Admins - Demande #4740

Revoir le paramégrage RAM de la vm agir

16/09/2020 01:42 - Christian P. Momon

Statut:	Fermé		**Début:**	16/09/2020
Priorité:	Normale		**Echéance:**	
Assigné à:	Christian P. Momon		**% réalisé:**	0%
Catégorie:			**Temps estimé:**	0.00 heure
Version cible:	Octobre 2020		**Temps passé:**	0.00 heure
Difficulté:	2 Facile			

Description

Cela fait maintenant une dizaine de jours que le nouveau paramétrage du swap est en place (#4664).
Pourtant il semble que la vm agir continue de swapper plus qu'attendu :

```
cpm@ocmstar (00:57:04) ~/…/admin/scripts 5 > ./swapshow.sh
                     Swap       Swap                RAM
                    Total       Used              Total
                     (Mo)       (Mo)      %        (Mo)
agir                  951        698     73 %      1238
```

Demande : analyser pourquoi ça swap et proposer une solution.

(le retour à 100% à la fin du graphique correspond à un reboot)
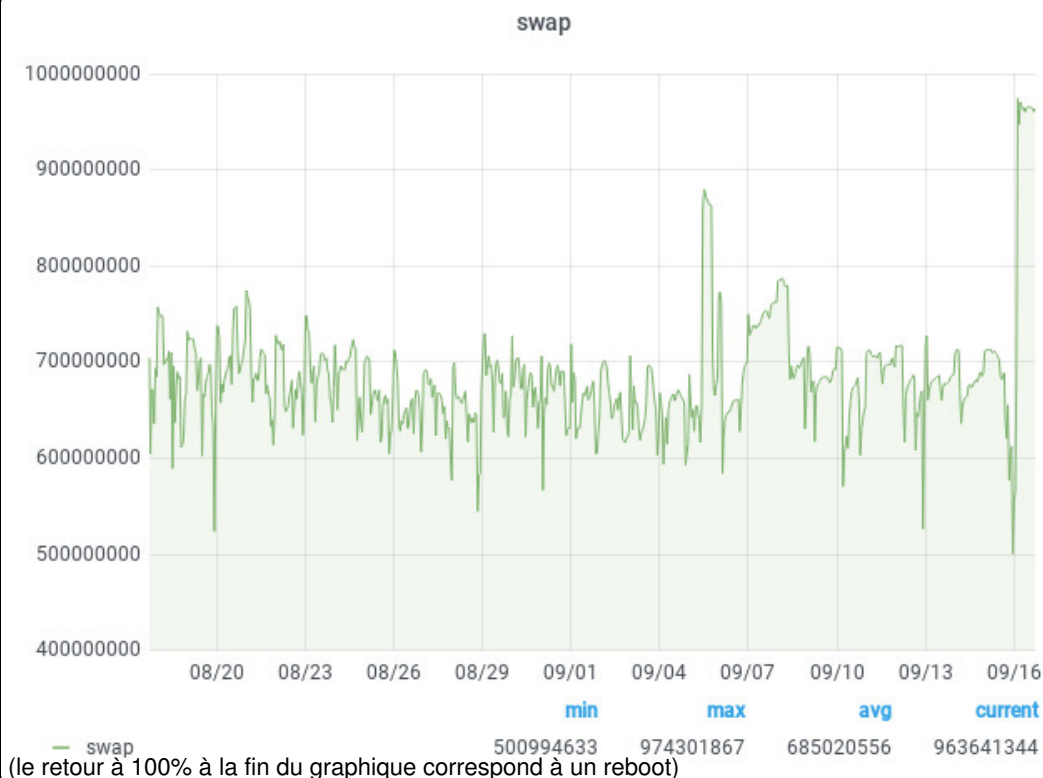
Historique

#1 - 16/09/2020 02:18 - Christian P. Momon

Voyons ce qui encombre le swap :

```
(April) root@agir:/etc/gitea[master]# psswap |head
mysqld 644 174312 kB
systemd-journal 21118 62876 kB
gitea 16083 61956 kB
```

J'en conclue que quelque chose prend de la place en mémoire qui pousse tout ça dans le swap.

En trifouillant top (touche 'f' pour ajouter les colonnes SWAP et USED, touche 'e' pour modifier l'unité) :

```
Tasks: 113 total,   2 running, 104 sleeping,   0 stopped,   7 zombie
%Cpu(s):  0.7 us,  0.3 sy,  0.2 ni, 97.8 id,  1.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1239.0 total,    144.7 free,    818.3 used,    275.9 buff/cache
MiB Swap:    952.0 total,    618.8 free,    333.2 used.    355.2 avail Mem


  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND                SWAP    USED
16083 gitea     20   0 2837.8m 272.3m  13.4m S   1.0  22.0  49:46.10 gitea                 60.3m  332.6m
17893 www-data  20   0  518.5m 172.1m   8.7m S   0.0  13.9   1:26.46 ruby                   4.9m  177.0m
12549 www-data  20   0  387.0m 130.8m   6.0m S   0.0  10.6   0:00.36 ruby                   0.0m  130.8m
12529 www-data  20   0  255.2m 117.0m  17.5m S   0.0   9.4   0:02.40 ruby                   0.0m  117.0m
  644 mysql     20   0 1573.9m 101.6m   0.0m S   0.0   8.2 175:39.76 mysqld               162.8m  264.4m
17778 root      20   0 1064.2m   8.3m   3.8m S   0.0   0.7   0:13.15 PassengerAgent         1.5m    9.8m
 9450 postfix   20   0   42.2m   7.3m   6.5m S   0.0   0.6   0:00.01 pickup                 0.0m    7.3m
```

Rien de vraiment anormal, 332 +177 + 130 +117 +264 + 10 + 7 = 1037, ce qui doit pouvoir le faire avec 1239M de RAM.

#2 - 16/09/2020 02:19 - Christian P. Momon

En cherchant d'éventuel OOM Kill, je suis tombé sur :

```
(April) root@agir:/etc/gitea[master]# zgrep "Out of memory" /var/log/syslog*
/var/log/syslog.141.gz:Apr 28 19:11:23 agir kernel: [590937.072410] Out of memory: Kill process 497 (gitea) sc
ore 610 or sacrifice child
/var/log/syslog.119.gz:May 20 18:09:47 agir kernel: [881642.376108] Out of memory: Kill process 31993 (gitea)
score 563 or sacrifice child
/var/log/syslog.119.gz:May 20 18:10:16 agir kernel: [881671.395342] Out of memory: Kill process 31993 (gitea)
score 563 or sacrifice child
/var/log/syslog.106.gz:Jun  2 23:22:45 agir kernel: [2023599.778117] Out of memory: Kill process 3914 (gitea)
score 499 or sacrifice child
/var/log/syslog.92.gz: Jun 16 03:56:48 agir kernel: [427874.838786] Out of memory: Kill process 505 (gitea) sc
ore 531 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:45:55 agir kernel: [916814.154429] Out of memory: Kill process 3118 (gitea) s
core 577 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:48:09 agir kernel: [916947.348482] Out of memory: Kill process 3809 (gitea) s
core 501 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:49:10 agir kernel: [917008.585841] Out of memory: Kill process 3831 (gitea) s
core 532 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:50:05 agir kernel: [917061.859641] Out of memory: Kill process 3950 (gitea) s
core 567 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:52:56 agir kernel: [917235.274212] Out of memory: Kill process 4427 (gitea) s
core 605 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:55:49 agir kernel: [917407.711219] Out of memory: Kill process 5068 (gitea) s
core 542 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:56:59 agir kernel: [917477.853177] Out of memory: Kill process 5601 (gitea) s
core 522 or sacrifice child
/var/log/syslog.87.gz: Jun 21 19:58:29 agir kernel: [917567.928418] Out of memory: Kill process 5726 (gitea) s
core 478 or sacrifice child
/var/log/syslog.87.gz: Jun 21 20:01:19 agir kernel: [917737.661714] Out of memory: Kill process 5933 (gitea) s
core 643 or sacrifice child
/var/log/syslog.75.gz: Jul  3 19:53:17 agir kernel: [1954035.411466] Out of memory: Kill process 23099 (gitea)
 score 523 or sacrifice child
/var/log/syslog.75.gz: Jul  3 19:53:27 agir kernel: [1954045.916354] Out of memory: Kill process 23099 (gitea)
 score 574 or sacrifice child
/var/log/syslog.64.gz: Jul 14 09:22:55 agir kernel: [2866596.812501] Out of memory: Kill process 9354 (gitea)
score 583 or sacrifice child
/var/log/syslog.60.gz: Jul 18 06:30:09 agir kernel: [3201824.544533] Out of memory: Kill process 10481 (gitea)
 score 536 or sacrifice child
/var/log/syslog.60.gz: Jul 18 18:55:03 agir kernel: [3246517.817505] Out of memory: Kill process 31311 (gitea)
 score 575 or sacrifice child
/var/log/syslog.48.gz: Jul 30 04:42:46 agir kernel: [350795.729807] Out of memory: Kill process 503 (gitea) sc
ore 558 or sacrifice child
/var/log/syslog.47.gz: Jul 31 22:08:57 agir kernel: [499964.704627] Out of memory: Kill process 13868 (gitea)
score 587 or sacrifice child
/var/log/syslog.42.gz: Aug  5 01:30:15 agir gitea[523]: fatal: Out of memory, malloc failed (tried to allocate
 73394818 bytes)
/var/log/syslog.40.gz: Aug  7 21:44:59 agir gitea[523]: fatal: Out of memory, malloc failed (tried to allocate
 82456820 bytes)
/var/log/syslog.40.gz: Aug  7 21:45:27 agir kernel: [501712.547840] Out of memory: Kill process 523 (gitea) sc
ore 607 or sacrifice child
/var/log/syslog.28.gz: Aug 19 12:25:13 agir kernel: [1504881.119011] Out of memory: Kill process 17230 (gitea)
 score 524 or sacrifice child
```

```
/var/log/syslog.28.gz: Aug 19 22:19:46 agir kernel: [1540553.717669] Out of memory: Kill process 17230 (gitea)
 score 520 or sacrifice child
/var/log/syslog.27.gz: Aug 20 22:01:26 agir kernel: [1625843.628131] Out of memory: Kill process 15393 (gitea)
 score 570 or sacrifice child
/var/log/syslog.23.gz: Aug 24 18:41:12 agir kernel: [1959432.888457] Out of memory: Kill process 14576 (gitea)
 score 499 or sacrifice child
/var/log/syslog.19.gz: Aug 28 22:15:45 agir gitea[14576]: fatal: Out of memory, malloc failed (tried to alloca
te 82456820 bytes)
/var/log/syslog.19.gz: Aug 28 22:16:31 agir kernel: [2317945.059618] Out of memory: Kill process 14576 (gitea)
 score 581 or sacrifice child
/var/log/syslog.18.gz: Aug 29 20:55:12 agir kernel: [2399464.460851] Out of memory: Kill process 11642 (gitea)
 score 512 or sacrifice child
/var/log/syslog.18.gz: Aug 29 20:55:24 agir kernel: [2399476.968879] Out of memory: Kill process 11642 (gitea)
 score 515 or sacrifice child
/var/log/syslog.17.gz: Aug 30 07:45:03 agir kernel: [2438454.611207] Out of memory: Kill process 5911 (gitea)
score 644 or sacrifice child
/var/log/syslog.16.gz: Aug 31 04:01:37 agir kernel: [2511447.910023] Out of memory: Kill process 11931 (gitea)
 score 595 or sacrifice child
/var/log/syslog.16.gz: Aug 31 19:45:04 agir kernel: [2568053.705629] Out of memory: Kill process 20039 (gitea)
 score 514 or sacrifice child
/var/log/syslog.13.gz: Sep  3 01:46:17 agir kernel: [2762523.856579] Out of memory: Kill process 25278 (gitea)
 score 470 or sacrifice child
/var/log/syslog.13.gz: Sep  3 01:47:07 agir kernel: [2762574.296537] Out of memory: Kill process 25278 (gitea)
 score 540 or sacrifice child
/var/log/syslog.10.gz: Sep  6 17:37:08 agir gitea[5528]: error: Out of memory, malloc failed (tried to allocat
e 37095436 bytes)
/var/log/syslog.10.gz: Sep  6 17:37:10 agir kernel: [3078770.453659] Out of memory: Kill process 5528 (gitea)
score 479 or sacrifice child
/var/log/syslog.6.gz:  Sep 10 09:34:26 agir kernel: [3395399.447465] Out of memory: Kill process 20601 (gitea)
 score 650 or sacrifice child
/var/log/syslog.4.gz:  Sep 12 07:10:57 agir kernel: [3559589.503606] Out of memory: Kill process 10598 (gitea)
 score 534 or sacrifice child
/var/log/syslog.4.gz:  Sep 12 07:11:12 agir kernel: [3559604.615636] Out of memory: Kill process 10598 (gitea)
 score 595 or sacrifice child
/var/log/syslog.4.gz:  Sep 12 16:37:41 agir gitea[16727]: fatal: Out of memory, malloc failed (tried to alloca
te 82456820 bytes)
/var/log/syslog.4.gz:  Sep 12 16:38:00 agir kernel: [3593611.511849] Out of memory: Kill process 16727 (gitea)
 score 592 or sacrifice child
/var/log/syslog.4.gz:  Sep 12 22:15:12 agir kernel: [3613843.209350] Out of memory: Kill process 12159 (gitea)
 score 532 or sacrifice child
/var/log/syslog:       Sep 16 00:50:51 agir kernel: [3882378.501710] Out of memory: Kill process 16083 (gitea)
 score 476 or sacrifice child
/var/log/syslog:       Sep 16 00:52:35 agir kernel: [3882481.931408] Out of memory: Kill process 16083 (gitea)
 score 571 or sacrifice child
```

Donc il semble que fréquemment (plusieurs fois par mois), cette vm manque de RAM.

Question : **qui est le glouton ?**

#3 - 16/09/2020 02:20 - Christian P. Momon

- Statut changé de Nouveau à En cours de traitement

- Assigné à mis à Christian P. Momon

Pour information, pour Gitea il est recommandé 1Go de RAM. Comme d'autres applications tournent sur cette vm, on peut penser légitime d'augmenter un peu la RAM.

Proposition :

* augmenter la RAM de 512 Mo.

Vos avis ?

#4 - 16/09/2020 17:16 - Christian P. Momon

- Fichier swapagir.jpg ajouté

- Description mis à jour

#5 - 30/09/2020 21:31 - Quentin Gibeaux

- Version cible changé de Septembre 2020 à Octobre 2020

#6 - 01/10/2020 04:15 - Christian P. Momon

Pendant la réunion de sprint, la question du total de mémoire utilisée sur le cluster a été posée.
Pour y répondre, création du script memkvm.sh dans le dépôt git admin.

Avant :

```
cpm@ocmstar (04:03:29) ~/Dossiers/April/Adminsys/git/admin/scripts 196 > ./memkvm.sh
                       KVM RAM
adl                       2304 Mo  calamus
agir                      1280 Mo  calamus
bots                       512 Mo  calamus
candidatsfr               1024 Mo  calamus
lamp                      2048 Mo  calamus
pad                       1024 Mo  calamus
pouet                     2048 Mo  calamus
republique-numerique       512 Mo  calamus
scm                        512 Mo  calamus
spip                      1024 Mo  calamus
webchat                    512 Mo  calamus
                        ======
             Total     12800 Mo


                       KVM RAM
admin                     1024 Mo  virola
bastion                    768 Mo  virola
cms-dev                   1024 Mo  virola
dns                       1024 Mo  virola
drupal6                   4096 Mo  virola
dtc                       1024 Mo  virola
mail                      2048 Mo  virola
mumble                     512 Mo  virola
sympa                     4096 Mo  virola
                        ======
             Total     15616 Mo


                        ======
             TOTAL     28416 Mo
```

#7 - 01/10/2020 04:22 - Christian P. Momon

- Statut changé de En cours de traitement à Résolu

Fait.
Après :

```
cpm@ocmstar (04:20:18) ~/Dossiers/April/Adminsys/git/admin/scripts 202 > ./memkvm.sh
                       KVM RAM
adl                       2304 Mo  calamus
bots                       512 Mo  calamus
candidatsfr               1024 Mo  calamus
lamp                      2048 Mo  calamus
pad                       1024 Mo  calamus
pouet                     2048 Mo  calamus
republique-numerique       512 Mo  calamus
scm                        512 Mo  calamus
spip                      1024 Mo  calamus
webchat                    512 Mo  calamus
agir                      1792 Mo  calamus
                        ======
             Total     13312 Mo


                       KVM RAM
admin                     1024 Mo  virola
bastion                    768 Mo  virola
cms-dev                   1024 Mo  virola
dns                       1024 Mo  virola
drupal6                   4096 Mo  virola
dtc                       1024 Mo  virola
mail                      2048 Mo  virola
mumble                     512 Mo  virola
sympa                     4096 Mo  virola
                        ======
             Total     15616 Mo
```

```
                     ======
          TOTAL      28928 Mo
```

#8 - 01/10/2020 13:41 - Quentin Gibeaux

- Statut changé de Résolu à Fermé

Fichiers

swapagir.jpg	45 ko	16/09/2020	Christian P. Momon