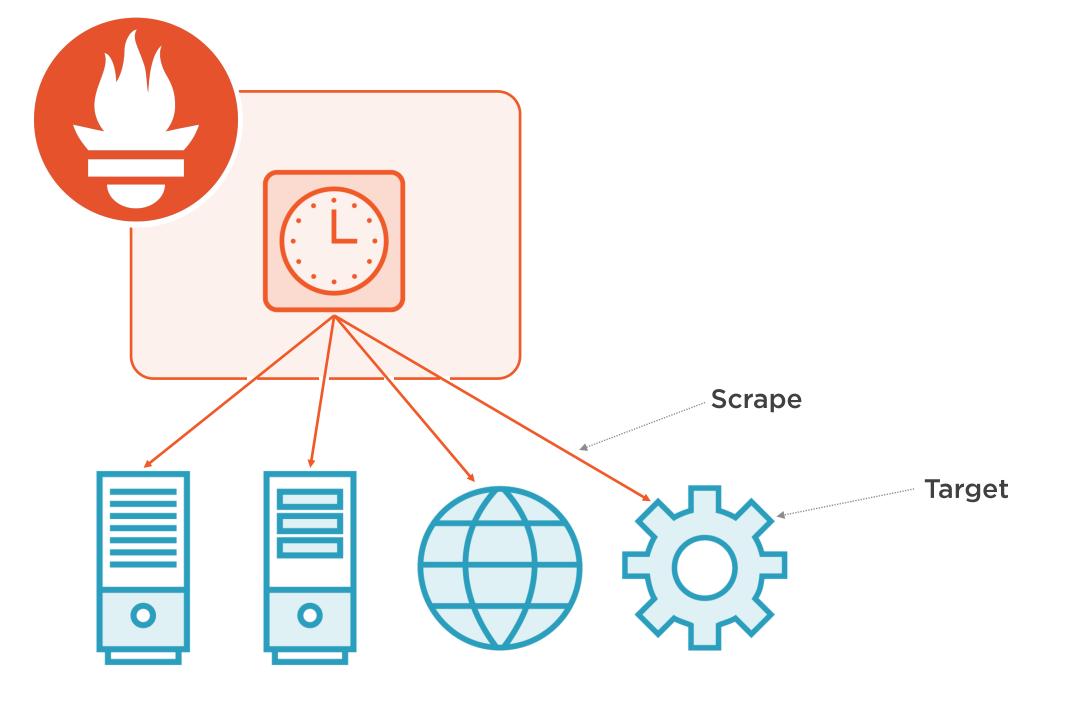
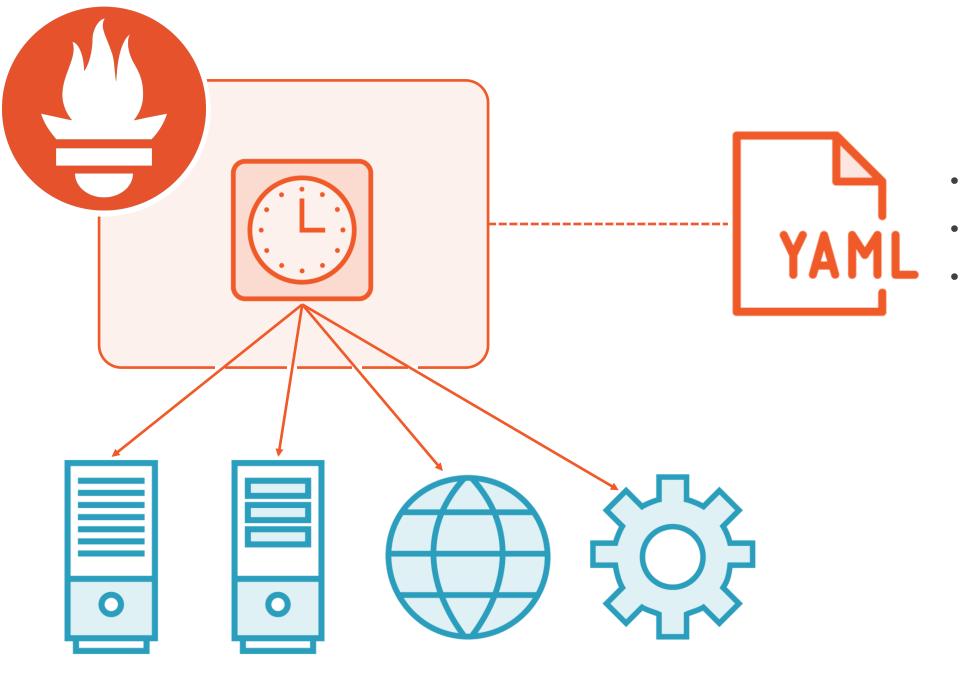
Running and Configuring Prometheus



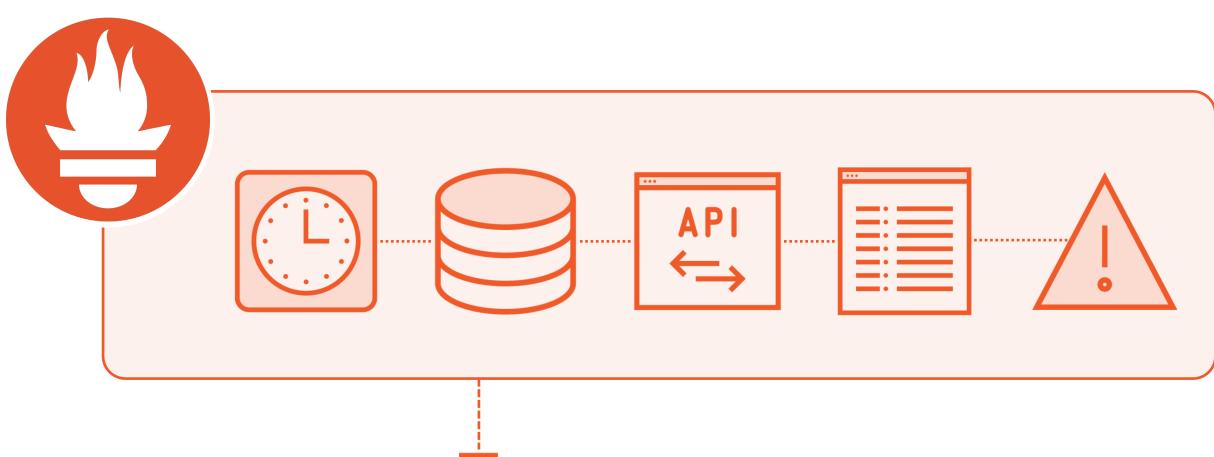
Elton Stoneman CONSULTANT & TRAINER

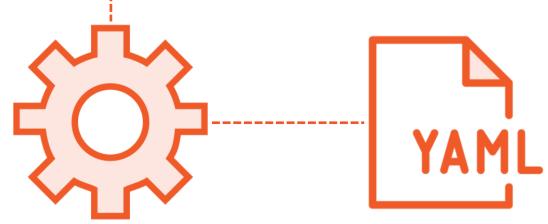
@EltonStoneman | blog.sixeyed.com





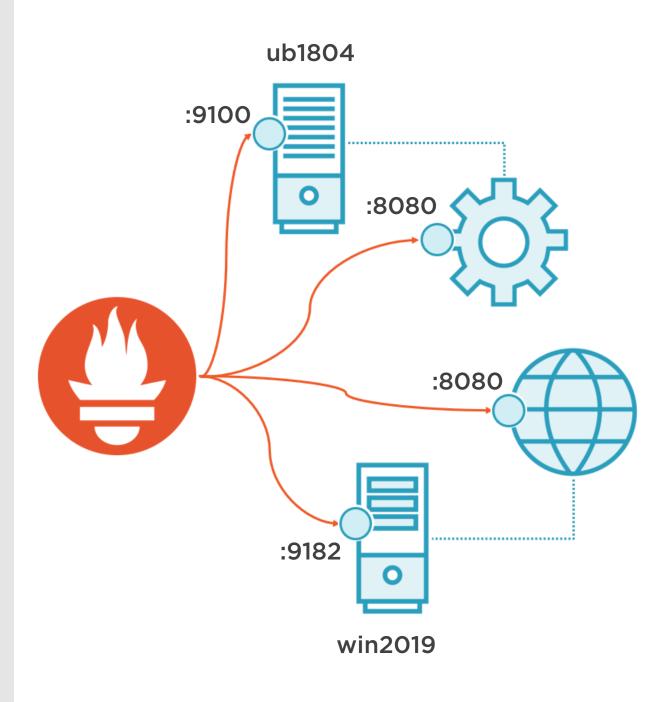
- Targets
- Scrape interval
- Metric updates





```
global:
  scrape_interval: 30s
scrape_configs:
  - job_name: 'linux'
    static_configs:
      - targets: ['ps-prom-ub1804:9100']
```

```
scrape_configs:
  - job_name: 'linux'
    static_configs:
      - targets: ['ub1804:9100']
  - job_name: 'batch'
    static_configs:
      - targets: ['ub1804:8080']
  - job_name: 'windows'
    static_configs:
      - targets: ['win2019:9182']
  - job_name: 'web'
    static_configs:
      - targets: ['win2019:8080']
```

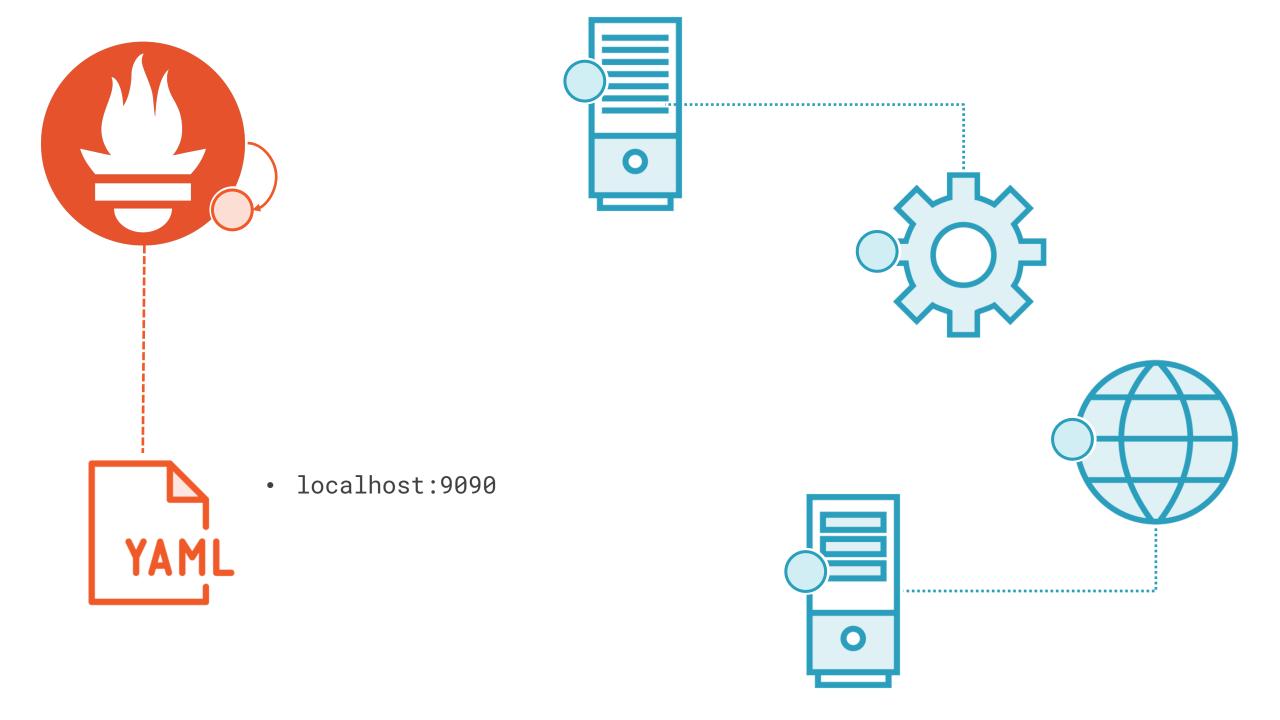


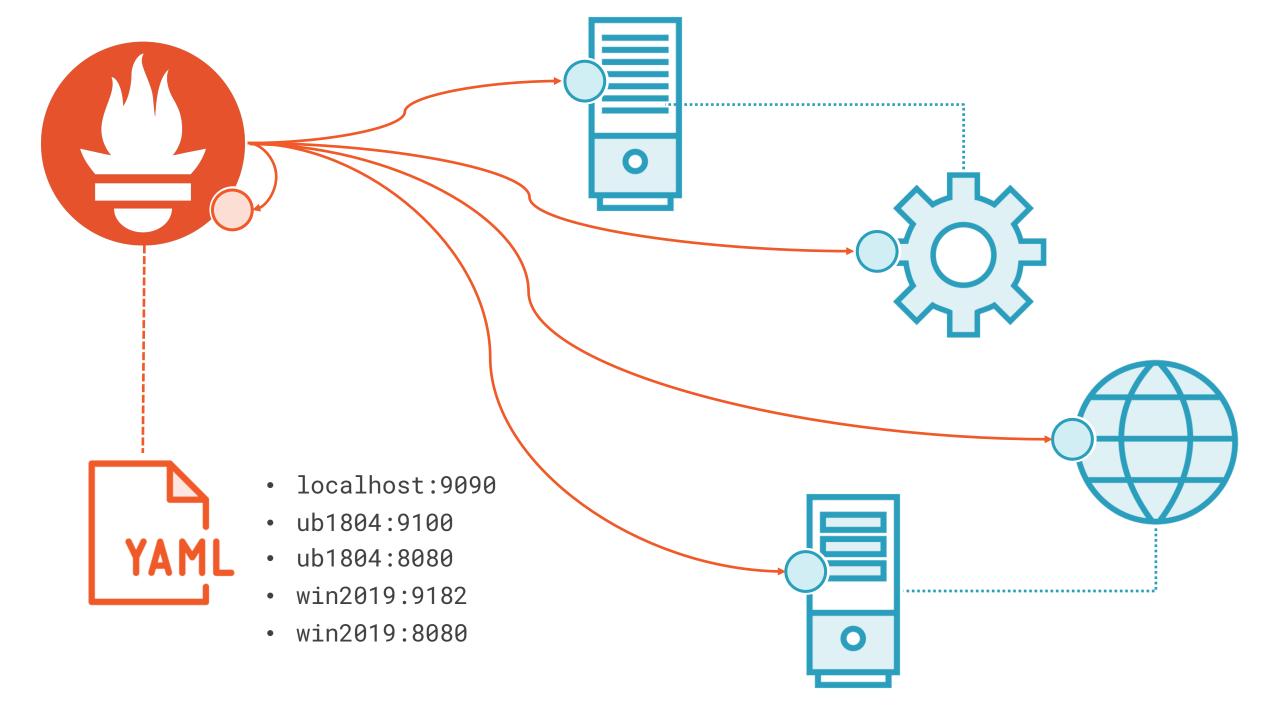
Demo

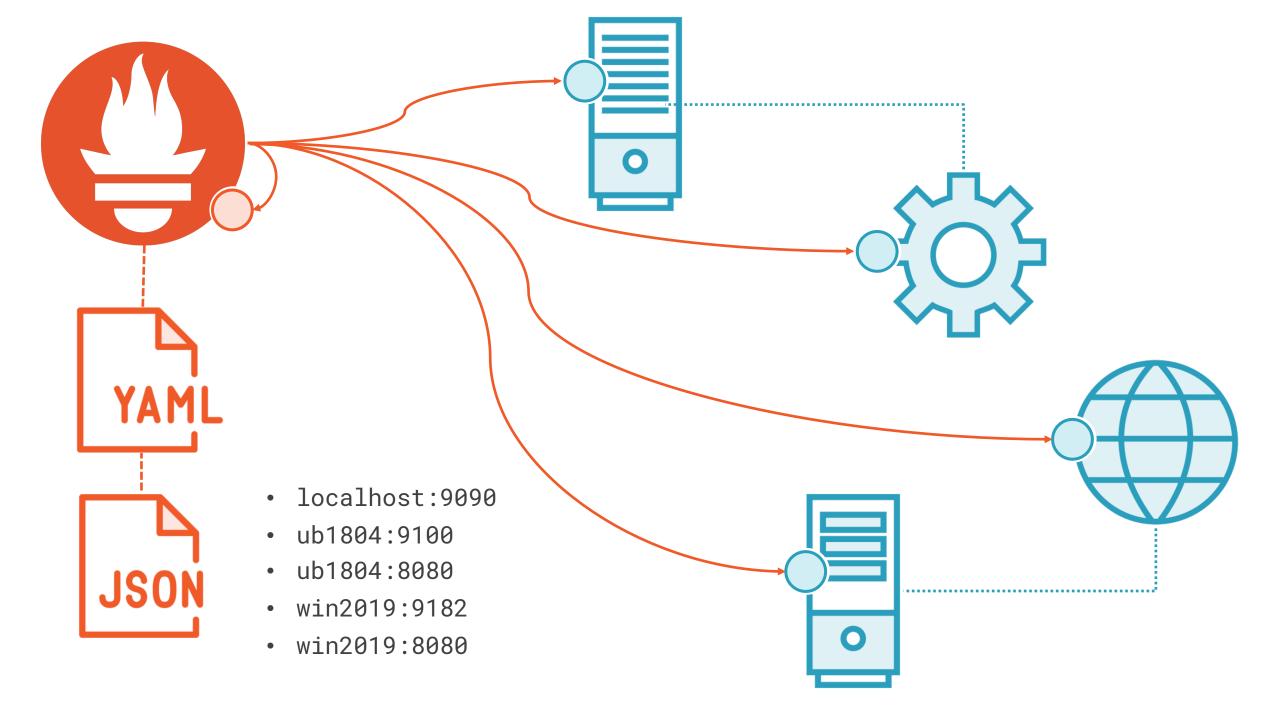


Running Prometheus

- Download options
- Running the server
- Exploring the UI





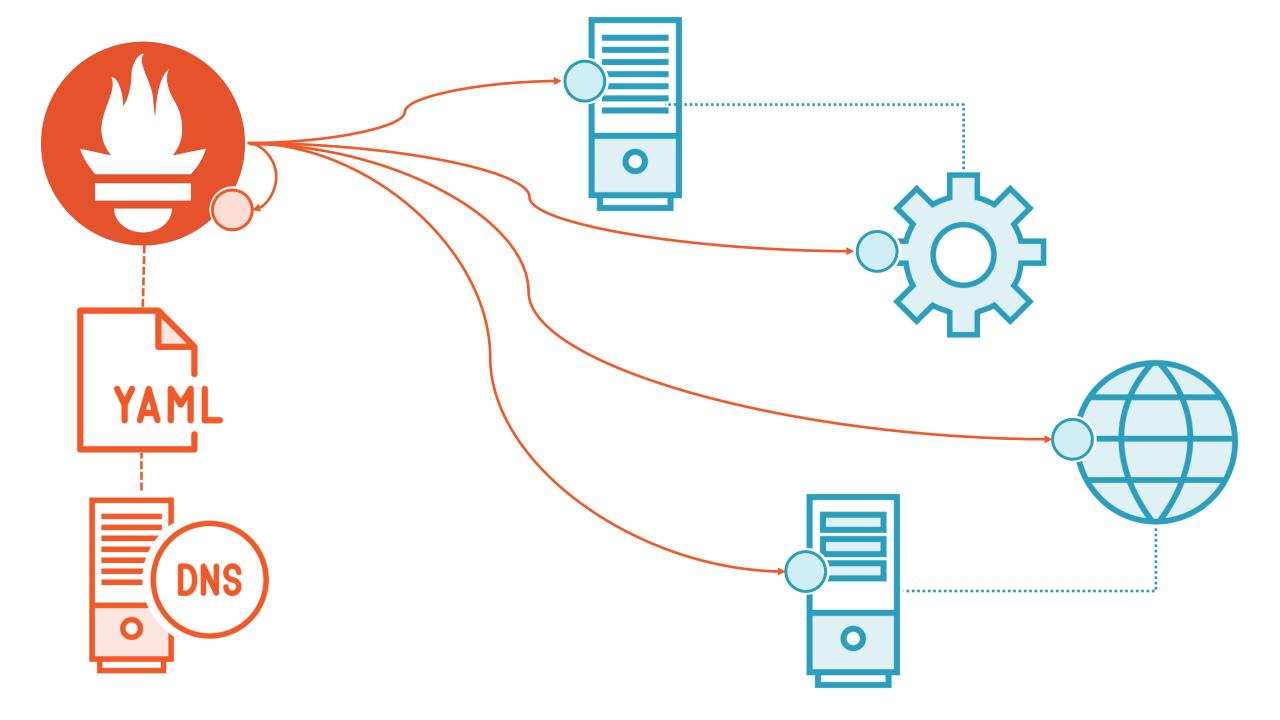


```
file-sd.yml
```

```
global:
  scrape_interval:
                       15s
scrape_configs:
  - job_name: prometheus
    static_configs:
    - targets: [localhost:9090]
  - job_name: web-file
    file_sd_configs:
      - files:
         - 'web.json'
```

web.json

```
"targets": [ "win2019:9182" ]
"targets": [ "win2019:8080" ]
```

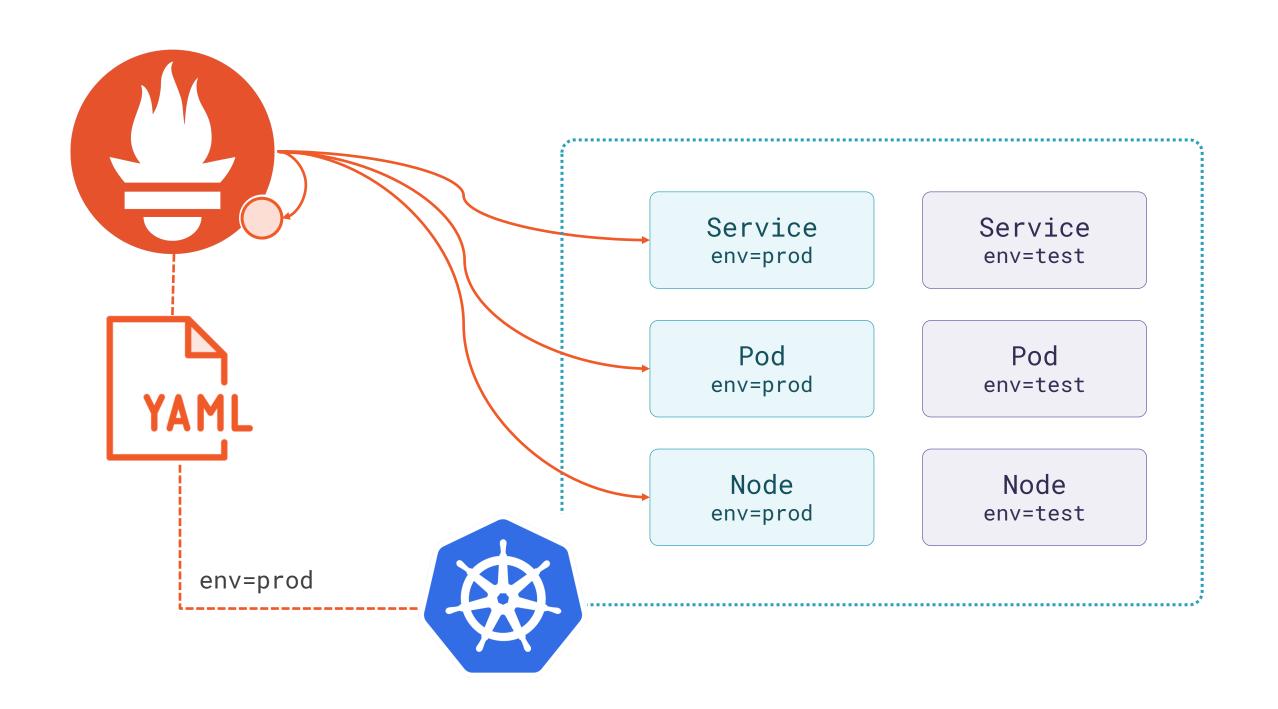


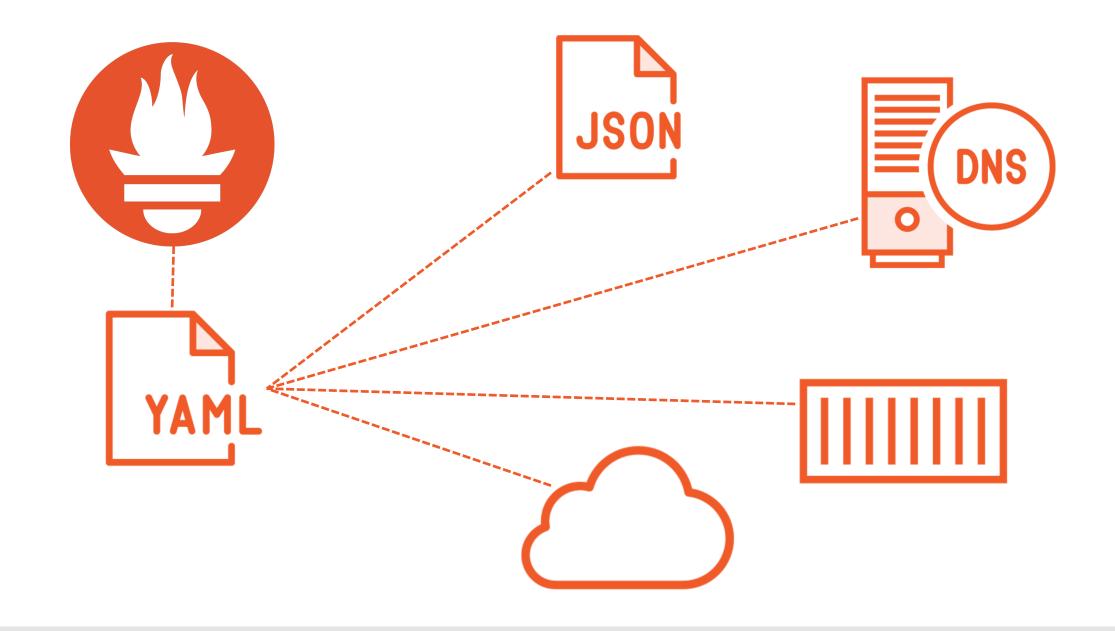
```
global:
  scrape_interval:
                    15s
scrape_configs:
  - job_name: web-dns
   dns_sd_configs:
      - names:
        - metrics.web
       type: SRV
```

# name	TTL	port	target
metrics.web	300	9132	box1.web.tld
metrics.web	300	9132	box2.web.tld
metrics.web	300	9132	box3.web.tld

```
global:
  scrape_interval:
                       15s
scrape_configs:
  - job_name: web-dns
    dns_sd_configs:
      - names:
        - metrics2.web
        type: A
        port: 8080
```

```
# name address
metrics2.web 172.17.143.229
metrics2.web 172.17.143.236
metrics2.web 172.17.143.242
```





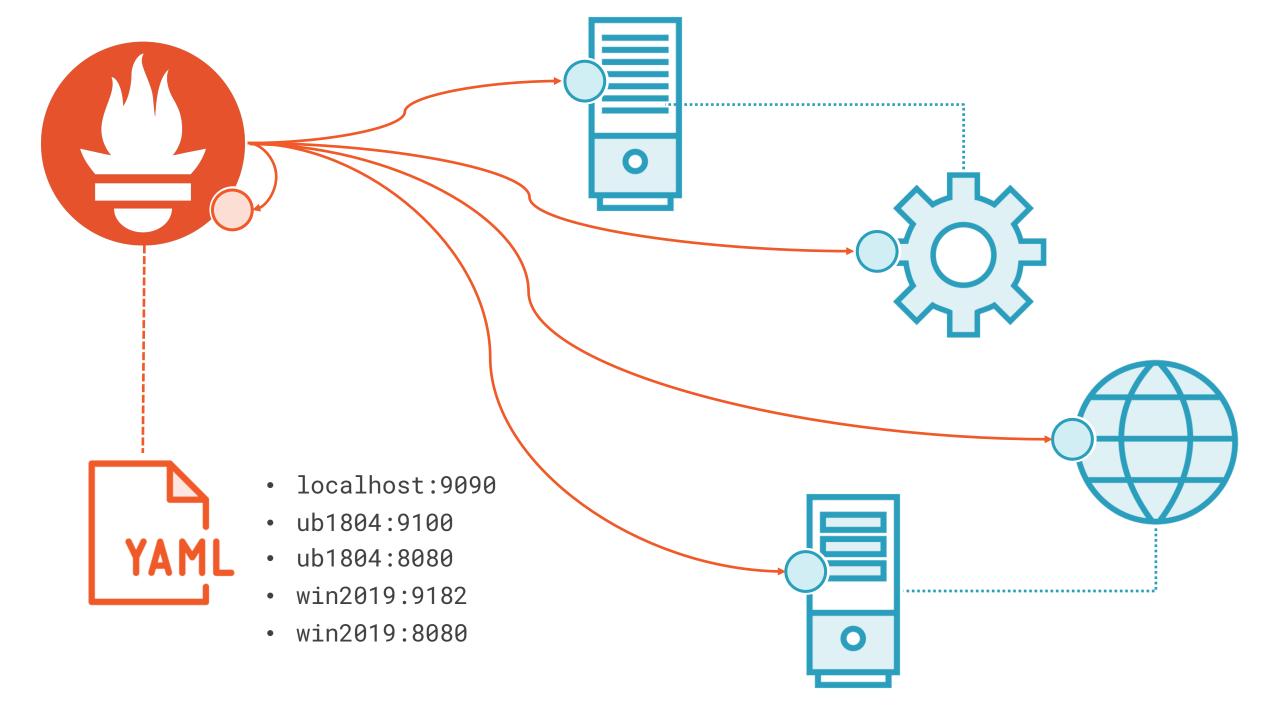
https://is.gd/ovutig

Demo



Configuring Prometheus

- Static target configuration
- Exploring scraped metrics
- Live configuration reloads





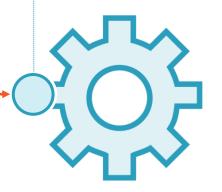
```
http_request_duration_seconds_count
{
  code="200",
  method="GET"
}
```

```
http_request_duration_seconds_count
{
  code="200",
  method="GET",
  job="web",
  instance="win2019"
}
```

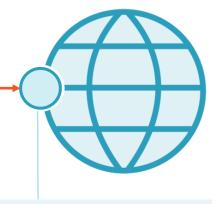




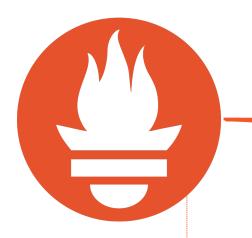
http_request_duration_seconds



```
http_request_duration_seconds
{ job="api" }
http_request_duration_seconds
{ job="web" }
```



http_request_duration_seconds



```
http_request_duration_seconds
http_request_duration_seconds
{ job="api", instance="01" }
http_request_duration_seconds
{ job="api", instance="02" }
http_request_duration_seconds
{ job="web", instance="01" }
http_request_duration_seconds
  job="web", instance="02" }
                                        http_request_duration_seconds
```

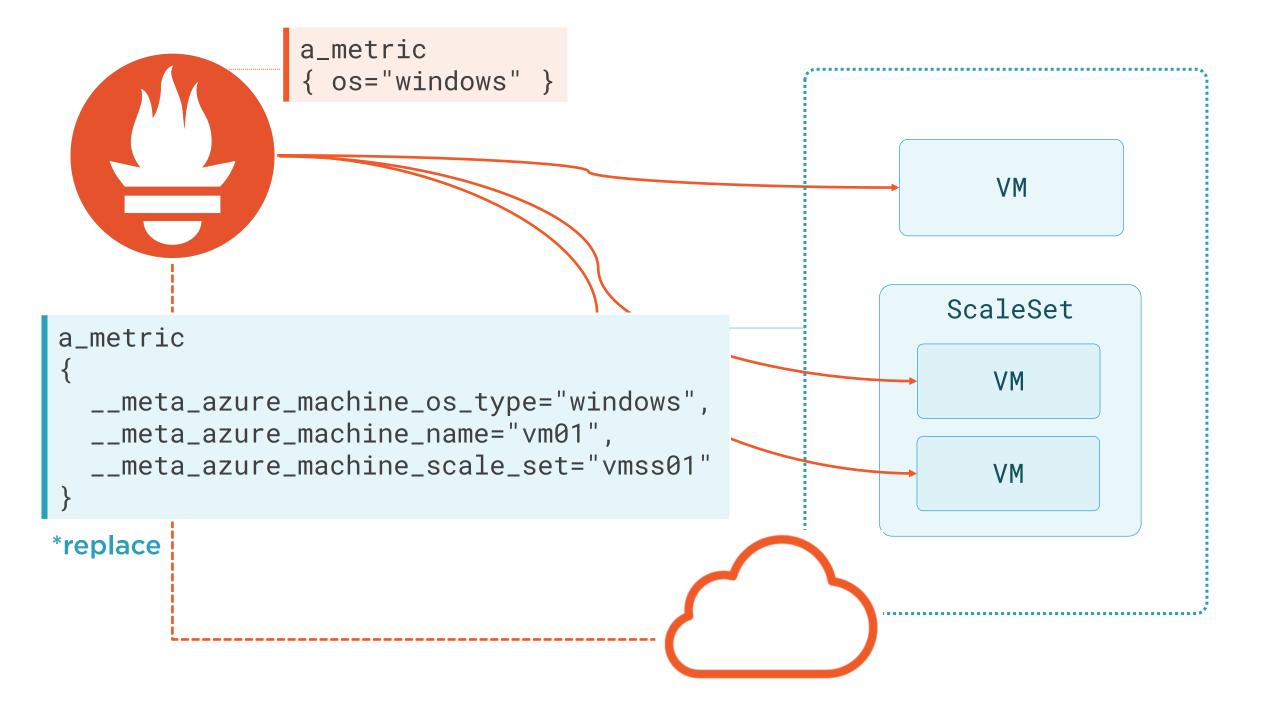


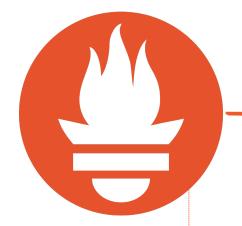
```
http_request_duration_seconds_count
{
  code="200",
  method="GET"
}
```

*add

```
http_request_duration_seconds_count
{
   code="200",
   method="GET",
   job="web",
   instance="win2019",
   env="prod",
   os="windows"
}
```

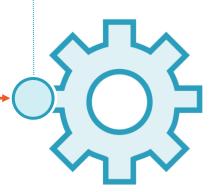




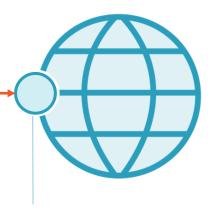


```
http_request_duration_seconds
{ responseCode="200" }
```

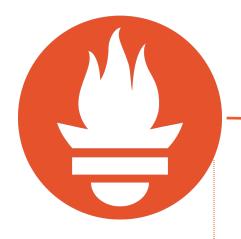
*replace



```
http_request_duration_seconds
{ job="api", code="200" }
http_request_duration_seconds
{ job="web", code="200" }
```



```
http_request_duration_seconds
{ code="200" }
```



```
http_request_duration_seconds
{
   code="200",
   method="GET",
   path="/",
   cacheHit="false"
}
```

*labeldrop

```
http_request_duration_seconds_count
{
  code="200",
  method="GET",
  job="web",
  instance="win2019"}
```





```
method_duration_seconds
{
   class="UserRepository",
   method="GetUser"
}
```

*drop



Demo



Filtering and enriching labels

- Adding static labels
- Relabelling at target level
- Relabelling at metric level



Adding labels
Static configs
File service discovery



Target relabelling
Copy service labels
Filter target on labels



Metric relabelling
Edit or drop labels
Drop metrics

Summary



Running Prometheus

- Cross-platform binary
- Local storage
- Command-line + YAML config

Configuring Prometheus

- Scrape configs
- Target list static or dynamic
- Platform integration for discovery

Target labels

- Relabelling to filter targets
- Replacing label values
- Relabelling to remodel metrics

Up Next: Querying Metrics with PromQL