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Prometheus

- 系统监控与警告系统,将指标数据 (cpu使用率、活动连接) 存储为时间序列。
- systemctl start prometheus 启动
- systemctl status prometheus 显示状态信息
- journalctl -u prometheus | grep error 具体问题日志

1. 直接传输(http)

```
//源端Prometheus配置
remote_write:
- url: http://<远程存储后端地址>/api/v1/write

//接收端Prometheus.yml配置
scrape_configs:
- job_name: 'remote_prometheus' //数据名
scrape_interval: 5m //抓取数据间隔
basic_auth: //验证
username: shgddfxxzxxm
password: Y05SAtgnzUyq
static_configs: //目标机器
- targets: ['172.20.88.244:9090']
```

2. 依赖源端nginx代理(https)

```
//prometheus.yml配置
scrape configs:
  - job_name: 'remote_prometheus' //数据名
   scrape_interval: 5m //抓取数据间隔
                                //指定抓取端点路径
   #metrics_path: /prometheus
   scheme: https
                                //协议
   tls config:
     insecure_skip_verify: true
   basic_auth:
                                //验证
     username: shgddfxxzxxm
     password: Y05SAtgnzUyq
                                //目标机器
   static_configs:
   - targets: '172.20.88.244'
//nginx配置
location / {
   proxy_pass http://172.20.88.244:9090/;
   proxy_http_version 1.1;
   proxy_set_header Upgrade $http_upgrade;
   proxy_set_header Connection keep-alive;
   proxy_set_header Host $host;
   proxy_cache_bypass $http_upgrade;
   proxy_set_header Connection "Upgrade";
   proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
```

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```
proxy_read_timeout 3000s;
}
```

3. 通过https与接收端nginx反向代理实现安全数据传输 (存疑)

```
//源端Prometheus.yml配置
remote write:
  - url: https://<nginx-proxy-address>/api/v1/write
   basic_auth: //如果 Nginx 配置了认证
       username: <username>
       password: <password>
   tls_config:
       ca_file: /path/to/ca.pem # 可选, 如果需要验证服务器证书
       cert_file: /path/to/client.pem # 可选, 如果需要客户端证书验证
       key_file: /path/to/client-key.pem
//接收端Prometheus.yml配置
remote read:
  - url: https://<nginx-proxy-address>/api/v1/read
   tls_config:
       ca_file: /path/to/ca.pem # 可选, 如果需要验证服务器证书
       cert_file: /path/to/client.pem # 可选, 如果需要客户端证书验证
       key_file: /path/to/client-key.pem
//nginx配置
server {
   listen 443 ssl;
   server_name <nginx-proxy-address>; //17.188.60.104
   ssl_certificate /path/to/server.crt;
   ssl_certificate_key /path/to/server.key;
   location /api/v1/write {
       proxy_pass http: //<receiving-prometheus-address>:9090/api/v1/write;
       proxy set header Host $host;
       proxy set header X-Real-IP $remote addr;
       proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
   }
   location /api/v1/read {
       proxy_pass http: //<receiving-prometheus-address>:9090/api/v1/read;
       proxy_set_header Host $host;
       proxy_set_header X-Real-IP $remote_addr;
       proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
   }
}
```

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4. 检验