## vSphere 5.5 ESXTOP quick Overview for Troubleshooting

| ESXTOP Command overview  | CPU c – Fields: D F  |   |   |
|--|--|---|---|
| For changing to the different views type:         m       Memory       i       Interrupts       v       Disk VM         c       CPU       d       Disk Adapter       p       Power states         n       Network       u       Disk Device       f       for add/remove fields  | <b>%USED:</b> CPU Core cycles used by a VM. High values are an indicator for VMs causing performance problems on ESXi Hosts.   | CPU load average for the last one, five and<br>15 minutes   | <b>%SWPWT</b> : Counter showing how long a VM has to wait for swapped pages read from disk. A reason for this could be memory overcommitment. Pay attention if %SWPWT is >5!  |
| <ul> <li>v show only virtual machine instances</li> <li>highlight a row scrolling down</li> <li>highlight a row scrolling up</li> <li>spacebar: refresh screen</li> <li>s 2: refresh screen every two seconds</li> </ul>   | PCPU UTIL(*):       13       12       36       11       29       56       41       64       4.3       4.5       AVG         NAME       \$USED       \$RUN       \$SYS       \$WAIT       \$VHWAIT       \$RDY         LABVN01       188.45       171.50       2.02       405.92       0.09       0.06         LABVN02       88.57       81.82       0.47       495.55       0.00       0.12       1         LABVN03       11.76       10.66       0.22       566.07       0.33       0.75       1         LABVN04       8.14       7.39       0.11       569.76       0.000       0.33       1 | 26         &IDLE &OVRLP       &CSTP       &MLNTD       &SUPUT         21.31       0.63       0.00       0.00       0.00         110.70       0.16       0.00       0.00       0.00         180.99       0.14       0.00       0.00       0.00         185.26       0.05       0.00       0.00       0.00  | <b>%MLMTD</b> : Counter showing percentage of time a ready to run vCPU was not scheduled because of a CPU limit setting. Remove the limit for better performance.   |
| Network       n – Fields: A B C D E F K L         %DRPTX, %DRPRX: Dropped Packages transmitted/Dropped Packages received.         Values larger 0 are a sign for high network utilization         PORT-ID UPLINK UP SPEED FDUPLX         USED-BY         TEAM-PNIC DNAME         \$DRPTX \$DRPRX   | <b>%SYS:</b> Percentage of time spent by system to process interrupts<br>and to perform other system activities on behalf of the world.<br>Possible cause: maybe caused by high I/O VM   |   | <b>%CSTP:</b> This value is interesting if you are using vSMP virtual machines. It shows the percentage of time a ready to run VM has spent in co-deschedule state.   |
| 16777218         Y         Y         1000         Y         vmnic0         -         vSwitch0         0.00         0.00           16777219         Y         Y         1000         Y         vmnic2         -         vSwitch0         0.00         0.00         0.00           33554508         N         -         -         1098259:         LABVM01         vmnic1         vSwitch1         0.00         0.00           33554509         N         -         -         1096171:         LABVM02         vmnic1         vSwitch1         0.00         0.00           Used-by/Team-PNIC:         provide information what         physical NIC a VM is actually using.         vsitch1         0.00         0.00  | <b>%VMWAIT</b> : percentage of time a VM was waiting for some VMkernel activity to c can continue. Includes %SWPWT and "blocked", but not IDLE Time (as %WAIT of Possible cause: Storage performance issue   latency to a device in the VM config pass-through device or parallel pass-through device  | womplete (such as I/O) before it does). <b>%RDY:</b> Percentage five and ten percentage five and ten percentage five and ten percentage Possible reasons: %MLMTD)   | ge of time a VM was waiting to be scheduled.If you note values between<br>nt take care.<br>too many vCPUs, too many vSMP VMs or a CPU limit setting (check  |
| Memory m – Fields: B D J K Q   |  | <b>Disk</b> d – Fields: A B G J   |   |
| MCTLSZ: Amount of guest physical memory (MB) the ESXi Host is reclaiming by balloon driver. A reason for this is memory overcommitment.       Memory Status:         Memory Status:         overcommitment.         Memory Status:         average memory overcommitment for the last one, five and 15 minutes         Memory 3' days 23:51, 402 worlds, 13 VHs, 18 VCPUs; MEM overcommit avg: 0.00, 0.00, 0.00         Memory 3' days 23:51, 402 worlds, 13 VHs, 18 VCPUs; MEM overcommit avg: 0.00, 0.00, 0.00         Memory 3' days 23:51, 402 worlds, 13 VHs, 18 VCPUs; MEM overcommit avg: 0.00, 0.00, 0.00         Memory 3' days 23:51, 402 worlds, 13 VHs, 18 VCPUs; MEM overcommit avg: 0.00, 0.00, 0.00         Memory 3' days 23:51, 402 worlds, 13 VHs, 18 VCPUs; MEM overcommit avg: 0.00, 0.00, 0.00         VMEM /ME: 05522 total: 1530 vmk, 44433 other, 19561 files         VMEM /ME: 05522 total: 1530 vmk, 44433 other, 19561 files         VMEM /ME: 000 colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         VMEM /ME: 000 colspan="2"         Superior of the state         VMEM /MEM /MEM /MEM /MEM /MEM /MEM /MEM  | mory available<br>by: Host reclaim memory by balloon driver<br>by: Host starts to swap, you will see performance troubles<br>by: ESX stop the VMs to allocate more RAM<br><b>ZIP/s:</b> Values larger 0 indicate that the host is<br>actively compressing memory.<br><b>UNZIP/s:</b> Values larger 0 indicate that the<br>host is accessing compressed memory.<br>Reason for this behaviour is memory<br>overcommitment.   | DAVG: Latency at the device driver level         Indicator for storage performance         Indicator for storage performance         Image: State of the device driver level         Image: State of the device driver         Image: State of the device driver< | S/s: Commands aborted per second         storage system has not responded within 60 seconds VMs with an two Operating System will issue an abort.         VHs, 18 vCPUs; CPU load average: 0.12, 0.12, 0.14         OVG/cmd FCNDS/s FREAD/s FURITE/s FNBRD/s FNBUR/s FRESU/s ABRIS/s FREAD/s FNBLR/s FRESU/s ABRIS/s FREAD/s FNBLR/s F |
| 949815 LABVW06 0.00 0.00 2495.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0  | (in MB) compressed by ESXi Host  | NUMA m (change to memory view) – I  | Fields: D G   |
| Possible cause: memory overcommitment.       Image: Contractory (in wid) completised by LOX Host         SWR/s, SWW/s: Rate at which the ESXi Host is writing to or reading from swapped memory. Possible cause: memory overcommitment.         Image: memory overcommitment.      < |  | NMN: Numa Node where the VM is located  | AL: Percentage of VM Memory located at the local NUMA Node. If this lue is less than 80 Percent the VM will experience performance issues.  |