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The easiest way to determine load in CM is to use Online Information. They offer data immediately after C-Monitor client's installation, without any configuration. However, they cannot be used to notify overload (that is a job for Watches). Data in Online information are available for C-Monitor client licenses types Standard and Premium, archived for the past 48 hours in 30sec up to 3min intervals, according to the type of license and length of the "long interval" and types of the displayed data are slightly different for different platforms (Windows, Linux/FreeBSD, MacOS).

Skip to : Entry to view the current (recent) state Data history to CPU, RAM, HDD in graphs Load of network cards Load of CPU+RAM by a concrete process Load of internet transfers by a specific process/program View of history in a table form Annex : List of Online information parameters for different platforms (Windows, Linux/FreeBSD, MacOS).

Entry to view the current (recent) state

The current state, as well as history for the past 48 hours of usage of the server can be viewed in CM Portal, in the section *Presentation and evaluation -> left menu Online information*. After clicking on the link History or directly on the computer's CM-ID, the history of Online information will be displayed.

	A desire a loss	Prehliadanie a	Contrast Data	Operator: Parvol Parkevsč
	Admin zona	Vyhodnotenie	Customer Desk	
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- Upozornenia	Systemovel sóny	Spotočnosť	Polital & the PoulSwater	
Poruchy	Online Information	Descriptor	Zaradž rozla (MD) a Zaradžata Vestore a Histor Rozlinené	
História ponúch	Construction 121	Tes	Zahredi ndra zatad antitala III an antisa antitala	
Poruchy na počítačech		-		
Zobrazenia	Zóna Online Informácie	[zobrazená 1 položka]	klinutim na meno servera zobrazi hetória vydzila Wil prostriedkov	
Zány	Sekcia	Parameter	1. PSTSV03	
Watches (Online monitoring)		Show	History Historyan	
Počítače		Network Name	58A	
Online Informácie		User		
Internet bandwidth monitor		Current Login	D0M32A4ministratur	
Zmeny na počítači		Location	radiavý rům	
Foto dokumentácia		Phone	02 4564 0582	
		Online connection	29. Mar 2012 14:33-12	
Manazerske informacie		Remote Access	a 🕫	
Reporty		Global ip	217.123.456.789	
Prenesene data na ADGL a FW		Computer uptime	1 days 20:19:15	
	Logged users	User 1	SOME24-demostrator - ADMINISTRATION	
	System usage	Cpu system usage	4%	
		Cpu kernel usage	15	
		Nemory usage	52.5	
		Disk activity	15%	
		Disk avg read queue	0	
		Diak avg write queue	0	
	Descenses by one	Descars d	solsene ees (40.5.)	
	constraints of the	Process 2	C-Drowson Files (additionant) 501 Server(MS501 4085501 (Rev(aniagram are (0.5))	

Image: Online informácie zo servera

Data history to CPU, RAM, HDD

In a zone's history is defaultly displayed the course for the past 3 hours, the displayed time may also be adjusted. There are transparent graphs showing the standard usage of the Processor (or System), usage of physical RAM, disk activity, average value of waiting requests from the queue to read or



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write to disk. The graph may as well be printed by clicking on Print graph



Image: Štandardné zobrazenie zaťaženia

Under the first graph, there's an option to create other graphs. These are for usage of the network card, CPU and RAM, load of internet transfers.

Load of network cards

You can either choose the total transfer speed through all network cards, or you just select one.



Image: Zvolenie sieťovej karty

the result will be a graph with download/upload transfers:



View of load (overload) of a computer through Online in

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Image: História vyťaženia sietovej karty

Load of CPU+RAM by a concrete process

another of the graphs is the one for load of the server's CPU and RAM by a concrete process. Choose the process in the field CPU and Memory usage :

```
-- CPU and MEMORY usage --
C:\CMonitor\Monitor.exe (CPU)
C:\CMonitor\modules\backup\BackupPlus.exe (CPU)
C:\Program Files (x86)\Microsoft SQL Server\MSSQL.1\MSSQL\Binn\sqlservr.exe (CPU)
InoTask.exe (CPU)
TrustedInstaller.exe (CPU)
c:\program files (x86)\teamviewer\version5\TeamViewer_Desktop.exe (CPU)
csrss.exe (CPU)
dllhost.exe (CPU)
explorer.exe (CPU)
igateway.exe (CPU)
Isass.exe (CPU)
services.exe (CPU)
sqlservr.exe (MEM + CPU)
svchost.exe (CPU)
taskmgr.exe (CPU)
vmtoolsd.exe (CPU)
-- CPU and MEMORY usage --
                                                                                              Ŧ
```

Image: Zvolenie konkrétneho procesu

The result will be a graph with history of just the selected process:



View of load (overload) of a computer through Online in

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Image: Graf zaťaženia konkrétnym procesom

Load of internet transfers by a specific process/program

(note : so far available only for WIN32 systems)

The last graph is history of usage of the internet line by a specific program:



Image: Zaťaženie internetovej linky konkrétnym programom

after selecting the concrete program, the result will be a graph of download and upload via this program



View of load (overload) of a computer through Online in Published on Customer Monitor

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Image: Graf zaťaženia internetovej linky konkrétnym programom

View of history in a table form

A highly unique feature is the view of Online information in a table form. Each sample is saved to the database with complete data, and therefore you can find out what was the usage of CPU, RAM by the most burdening processes two days ago, as well as what was the public IP address, which local IP addresses were active, transfers on network adapters, what was the internet transfer (note: the data vary according to the type of platform, see the last point of this page).

The view can be switched to table by pressing *Show table* in the top right section of the screen with history (graphs). To re-display the graph, press Show graph. The table with the values can be exported directly to Excel by clicking on the small excel icon in the top right of the screen.

História zóny: Onli	ine Informácie							
Zobraziť	od 29.3.2012 08:00	do 29.03.2012 08:15	Vytvorené na počítači	•	Zobraziť	Zobraziť tabuľku	Zobraziť	Zobrazit'graf

Image: Zmena zobrazenia graf/tabuľka

The table form view may look something like this (the preview doesn't contain all available data, which are selected in the line above the table's Legend) :



View of load (overload) of a computer through Online in Published on Customer Monitor

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História zóny: Online Informácie											•	
Zobraziť od 29.03.2012.08.09 do 29.03.2012.08.15 Vytvorené na počísou • Zobraziť Zobraziť graf												
Počitač SEANB02 - NP6930P - Pavol Paškevič - SEAL IT Services, s.r.o. (PREMIUM licencia)												
🗈 Logged users 😰 System usage 😨 Processes by cpu 😰 Processes by memory 💼 Internet traffic avg speed in last 30s 📄 Local ip 1 📄 Local ip 2												
Legenda: stané odobané znevené												
				System usage						sses by cpu	Processes by memory	
Date & time	Global ip	Computer uptime	Cpu system usage	Cpu kernel usage	Memory usage	Disk activity	Disk avg read queue	Disk avg write queue	Process 1	Process 2	Process 1	Process 2
29. Mar 2012 08:12:49	85.216.177.184	3 days 00:12:18	10 %	475	52 %	4%	0	0	C:Program Files/Mozilla Firefox/firefox.exe (10 %)	C:Windowsisystem32 Wwm.exe (3 %)	SYSTEM (MB)	C:/Program Files/Mezilla Firefox/firefox.exe (173 MB)
29. Mar 2012 08:09:46	85.216.177.184	3 days 00:09:15	12 %	5%	Uložené do CM 29. Mar 2012 08:12:49 Vytvorené na PC 29. Mar 2012 08:12:49			49 249	C:Program Files/Mozilla Firefox/firefox.cxe (13 %)	C-Program FilesMozilla Finefox/plugin-container.exe (4.%)	SYSTEM (MB)	C.Program Files/Mozilia Firefox/firefox.exe (172 MB)
29. Mar 2012 08:08:39	85.216.177.184	3 days 00:06:08	22 %	8 N	60 %	23 %	0	0	C:Program Files/Mozilla Firefcx:firefcx.exe (26 %)	C:Program Files/Mozilla Finefox/plugin-container.exe (7 %)	SYSTEM (MB)	audiodg.exe (MB)
29. Mar 2012 08:03:32	85.216.177.184	3 days 00:03:01	10 %	3%	58 %	1%	0	0	C1Program Files/Mozilla Firefox/firefox.exe (22 %)	C:Windows\aysten32 \Dwm.exe (0 %)	SYSTEM (MB)	audiodg.exe (MB)
29. Mar 2012 08:00:31	85.216.177.184	3 days 00:00:00	11.%	5 %	55 %	5 %	0	0	C:\Program Files\Mozilla Firefco:\firefco:.exe (13	C:Windowsisystem32 Wwm.exe (1 %)	audiodg.exe (MB)	SYSTEM (MB)

Image: Zobrazenie v tabuľke

Annex : List of Online information parameters for different platforms (Windows, Linux/FreeBSD, MacOS)

Windows :

Global IP - Public IP address, from which communication from C-Monitor is iniciated **Computer uptime** - Uptime of the computer

CPU System usage, CPU Kernel Usage - Loads of the CPU

Processes by CPU - 2 most burdening processes of the processor

Memory usage - Load of the physical RAM

Processes by Memory - 2 most burdening processes of RAM (note : on 64bit OS the used size is so far not shown in MB)

Disk activity - Average load of all disks in the system in percent

Disk avg read queue - Average number of requests for reading from the disk (Premium license only)

Disk avg write queue - Average number of requests for writing on the disk (Premium license only) **Local IP x** - IP addresses of active network adapters, giving the adapter's name, default gateway ... **Avg down speed in last 30s, Avg Up speed in last 30s** - upload a download speed of all communication on active network adapters

Internet traffic avg speed in last 30s - upload a download communication speed just on the internet on active network adapters

Linux/FreeBSD

Global IP - Public IP address Computer uptime - Uptime of the computer Cpu total usage, Cpu kernel usage - Overall load of CPU, kernel Load avg 5 min - coefficient of average load, ideally when it's < 1 * number of CPU Processes by cpu - 2 most burdening processes of the processor Memory usage - Obsadenie fyzickej RAM Processes by memory - 2 procesy s najväčším obsadením v RAM Disk activity - Load of diak in percent to a concrete disk, which was used the most (Disk) Disk read - reading transfer speed of the most burdened disk (Premium license only) Disk write - writing transfer speed of the most burdened disk (Premium license only) Swap usage - usage of the swap space in MB from the total size of swap



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Local IP x - IP addresses of active network adapters, giving the adapter's name, default gateway ... Avg down speed in last 30s, Avg Up speed in last 30s -upload a download speed of all communication on active network adapters

MacOS

Global IP - Public IP address Computer uptime - Uptime of the computer Cpu total usage, Cpu kernel usage - Overall load of CPU, kernel Load avg 5 min - coefficient of average load, ideally when it's < 1 * number of CPU Processes by cpu - 2 most burdening processes of the processor Memory usage - Obsadenie fyzickej RAM Processes by memory - 2 procesy s najväčším obsadením v RAM Disk activity - Load of diak in percent to a concrete disk, which was used the most (Disk) **Disk read** - reading transfer speed of the most burdened disk (Premium license only) **Disk write** - writing transfer speed of the most burdened disk (Premium license only) Swap usage - usage of the swap space in MB from the total size of swap Date:

02/05/2012Images:



Links

[1] https://www.customermonitor.co/sites/default/files/1 3.png

- [2] https://www.customermonitor.co/sites/default/files/2 2.png
- [3] https://www.customermonitor.co/sites/default/files/4 0.png
- [4] https://www.customermonitor.co/sites/default/files/6 0.png
- [5] https://www.customermonitor.co/sites/default/files/5 1.png
- [6] https://www.customermonitor.co/sites/default/files/7_0.png
- [7] https://www.customermonitor.co/sites/default/files/8 0.png
- [8] https://www.customermonitor.co/sites/default/files/9_0.png
- [9] https://www.customermonitor.co/sites/default/files/10 0.png

[10] https://www.customermonitor.co/sites/default/files/11 0.png