

Отчет ДЗ№9

Конфиг HAProxy

<https://github.com/gurgenbalayan/socialNetwork/blob/master/haproxy.cfg>

Конфиг Nginx

<https://github.com/gurgenbalayan/socialNetwork/blob/master/default.conf>

Docker Compose

<https://github.com/gurgenbalayan/socialNetwork/blob/master/docker-compose.yml>

Балансировка Postgres

Балансировку сделал только на реплики, только на операции чтения.

Все узлы подключены

HAProxy version 2.4.27-9bac8c7, released 2024/06/18

Statistics Report for pid 8

> General process information

pid = 8 (process #1, nbproc = 1, nbthread = 12)  
uptime = 0d 4h3m07s  
system limits: memmax = unlimited, ulimit-n = 577  
maxsock = 577, maxconn = 256, maxqueue = 0  
current conn = 6, current pipes = 100, conn rate = 0/sec, bit rate = 1.621 Mbps  
Running tasks: 0/36, idle = 100 %

active UP

active UP going down

active DOWN

active or backup DOWN

active or backup DOWN for maintenance (MAINT)

active or backup SOFT STOPPED for maintenance

backup UP

backup UP going down

backup DOWN

not checked

active or backup DOWN for maintenance (MAINT)

active or backup SOFT STOPPED for maintenance

Note: "NOLOADDRIFT" = UP with load-balancing disabled.

Display option:

Scope  
Hide DOWN servers  
Display refresh  
Refresh time  
CPU usage  
JSON export (external)

External resources:  
Docker API  
Docker logs  
Online manual

Stats		Queue		Session rate			Sessions			Bytes		Denied		Errors		Warnings		Status		Server	
	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	La/Tot	Last	In	Out	Req	Resp	Req	Conn	Resp	Rate	Reqs
Frontend	0	0	0	1	-	-	1	6	256	3	0	0s	39 485	1 741 475	0	0	0	3	0	0	0
Backend	0	0	0	1	1	-	0	1	26	3	0	0s	39 485	1 741 475	0	0	0	3	0	0	0

nginxOnly

Queue		Session rate			Sessions			Bytes		Denied		Errors		Warnings		Status		Server			
	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	La/Tot	Last	In	Out	Req	Resp	Req	Conn	Resp	Rate	Reqs
Frontend	0	0	-	0	2	-	1	2	-	33	10	22m14s	7 034	3 788	0	0	0	0	0	0	0
pgmaster	0	0	-	0	2	-	1	2	-	33	14	22m14s	3 750	6 058	0	1	0	3	0	0	0
pgslave	0	0	-	0	2	-	1	2	-	33	14	22m14s	3 750	6 058	0	1	0	3	0	0	0
pgwecreole	0	0	-	0	2	-	1	1	-	9	9	22m14s	1 545	3 960	0	0	0	0	0	0	0
Backend	0	0	0	4	-	-	3	4	26	33	33	22m14s	11 329	13 756	0	0	0	1	0	3	0

Choose the action to perform on the checked servers :

Отключил два узла

HAProxy version 2.4.27-9bac8c7, released 2024/06/18

Statistics Report for pid 8

> General process information

pid = 8 (process #1, nbproc = 1, nbthread = 12)  
uptime = 0d 4h3m07s  
system limits: memmax = unlimited, ulimit-n = 577  
maxsock = 577, maxconn = 256, maxqueue = 0  
current conn = 3, current pipes = 90, conn rate = 0/sec, bit rate = 0.000 Mbps  
Running tasks: 0/37, idle = 100 %

active UP

active UP going down

active DOWN

active or backup DOWN

active or backup DOWN for maintenance (MAINT)

active or backup SOFT STOPPED for maintenance

backup UP

backup UP going down

backup DOWN

not checked

active or backup DOWN for maintenance (MAINT)

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Note: "NOLOADDRIFT" = UP with load-balancing disabled.

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	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	La/Tot	Last	In	Out	Req	Resp	Req	Conn	Resp	Rate	Reqs
Frontend	0	0	0	1	-	-	1	6	256	4	0	0s	48 079	2 169 717	0	0	0	3	0	0	0
Backend	0	0	0	1	-	-	0	1	26	3	0	0s	48 079	2 169 717	0	0	0	3	0	0	0

nginxOnly

Queue		Session rate			Sessions			Bytes		Denied		Errors		Warnings		Status		Server			
	Cur	Max	Limit	Cur	Max	Limit	Cur	Max	Limit	Total	La/Tot	Last	In	Out	Req	Resp	Req	Conn	Resp	Rate	Reqs
Frontend	0	0	-	0	2	-	1	2	-	33	10	25m46s	7 034	3 788	0	0	0	0	0	0	0
pgmaster	0	0	-	0	2	-	1	2	-	33	14	25m46s	3 154	6 869	0	1	0	3	0	0	0
pgslave	0	0	-	0	2	-	1	1	-	8	9	25m46s	1 545	3 960	0	0	0	0	0	0	0
pgwecreole	0	0	-	0	2	-	1	1	-	8	9	25m46s	1 545	3 960	0	0	0	0	0	0	0
Backend	0	0	0	4	-	-	2	4	26	33	33	25m46s	11 733	14 617	0	0	0	1	0	3	0

Choose the action to perform on the checked servers :

Балансировка приложения

Запустил три экземпляра приложения, на трех разных портах, пробросил в контейнер nginx gateway до хостовой машины, это можно увидеть в конфиге

# Все узлы подключены

▼

<

>

127.0.0.1

Active connections: 4  
server accepts handled requests  
6 6 29  
Reading: 0 Writing: 1 Waiting: 3

# Отключил два узла

▼

<

>

127.0.0.1

Active connections: 1  
server accepts handled requests  
7 7 30  
Reading: 0 Writing: 1 Waiting: 0