Prometheus+Grafana主机运行数据

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介绍

Prometheus是一款开源的监控和警报工具,而Node Exporter是Prometheus的一个官方插件,用于采集主机上的各种系统和硬件指标。

安装Node Exporter

下载最新版本的Node Exporter二进制文件,可以在 Prometheus GitHub Releases 找到。

Plain Text

wget https://github.com/prometheus/node_exporter/releases/download/v1.7.0/n
ode_exporter-1.7.0.linux-amd64.tar.gz

解压缩并将二进制文件移到你希望运行的位置。



启动Node Exporter:

•		Plain Text
1	./node_exporter	

或者将其作为服务运行,具体方式取决于你的操作系统。

配置Prometheus

在Prometheus的配置文件(通常为prometheus.yml)中添加Node Exporter的目标配置。

Plain Text

```
1 scrape_configs:
2 
3 ------
4 
5 - job_name: 'node-exporter'
6 static_configs:
7 - targets: ['localhost:9100'] # Node Exporter的默认端口为9100
```

重新启动Prometheus以加载新的配置。

验证配置

•

访问Prometheus的Web界面(默认端口为9090): http://localhost:9090。

在"Targets"页面,你应该看到一个名为"node-exporter"的目标,并且其状态应为"UP"。

Targets								
All scrape pools - All Unhealthy Collaps	se All Q Filt	er by endpoint or labels	VInknown VInhealthy V Healthy					
node-exporter (1/1 up) down less								
Endpoint	State	Labels	Last Scrape	Scrape Duration	Error			
http://localhost:9100/metrics	UP	instance="localhost:9100" job="node-exporter"	13.447s ago	37.811ms				
prometheus (1/1 up) down les								
Endpoint	State	Labels	Last Scrape	Scrape Duration I	Error			
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	5.294s ago	8.874ms				

选择 Prometheus 作为数据源类型。

Ø		Q 搜索或跳转至	⊜ ctrl+k	+~ 0 🔉 🚺					
➡ 首页 > 连接 > 数据源 > Add d									
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物中的4014-01-235	Q Filter by n	ame or type		← Cancel					
ROBERS	Time series	latabases							
		Prometheus							
				Learn more					
	17	Graphite							
	20								
		InfluxDB							
	\mathbf{A}	Core							
		OpenTSDB Open source time series database							
	Logging & de								
	gang a a								
	1/1	Loki Like Prometheus but for logs. OSS logging solution from Grafana Labs							

在 HTTP 部分配置 Prometheus 的地址,如: http://192.168.1.1:9090,然后点击 "Save & Test" 验证连接是 否成功。

	Data Sou Type: Prometh	urces / Prometheus neus Pashboards			
	Name 🕕 I	Prometheus	Default		
主要配置这里	关键!!!!				
	URL O	http://100000000000000000000000000000000000	✓ Hetp >		
	Whitelisted Cookies		Add		
	Auth Basic auth	With Credentials	0		
	TLS Client Auth Skip TLS Verify	With CA Cert	•		
	Forward OAuth Identity	0			
默认就ok 🔶	Custom HTTP Headers + Add header				
	Scrape interval				
	Query timeout				
	HTTP Method				
	Misc				
	Disable metrics lookup	•			
	Custom query parameter	s @ Example: max_source_resolu			

	Allowed cookes	0	iten obeide (int einer to bidd)
》连接	Timeout		Timeout in seconds
加新连接	Alerting		
題	Manage alerts via Alerting UI		-
	Interval behaviour		
	Scrape interval		
	Query timeout		
	Query editor		
	Default editor		Builder ~
	Disable metrics lookup		
	Derformance		
	Performance		
	Prometheus type		选择 ~
	Cache level		Low ~
	Incremental queruing (bota)		
	incremental querying (beta)		
	Disable recording rules (beta)		
	Other		
	Custom query parameters		Example: max_source_resolution=5m&timeoul
	HTTP method		POST
	Exemplars		
	+ Add		
	 Successfully queried 	the P	rometheus API.
	Next, you can start to	o visua	lize data by building a dashboard, or by guerying
	Delete Save & test		

导入仪表盘

在左侧菜单栏中选择 "+", 然后选择 "导入仪表盘"。

+ ^	0	» 🕦
新建仪表板		^
导入仪表板		
创建警报规则		

在grafana.com/dashboards查找并导入常见应用程序的仪表板,官网(很多,不断优化、迭代中)。

Graiana Labs Products Open source Solutions Learn Docs Company	Q Downloads Contact us My Account
← All dashboards	
1.主机基础监控(cpu,内存,磁盘,网络)	Get this dashboard
精简优化重要指标展示。包含:CPU 内存 磁盘 IO 网络 等监控指标。 https://github.com/starsliao/Prometheus	Data source: Prometheus 5.0.0
Overview Revisions Reviews Edit →	Dependencies: grafana 5.3.4 Graph (old) 5.0.0 Singlestat 5.0.0
	Table 5.0.0 Import the dashboard template:
	or Download JSON
	L Docs: Importing dashboards

比如:主机基础监控(cpu,内存,磁盘,网络),导入仪表板模板:仪表板 ID 或 下载 JSON。

Q			Q. 搜索或跳转至	
三 首页 > 仪表板 > Import dashb	oard			
器 (火表板) 電波引速 快照 中国 (本)	Import dashboard Import dashboard from file or Grafana.com Importing dashboard from Grafana.com		ve hainuan	
洋山板	Lipdated on		2018-11-30 16:20:32	
公共化表版	Deptions Name 1.主机基础监控(cpu, 内存, 磁盘, 网络) Folder Dashboards Unique identifier (UID) The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafas changing the UID allows having consistent URLs for accessing dashboards installs. The UID allows having consistent any bookmarked links to that dashboard. Bkl9bBYIk	~ Change uid		
	Şelect a Prometheus data source	Q		
	e prometheus default	Prometheus 数据源选择籍 →		

至此, Prometheus+Grafana 部署成功。

