

Anexo: 04_AMZN_Ray_Pipeline_Kmeans_5000

Framework: Ray

Worker: Ray Client

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|--------------------------------|--------|--------|--------|--------|--------|
| Media CPU (%) | 13.676 | 14.764 | 15.123 | 13.962 | 14.317 |
| Desviación típica CPU (%) | 7.028 | 8.327 | 7.634 | 6.028 | 7.302 |
| Mínimo CPU (%) | 6.420 | 8.330 | 7.740 | 8.300 | 8.910 |
| Máximo CPU (%) | 47.570 | 50.890 | 45.660 | 48.420 | 52.420 |
| Mediana CPU (%) | 11.780 | 12.120 | 12.415 | 12.255 | 12.630 |
| Media Memoria (GB) | 1.775 | 1.799 | 1.765 | 1.871 | 1.906 |
| Desviación típica Memoria (GB) | 0.051 | 0.058 | 0.056 | 0.070 | 0.090 |
| Mínimo Memoria (GB) | 1.740 | 1.748 | 1.689 | 1.643 | 1.721 |
| Máximo Memoria (GB) | 1.927 | 2.109 | 1.839 | 1.990 | 2.063 |
| Mediana Memoria (GB) | 1.749 | 1.775 | 1.763 | 1.854 | 1.911 |

Worker: Ray Head

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|--------------------------------|--------|-------|-------|--------|--------|
| Media CPU (%) | 6.880 | 6.717 | 6.838 | 6.684 | 6.813 |
| Desviación típica CPU (%) | 1.827 | 1.449 | 1.454 | 1.534 | 1.609 |
| Mínimo CPU (%) | 2.840 | 4.220 | 3.480 | 3.690 | 3.960 |
| Máximo CPU (%) | 11.130 | 9.790 | 9.970 | 10.580 | 11.310 |
| Mediana CPU (%) | 6.920 | 6.405 | 6.595 | 6.395 | 6.960 |
| Media Memoria (GB) | 1.527 | 1.532 | 1.535 | 1.538 | 1.539 |
| Desviación típica Memoria (GB) | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Mínimo Memoria (GB) | 1.525 | 1.531 | 1.533 | 1.536 | 1.538 |
| Máximo Memoria (GB) | 1.529 | 1.533 | 1.535 | 1.539 | 1.540 |
| Mediana Memoria (GB) | 1.527 | 1.532 | 1.535 | 1.538 | 1.539 |

Worker: Ray Worker 1

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|-------------|-------|-------|-------|-------|-------|
|-------------|-------|-------|-------|-------|-------|

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|--------------------------------|---------|---------|---------|---------|---------|
| Media CPU (%) | 128.161 | 185.678 | 133.432 | 130.261 | 184.891 |
| Desviación típica CPU (%) | 36.161 | 52.243 | 36.521 | 35.271 | 55.185 |
| Mínimo CPU (%) | 5.430 | 6.700 | 8.220 | 7.300 | 6.100 |
| Máximo CPU (%) | 202.350 | 207.730 | 203.690 | 198.040 | 212.570 |
| Mediana CPU (%) | 112.750 | 202.105 | 114.440 | 113.640 | 203.000 |
| Media Memoria (GB) | 4.310 | 5.150 | 4.272 | 4.330 | 5.170 |
| Desviación típica Memoria (GB) | 0.349 | 0.665 | 0.237 | 0.286 | 0.756 |
| Mínimo Memoria (GB) | 3.099 | 3.098 | 3.107 | 3.090 | 2.976 |
| Máximo Memoria (GB) | 4.693 | 5.757 | 4.492 | 4.606 | 5.878 |
| Mediana Memoria (GB) | 4.433 | 5.440 | 4.333 | 4.413 | 5.451 |

Worker: Ray Worker 2

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|--------------------------------|---------|---------|---------|---------|---------|
| Media CPU (%) | 179.021 | 119.726 | 192.516 | 190.266 | 132.655 |
| Desviación típica CPU (%) | 57.388 | 32.210 | 34.694 | 40.125 | 37.225 |
| Mínimo CPU (%) | 6.200 | 5.750 | 6.920 | 7.310 | 5.470 |
| Máximo CPU (%) | 209.260 | 192.800 | 208.370 | 207.520 | 197.370 |
| Mediana CPU (%) | 202.280 | 113.250 | 202.885 | 201.775 | 126.250 |
| Media Memoria (GB) | 4.815 | 4.146 | 5.145 | 4.832 | 4.015 |
| Desviación típica Memoria (GB) | 0.841 | 0.287 | 0.508 | 0.620 | 0.333 |
| Mínimo Memoria (GB) | 2.711 | 2.798 | 3.247 | 2.711 | 2.806 |
| Máximo Memoria (GB) | 5.530 | 4.415 | 5.681 | 5.459 | 4.327 |
| Mediana Memoria (GB) | 5.243 | 4.222 | 5.334 | 5.099 | 4.145 |

Worker: Ray Worker 3

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|---------------------------|---------|---------|---------|---------|---------|
| Media CPU (%) | 113.887 | 192.338 | 124.814 | 123.299 | 119.466 |
| Desviación típica CPU (%) | 26.045 | 36.055 | 32.997 | 31.683 | 35.906 |
| Mínimo CPU (%) | 6.380 | 5.600 | 8.020 | 5.050 | 5.580 |
| Máximo CPU (%) | 181.860 | 209.380 | 195.870 | 198.430 | 199.400 |

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|--------------------------------|---------|---------|---------|---------|---------|
| Mediana CPU (%) | 110.990 | 203.155 | 111.740 | 112.125 | 112.110 |
| Media Memoria (GB) | 4.265 | 5.343 | 4.303 | 4.343 | 4.316 |
| Desviación típica Memoria (GB) | 0.343 | 0.495 | 0.268 | 0.307 | 0.324 |
| Mínimo Memoria (GB) | 3.062 | 3.146 | 3.118 | 3.127 | 3.187 |
| Máximo Memoria (GB) | 4.548 | 5.876 | 4.512 | 4.598 | 4.617 |
| Mediana Memoria (GB) | 4.367 | 5.530 | 4.368 | 4.447 | 4.396 |

Worker: Ray Worker 4

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|--------------------------------|---------|---------|---------|---------|---------|
| Media CPU (%) | 191.032 | 191.486 | 186.837 | 182.536 | 187.280 |
| Desviación típica CPU (%) | 31.055 | 34.996 | 50.223 | 54.142 | 42.490 |
| Mínimo CPU (%) | 68.600 | 6.140 | 10.560 | 6.170 | 9.450 |
| Máximo CPU (%) | 208.160 | 208.870 | 206.520 | 207.190 | 211.150 |
| Mediana CPU (%) | 201.985 | 202.190 | 202.655 | 201.985 | 202.035 |
| Media Memoria (GB) | 5.077 | 5.004 | 4.948 | 4.928 | 5.086 |
| Desviación típica Memoria (GB) | 0.530 | 0.521 | 0.681 | 0.737 | 0.619 |
| Mínimo Memoria (GB) | 3.009 | 2.894 | 2.930 | 2.882 | 2.963 |
| Máximo Memoria (GB) | 5.732 | 5.552 | 5.566 | 5.585 | 5.606 |
| Mediana Memoria (GB) | 5.255 | 5.184 | 5.176 | 5.153 | 5.383 |

Worker: Ray Worker 5

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|--------------------------------|---------|---------|---------|---------|---------|
| Media CPU (%) | 186.333 | 127.472 | 192.135 | 190.402 | 190.870 |
| Desviación típica CPU (%) | 43.778 | 39.435 | 35.061 | 37.986 | 39.806 |
| Mínimo CPU (%) | 6.310 | 8.750 | 9.080 | 7.550 | 8.010 |
| Máximo CPU (%) | 207.920 | 203.890 | 209.010 | 207.600 | 210.320 |
| Mediana CPU (%) | 202.220 | 112.310 | 202.775 | 201.735 | 203.265 |
| Media Memoria (GB) | 5.054 | 4.181 | 5.187 | 5.025 | 5.009 |
| Desviación típica Memoria (GB) | 0.641 | 0.290 | 0.498 | 0.616 | 0.611 |
| Mínimo Memoria (GB) | 2.849 | 2.905 | 3.085 | 2.825 | 2.939 |

| Estadística | Run 1 | Run 2 | Run 3 | Run 4 | Run 5 |
|----------------------|-------|-------|-------|-------|-------|
| Máximo Memoria (GB) | 5.654 | 4.414 | 5.755 | 5.528 | 5.591 |
| Mediana Memoria (GB) | 5.318 | 4.278 | 5.348 | 5.299 | 5.236 |