Readme myCore_comparison_estimate-load_real-load_on_ownCloud



My CoRE project ownCloud beta service load compared to estimate

Reference N/A

Last update 20/08/2015

Version 1.1

Responsible CNRS (D. Rousse)
Other documents/info. load estimate at

 $https://github.com/CNRS-DSI-Dev/mycore_press/blob/master/CNRS-LINAGORA-ownCloud-load-estimate.ods$

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Object The aim of this document is to compare Apache, SQL and network load mesured during My CoRe beta service to estimate made before launching the service.

Content :

Sheet 1: This sheet

Sheet 2 : Comparison sheet

| Table des mises à jour du document | | | | | | | |
|------------------------------------|------------|-------------------------|--|--|--|--|--|
| Version | Date | Objet de la mise à jour | | | | | |
| 1.0 | 08/10/2015 | Initial release | | | | | |
| 1.1 | 20/10/2015 | Some update | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Comparison myCore_comparison_estimate-load_real-load_on_ownCloud

| | BDD | | Wel | b | Network | | | | | | |
|-----------------|---------------------|------------------|------------------|------------------|----------------|-----------------|--------------------------------|---------------|--|--|--|
| | Number of SQL (requ | ests per second) | Number of web se | ssions (per day) | Bandwith usage | e upload (Mb/s) | Bandwith usage download (Mb/s) | | | | |
| Number of users | Simulation | Real load | Simulation | Real load | Simulation | Real load | Simulation | Real load | | | |
| 585 | 558 | 371 | 88 | 15 | 8 | Not available | 22 | Not available | | | |
| 754 | 723 | 505 | 113 | 27 | 10 | Not available | 29 | Not available | | | |
| 1018 | 976 | 465 | 153 | 31 | 14 | Not available | 39 | Not available | | | |
| 1128 | 1081 | 1085 | 169 | 42 | 16 | 4.5 | 43 | 8.1 | | | |
| 1196 | 1146 | 475 | 179 | 35 | 17 | 4.05 | 46 | 4.35 | | | |
| 1215 | 1165 | 482 | 182 | 46 | 17 | 3 | 46 | 6 | | | |
| 1251 | . 1199 | 323 | 188 | 36 | 17 | 3 | 48 | 6 | | | |
| 1284 | 1231 | 323 | 193 | 33 | 18 | 2.4 | 49 | 4.5 | | | |
| 1306 | 1252 | 418 | 196 | 33 | 18 | 2.4 | 50 | 4.5 | | | |
| To be continued | | | | | | | | | | | |

Nota and comments:

We consider that 15 % of users are active (regarding the figures in https://github.com/CNRS-DSI-Dev/mycore_press/blob/master/CNRS-LINAGORA-ownCloud-load-estimate.ods)
Service is available for production only after 1500 end users accounts

Simulation figures are extracted from https://github.com/CNRS-DSI-Dev/mycore_press/blob/master/CNRS-LINAGORA-ownCloud-load-estimate.ods)

Real load figures are extracted from internal CNRS monitoring tool (Centreon system)

At present time, differences between simulation and real load could be explained by the service status: service is only beta so end users do not use it as a real production service. Some other statistics extracted from Dashboard ownCloud app, used in My CoRe, seems to confirm that: there are few shares, few data and files stored are on average small (for 1306 users, we have 1249 shares, 591 Gb files stored and average file size is 858 kB). This hypothesis needs to be confirmed within a few months.

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Helper

Sheet dedicated to create Comparison tab

| Total (INSER | RT + SEL | LECT + UPDAT | E) | From https://g | ithub.com/CNR | S-DSI-Dev/my | core_press/blo | b/master/CNRS | S-LINAGORA-ow | nCloud-load-e | stimate.ods | |
|---------------|------------|-----------------|--------------|-----------------|-----------------|---------------------|--------------------------|----------------|------------------|---------------|--------------|---|
| | | 1 | 1000 | | | 50000 | 70000 | | | | | |
| | 0.05 5 | 5.930092593 | 365.9490741 | 1829.74537 | 10978.47222 | 18297.4537 | 25616.43519 | 36594.90741 | | | | |
| | | | | | 19873.61111 | | | | | | | |
| | | | | 4794.791667 | | | | 95895.83333 | | | | |
| | | | | | 39747.22222 | | | | | | | |
| | | | | | 61704.16667 | | | | | | | |
| | | | | | 68118.05556 | | | | | | | |
| | 0.5 - | 4.541205704 | 2270.001032 | 11333.00920 | 00110.03330 | 113330.0920 | 130942.1290 | 227000.1032 | | | | |
| Total (INSER | T + SFI | LECT + UPDAT | E) | Calculated fro | m tab above. B | old line used ir | the comparis | on sheet | | | | |
| rotal (INSEL | (I · OLI | 1 | 585 | | | 1128 | 1196 | | 1251 | 1284 | 1306 | |
| | 0.05 | 6 | 214 | | | 413 | 438 | | 458 | 470 | 478 | |
| | 0.03 | 6 | 388 | | | 747 | 792 | | 829 | 851 | 865 | |
| | 0.15 | 6 | 561 | | | 1082 | 1147 | | 1200 | 1231 | 1252 | |
| | 0.2 | 6 | 775 | | | 1494 | 1585 | | 1657 | 1701 | 1730 | |
| | | 6 | 1203 | | | 2320 | 2460 | | 2573 | 2641 | 2686 | |
| | 0.3 0.5 | 5 | 1328 | | | 2520 | | | 2841 | | 2965 | |
| | 0.5 | 5 | 1320 | 1/12 | 2311 | 2501 | 2716 | 2759 | 2041 | 2915 | 2905 | |
| | | | | | | | | | | | | |
| Client | wien- | | | Extract from " | Cliente connevi | one win https:/ | /aithuh.com/C | NIDS-DSI Dovin | weare proce/blo | h/mastar/CNE | S-LINACORA | A-ownCloud-load-estimate.ods and used for « Number of web sessions (per day ») |
| Clients conne | KIONS | 1 | 1000 | | | 50000 » in nups./ | 70000 | | iycore_press/bio | D/Masien/CNF | 13-LIIVAGURA | n-own-cloud-load-estimate.ous and used for « mainther of web sessions (per day ») |
| | 0.05 | 1 | 50 | | | 2500 | 3500 | | | | | |
| | 0.05 | | | | | | | | | | | |
| | 0.1 | 1 | 100 | | | 5000 7500 | 7000 | | | | | |
| | 0.15 | 1 | 150 | | | 7500 | 10500 | | | | | |
| | 0.2 | 1 | 200 | | | 10000 | 14000 | | | | | |
| | 0.3 | 1 | 300 | | | 15000 | 21000 | | | | | |
| | 0.5 | 1 | 500 | 2500 | 15000 | 25000 | 35000 | 50000 | | | | |
| Number o | fuch o | anniana (nar | dov) for 150 | of active year | ro | | | | | | | |
| « Number o | | | - , | 6 of active use | is | | | | | | | |
| | 585 | 87.75 | 87.75 | | | | | | | | | |
| | 754 | 113.1 | | | | | | | | | | |
| | 1018 | 152.7 | | | | | | | | | | |
| | 1128 | 169.2 | | | | | | | | | | |
| | 1196 | 179.4 | | | | | | | | | | |
| | 1215 | 182.25 | | | | | | | | | | |
| | 1251 | 187.65 | | | | | | | | | | |
| | 1284 | 192.6 | | | | | | | | | | |
| | 1306 | 195.9 | | | | | | | | | | |
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| | | | | | 381.9444444 | | | | | | | |
| | | | | | 763.8888889 | | | | | | | |
| | | | | | 1145.833333 | | | | | | | |
| | | | | | 1527.777778 | | | | | | | |
| | | | | | 2291.666667 | | | | | | | |
| | 0.5 | 0.25462963 | 127.3148148 | 030.5/40/41 | 3819.444444 | 0305.740741 | 8912.037037 | 12/31.48148 | | | | |
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| Bandwith us | | ownload (Mb/s |) | | | | | | | | | |
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| | 754 | 29 | | | | | | | | | | |
| | 1018 | 39 | | | | | | | | | | |
| | 1128 | 43 | | | | | | | | | | |
| | 1196 | 46 | | | | | | | | | | |
| | 1215 | 46 | | | | | | | | | | |
| | 1251 | 48 | | | | | | | | | | |
| | 1284 | 49 | | | | | | | | | | |
| | 1306 | 50 | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Linland | | | | | | | | | | | | |

| Upload | | | | | | | |
|--------------|---------------|-------------------|----------------|------------------|--------------|-------------|----------------------------|
| Total upload | From http | s://github.com/CN | IRS-DSI-Dev/my | vcore_press/blok | b/master/CNR | S-LINAGORA- | ownCloud-load-estimate.ods |
| | 1 | 000 500 | 00 30000 | 50000 | 70000 | 100000 | |
| 0.05 0.0925 | 92593 4.62962 | 963 23.1481481 | .5 138.8888889 | 231.4814815 | 324.0740741 | 462.962963 | |

myCore_comparison_estimate-load_real-load_on_ownCloud

```
0.1 0.092592593 9.259259259 46.2962963 277.777778 462.962963 648.1481481 925.9259259
         0.15 0.092592593 13.88888889 69.44444444 416.6666667 694.4444444 972.2222222 1388.888889
          0.2 0.092592593 18.51851852 92.59259259 555.5555556 925.9259259 1296.296296 1851.851852
          0.3 0.092592593 27.77777778 138.8888889 833.333333 1388.888889 1944.444444 2777.777778
          0.5 0.092592593 46.2962963 231.4814815 1388.888889 2314.814815 3240.740741 4629.62963
Bandwith usage upload (Mb/s)
          585
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         1196
                      17
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                      17
         1251
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         1306
                      18
```

How to find statistics

Internal CNRS source for real load statistics

Number of users

sers

585 BL_0017_20150316_Métriques_Techniques_FW11/20150316 - My CoRe - Indicateurs.pdf et Point_COPIL_17032015.pdf

754 BL_0023_20150430_Métriques_Techniques_FW17/20150427 - My CoRe - Indicateurs.docx et Point_COPIL_21042015.pdf

1018 BL_0028_20150601_Métriques_Techniques_FW22/20150601 - My CoRe - Indicateurs.pdf et Point_COPIL_01062015.pdf

1128 BL_0030_20150617_Métriques_Techniques_FW24/20150615 - My CoRe - Indicateurs.pdf

1196 BL_0031_20150629_Métriques_Techniques_FW25_26/20150622 - My CoRe - Indicateurs.pdf

1215 BL_0031_20150629_Métriques_Techniques_FW25_26/20150629 - My CoRe - Indicateurs.pdf

1251 BL_0032_20150706_Métriques_Techniques_FW27/20150706 - My CoRe - Indicateurs.pdf

1284 BL_0034_20150717_Métriques_Techniques_FW28/20150713 - My CoRe - Indicateurs.pdf

1306 BL_0035_20150720_Métriques_Techniques_FW29/20150720 - My CoRe - Indicateurs.pdf