisse" id="ornare" instance="127.0.0.1:9090" Integer="imperdiet" interdum="sit" ipsum="dolor" lacinia="ante" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" magna="diam" malesuada="fusce" metus="sed" molestie="sit" mollis="accumsan" nam="vestibulum" nec="risus" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" placerat="vita" platea="dictumst" posuere="blandit" pretium="justo" quisque="dapibus" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"</p>
UP	<p>ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" at="nisi" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="nostrum" dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue" eget="mi" elit="duis" ex="malesuada" faucibus="eget" finibus="quam" fringilla="sem" fusce="vulputate" hac="habitasse" hendrerit="purus" himena="suspendisse" id="ornare" instance="127.0.0.3:9090" Integer="imperdiet" interdum="sit" ipsum="dolor" lacinia="ante" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" magna="diam" malesuada="fusce" metus="sed" molestie="sit" mollis="accumsan" nam="vestibulum" nec="risus" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" placerat="vita" platea="dictumst" posuere="blandit" pretium="justo" quisque="dapibus" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"</p>
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# Labels

A metric is identified by:

- its name
- key/value pairs (labels)

```
haproxy_http_responses_total{  
  backend="circuit",  
  code="1xx",  
  env="acc",  
  instance="proxacc01",  
  job="haproxy",  
}
```

# Metric names are labels

```
{  
  __name__="haproxy_http_responses_total",  
  backend="circuit",  
  code="1xx",  
  env="acc",  
  instance="proxacc01",  
  job="haproxy",  
}
```

**Because they are labels we can get an idea of the cardinality:**

```
topk (
  10,
  count({job="prometheus"}) by (___name___)
)
```

# Prometheus adds labels at scrape time

```
haproxy_http_responses_total{
  backend="circuit",
  code="1xx",
  env="acc",
  instance="proxacc01",
  job="haproxy",
}
```

haproxy (1/1 up) [show less](#)

Endpoint	State	Labels
<a href="http://172.21.1.26:45008/metrics">http://172.21.1.26:45008/metrics</a>	UP	Instance="proxacc01"

# Where is the concept of "label" used?

- Before scraping targets ; prometheus uses some labels as configuration
- When scraping targets, prometheus will fetch labels of metrics and add its own
- After scraping, before registering metrics, labels can be altered
- With recording rules

## But also ...

- On the federation endpoint Prometheus can add labels
- When sending alerts we can alter alerts labels

# There are "hidden" labels

Labels that start with `__` are for internal use.

Some are added by Service Discovery (`__meta`), and `__tmp` prefix can be used by users.

The screenshot shows a Prometheus UI interface with a tooltip overlay. The tooltip, titled "Before relabeling:", lists the following labels: `__address__="172.21.1.26:45008"`, `__meta_filepath="/etc/prometheus/prometheus.d/haproxy_proxacc01.yml"`, `__metrics_path__="/metrics"`, `__scheme__="http"`, `instance="proxacc01"`, and `job="haproxy"`. The background shows a table of Prometheus targets with columns for "Labels" and "Last Scrap". One target is visible with labels `instance="proxacc01"` and a status of "UP".

Labels	Last Scrap
<code>instance="proxacc01"</code>	1.34s ago

# Example: kube pod

```
__meta_kubernetes_namespace  
__meta_kubernetes_pod_name  
__meta_kubernetes_pod_ip  
__meta_kubernetes_pod_label_labelname  
__meta_kubernetes_pod_annotation_annotationname  
__meta_kubernetes_pod_container_name  
__meta_kubernetes_pod_container_port_name  
__meta_kubernetes_pod_container_port_number
```

.. and more

Source: Prometheus documentation

# Relabeling

Relabeling means mutating labels. Adding, removing, changing them.

There is one golden rule: *After relabeling, metrics must be unique.*

# Regex

- Prometheus uses RE2 regular expression
- They are anchored: `bar` regex will not match `foobar`
- Unanchor with `.*bar.*`
- You can use capture groups: `(.*)bar` used against `foobar` will create a variable `$1` whose value is `foo`

# Regex examples

- `prom|alert` will match `prom` and `alert`
- `201[78]` will match `2017` and `2018`
- `promcon(20.+)` will match `promcon2020` ,  
`promcon20xx` ,... and for  
`promcon2018` , `$1` will be `2018`

State	Labels
UP	ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="mi" dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue" ex="malesuada" faucibus="eget" finibus="quam" fusce="vulputate" hac="habitasse" hendrerit="purus" himenaeus="suspendisse" id="ornare" instance="127.0.0.1:9090" Integer="imperdiet" internum="sit" ipsum="dolor" lacinia="ante" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" magna="diam" malesuada="fusce" metus="sed" molestie="sit" mollis="accumsan" nam="vestibulum" nec="risus" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" placerat="sagittis" platea="dictumst" posuere="blandit" pretium="justo" quisque="dapibus" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"
UP	ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="mi" dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue" ex="malesuada" faucibus="eget" finibus="quam" fusce="vulputate" hac="habitasse" hendrerit="purus" himenaeus="suspendisse" id="ornare" instance="127.0.0.1:9090" Integer="imperdiet" internum="sit" ipsum="dolor" lacinia="ante" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" magna="diam" malesuada="fusce" metus="sed" molestie="sit" mollis="accumsan" nam="vestibulum" nec="risus" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" placerat="sagittis" platea="dictumst" posuere="blandit" pretium="justo" quisque="dapibus" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"
UP	ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="mi" dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue" ex="malesuada" faucibus="eget" finibus="quam" fusce="vulputate" hac="habitasse" hendrerit="purus" himenaeus="suspendisse" id="ornare" instance="127.0.0.1:9090" Integer="imperdiet" internum="sit" ipsum="dolor" lacinia="ante" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" magna="diam" malesuada="fusce" metus="sed" molestie="sit" mollis="accumsan" nam="vestibulum" nec="risus" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" placerat="sagittis" platea="dictumst" posuere="blandit" pretium="justo" quisque="dapibus" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"

# Relabeling metrics at scrape time

```
scrape_configs:  
- job_name: sql  
  targets: [172.21.132.39:41212]  
  metric_relabel_configs: []
```

# Renaming metrics

```
scrape_configs:  
- job_name: sql  
  targets: [172.21.132.39:41212]  
  metric_relabel_configs:  
  - source_labels: ['prometheus_metric_name']  
    target_label: '__name__'  
    regex: '(.*)_'  
    replacement: '${1}'  
  - regex: prometheus_metric_name  
    action: labeldrop
```

# Turns

```
query_result_dm_os_performance_counters{  
  counter_instance="ex01",  
  counter_name="log file(s) size (kb)",  
  prometheus_metric_name="sqlserver_databases",  
}
```

# into

```
sqlserver_databases{  
  counter_instance="ex01",  
  counter_name="log file(s) size (kb)",  
}
```

# Extracting labels

- target\_label: 'partner'  
replacement: '\$1'  
source\_labels: ['\_\_name\_\_', 'backend']  
regex: 'haproxy\_+; (.+):(.+):(.+):(.+)'
- target\_label: 'partner\_env'  
replacement: '\$2'  
source\_labels: ['\_\_name\_\_', 'backend']  
regex: 'haproxy\_+; (.+):(.+):(.+):(.+)'

# Extracting labels

- target\_label: 'partner'  
replacement: '\$1'  
source\_labels: ['\_\_name\_\_', 'backend']  
regex: 'haproxy\_.+; (.+):(.+):(.+):(.+)'
- target\_label: 'partner\_env'  
replacement: '\$2'  
source\_labels: ['\_\_name\_\_', 'backend']  
regex: 'haproxy\_.+; (.+):(.+):(.+):(.+)'

# Extracting labels

- target\_label: 'partner'  
replacement: '\$1'  
source\_labels: ['\_\_name\_\_', '**backend**']  
regex: 'haproxy\_+; (.+):(.+):(.+):(.+)'
- target\_label: 'partner\_env'  
replacement: '\$2'  
source\_labels: ['\_\_name\_\_', 'backend']  
regex: 'haproxy\_+; (.+):(.+):(.+):(.+)'

# Turns

```
haproxy_backend_bytes_in_total{  
  backend="example:acc:services:medium",  
  instance="proxprd52",  
  job="haproxy"  
}
```

# into

```
haproxy_backend_bytes_in_total{  
  backend="example:acc:services:medium",  
  instance="proxprd52",  
  job="haproxy",  
  partner="example",  
  partner_env="acc",  
}
```

# ~~Be GDPR compliant~~ Drop metrics

- source\_labels: ['\_\_name\_\_']  
regex: jira\_user\_login\_count  
**action: drop**
- source\_labels: ['\_\_name\_\_']  
regex: jira\_dashboard\_view\_count  
**action: drop**
- source\_labels: ['\_\_name\_\_']  
regex: jira\_issue\_update\_count  
**action: drop**

scrape\_samples\_scraped

-

scrape\_samples\_post\_metric\_relabeling

State	Labels
UP	<p>ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="mi" dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue" ex="malesuada" faucibus="eget" finibus="quam" fusce="vulputate" hac="habitasse" hendrerit="purus" himenaeus="suspendisse" id="ornare" instance="127.0.0.1:9090" integer="imperdiet" ipsum="dolor" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" lacinia="ante" lacus="sed" malesuada="fusce" molestie="sit" mollis="accumsan" nam="vestibulum" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" platea="dictumst" posuere="blandit" pretium="justo" quisque="dap" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"</p>
UP	<p>ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="mi" dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue" ex="malesuada" faucibus="eget" finibus="quam" fusce="vulputate" hac="habitasse" hendrerit="purus" himenaeus="suspendisse" id="ornare" instance="127.0.0.1:9090" integer="imperdiet" ipsum="dolor" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" lacinia="ante" lacus="sed" malesuada="fusce" molestie="sit" mollis="accumsan" nam="vestibulum" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" platea="dictumst" posuere="blandit" pretium="justo" quisque="dap" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"</p>

# Relabeling scrape configuration

# Reusing targets

- Use case: Using the blackbox exporter against a ssl enabled target to check its certificates

# The initial job

```
- job_name: traefik
  file_sd_configs:
  - files:
    - /etc/prometheus/traefik_*.yml
  metrics_path: '/traefik/metrics'
  scheme: https
```

Now we would like to reuse the same file for mutualssl

# The second job

- job\_name: traefik  
file\_sd\_configs:
  - files:
    - /etc/prometheus/traefik\_\*.ymlmetrics\_path: '/traefik/metrics'  
scheme: https
- job: traefik\_blackbox  
files:
  - /etc/prometheus/traefik\_\*.ymlmetrics\_path: '/probe'  
relabel\_configs:
  - source\_labels: [\_\_address\_\_]  
replacement: 'https://\$1/traefik/health'  
target\_label: \_\_param\_target
  - replacement: http\_2xx  
target\_label: \_\_param\_module
  - replacement: '172.21.16.21:9115'  
target\_label: \_\_address\_\_

# Adding a parameter to the scrape configuration

```
- source_labels: [__address__]  
  replacement: 'https://$1/traefik/health'  
  target_label: __param_target
```

*?target=https://{original\_address}/traefik/health* will  
be added upon scrape

# Adding a parameter to the scrape configuration

```
- replacement: http_2xx  
  target_label: __param_module
```

It is equivalent to

```
- job_name: traefik_blackbox  
  params:  
    module: [http_2xx]
```

# Adding a parameter to the scrape configuration

```
- replacement: '172.21.16.21:9115'  
  target_label: __address__
```

will change the scrape address to fixed value  
172.21.16.21:9115

# Result

Initial address before relabelling:

<http://172.31.22.3:9100/probe>

---

After relabelling:

<http://172.21.16.21:9115/probe?>

[module=http\\_2xx&target=https://172.31.22.3:9100/traefik/health](http://172.21.16.21:9115/probe?module=http_2xx&target=https://172.31.22.3:9100/traefik/health)

From the same service discovery source!

# Dropping targets

A unique way to spread the load between multiple prometheus servers

```
relabel_configs:  
- source_labels: [__address__]  
  regex: '.*[02468]:.*'  
  action: drop
```

And on the second server

```
relabel_configs:  
- source_labels: [__address__]  
  regex: '.*[02468]:.*'  
  action: keep
```

0.3:9090/metrics

State

UP

Labels

ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" conubia="nostrum"  
blandit="lorem" class="aptent" consectetur="adipiscing" efficitur="congue" egest="ma  
a" dictum="turpis" dolor="sit" donec="pulvinar" finibus="quam" fringilla="sem"  
="mi" elit="duis" ex="malesuada" faucibus="eget" hendrerit="purus" himenaeos="susp  
illa="sem" fusce="vulputate" hac="habitasse" instance="127.0.0.1:9090" integer="imperdiet"  
="suspendisse" id="ornare" lacus="sed" laoreet="arcu" malesuada="fusce" met="inter  
interdum="sit" ipsum="dolor" lacinia="ante" lacus="sed" laoreet="arcu" malesuada="fusce" met="inter  
ligula="convallis" lorem="ipsum" magna="diam" nam="vestibulum" nec="risus" nibh="in"  
us="sed" molestie="sit" mollis="accumsan" nam="vestibulum" nec="risus" nibh="in" nisi="luctus"  
="nibh" nisi="luctus" pellentesque="risus" per="inceptos" placerat="dap" platea="dictumst"  
vita="platea="dictumst" posuere="blandit" pretium="justo" quisque="dap" sagittis="viverra"  
ibus="sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit"  
us="elit" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"

UP

# Alerts

UP

1.52

# Alerts relabels

```
global:  
  external_labels:  
    prometheus_server: prom01
```

**Adds** `{prometheus_server="prom01"}` to "exporter metrics" (federation, alerts, remote write)

# Relabeling the external labels

```
alerting:  
  alert_relabel_configs:  
    - source_labels: [prometheus_server]  
      target_label: prometheus_server  
      replacement: promdc1
```

# Adding default labels to alerts

```
alerting:  
  alert_relabel_configs:  
    - source_labels: [priority]  
      target_label: priority  
      regex: '()'  
      replacement: P1
```

State	Labels
UP	<p>ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue"="mi" elit="duis" ex="malesuada" faucibus="eget" finibus="quam"="sem" fusce="vulputate" hac="habitasse" hendrerit="purus" himena="suspendisse" id="ornare" instance="127.0.0.1:9090" Integer="imperdiet" interdum="sit" ipsum="dolor" lacinia="ante" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" magna="diam" malesuada="fusce" met="us="sed" molestie="sit" mollis="accumsan" nam="vestibulum" nec="risus"="nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" placerat="vitae" platea="dictumst" posuere="blandit" pretium="justo" quisque="dapibus" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit" torquent="per" tortor="at" urna="scelerisque" ut="sollicitudin" velit="quis" volutpat="morbi"</p>
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# Remote Write

# Select which metrics to keep

```
remote_write:  
- url: http://localhost:8080/prometheus  
write_relabel_configs:  
- source_labels: [__name__]  
  regex: 'job:.*'  
  action: keep
```

State	Labels
UP	ad="litora" adipiscing="elit" aliquam="quis" amet="consectetur" blandit="lorem" class="aptent" consectetur="adipiscing" conubia="mi" dictum="turpis" dolor="sit" donec="pulvinar" efficitur="congue" ex="malesuada" faucibus="eget" finibus="quam" fusce="vulputate" hac="habitasse" hendrerit="purus" himenaeus="suspendisse" id="ornare" instance="127.0.0.1:9090" integer="imperdiet" ipsum="dolor" lacus="sed" laoreet="arcu" ligula="convallis" lorem="ipsum" lacinia="ante" lacus="sed" malesuada="fusce" molestie="sit" mollis="accumsan" nam="vestibulum" nibh="in" nisi="luctus" pellentesque="risus" per="inceptos" platea="dictumst" posuere="blandit" pretium="justo" quisque="dap" sagittis="viverra" sed="eleifend" sit="amet" taciti="sociosqu" tellus="elit" torquent="per" tortor="at" sit="amet" taciti="sociosqu" tellus="elit" volutpat="morbi" urna="scelerisque" ut="sollicitudin"
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# Conclusion

# Final words

- Relabeling is unique to prometheus
- Gives you power over configuration
- Allows filtering/modification of metrics **and** configs
- More than just altering labels: dropping metrics, adding labels, ...

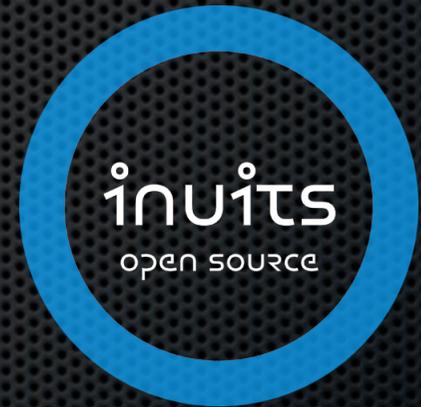
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