

IMPLEMENTATION OF DESKTOP VIRTUALISATION

I have successfully implemented desktop virtualization by taking the help Manage-Engine Desktop Central as a tool. It is integrated desktop and mobile device management code that helps in managing servers, computers, etc. from a central location.

It supports managing Windows, Mac and Linux system operating systems.

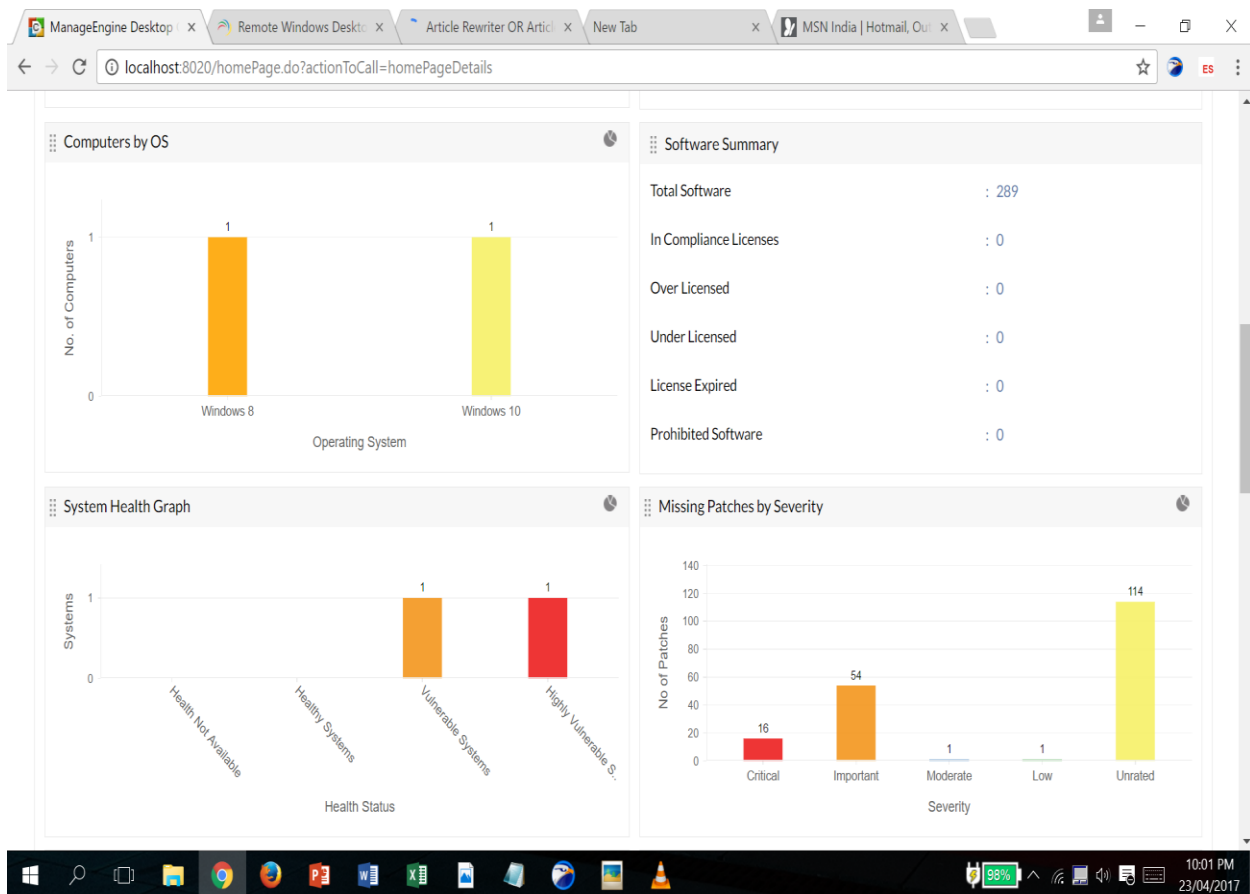
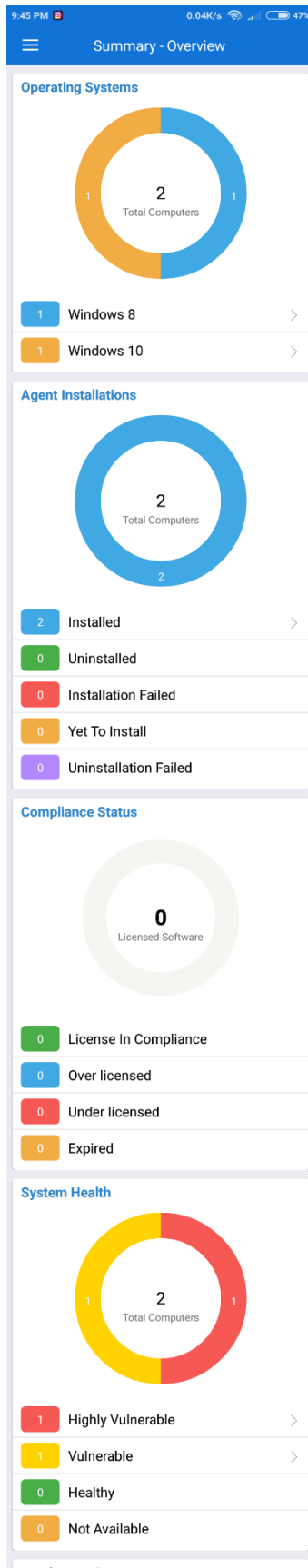


Figure- On successful connection for two devices

Here we get graphs for all the devices successfully connected and for the no. of Operating Systems for each devices and then combining devices having same operating systems. And for other system conditions like system health and for missing patches by severity of the problem.



1. Desktop Central Mobile App

Desktop Management is not any a lot of employment that holds you to be back on your seat. you'll be able to currently begin managing your desktops and servers from anyplace, any time, and playacting activities like putting in agent on a replacement laptop, to retiring computers from the network. Desktop Central's mobile app, are often wont to manage Windows, Mac and Linux computers.

We can manage our mobile devices to deploy profiles and policies, piece devices for wireless fidelity, VPN, Email accounts, etc., apply restrictions on exploitation camera, browser, etc., and to secure your devices like sanctioning passcode, remote lock/wipe, etc. Also we can manage all of your iOS, golem and Windows smartphones and tablets.

This feature of Desktop Central for mobile applications is very useful to control all the devices connected in it and to check their status while you are on-the-go. We can also control the devices hence saving resources to manually operate to do processes like shutdown and switching on.

We can check the status of the different software to check their licence and their security issues ,with each software and to remote control their issues. We can also check for energy consumption by each system and can check if any system is having any malfunction.

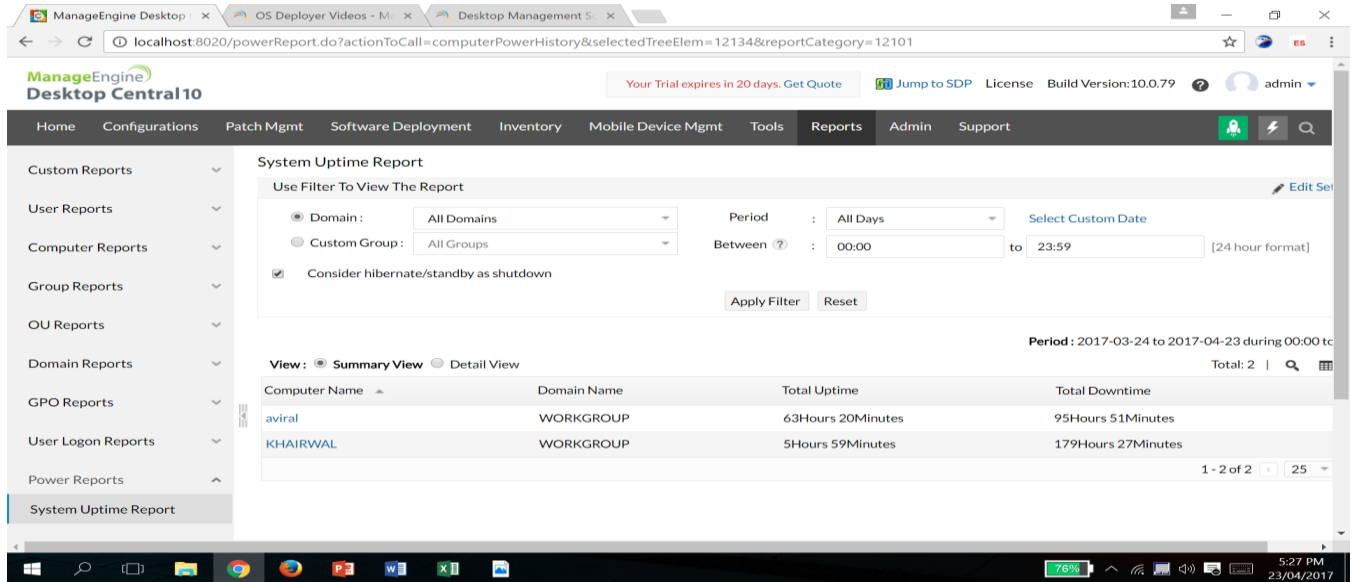
Moreover, it reduces the overall cost of reaching each system and manually operate them using any Android or iOS device from anywhere around the place. Here we can also check the health of all components of the system in all aspects of hardware and software of the system.

In the left side, I have attached a screenshot of the application installed in my mobile to check the status of my two devices connected with the Android application.

We can download the Desktop Central mobile app from the App/Play Store. Desktop Central's mobile app is now available for both iOS and Android devices. We can access the features in the mobile app, by the role and permissions assigned for every user. For example, if a user has read only role in Desktop Central, his access using the app will remain the same.

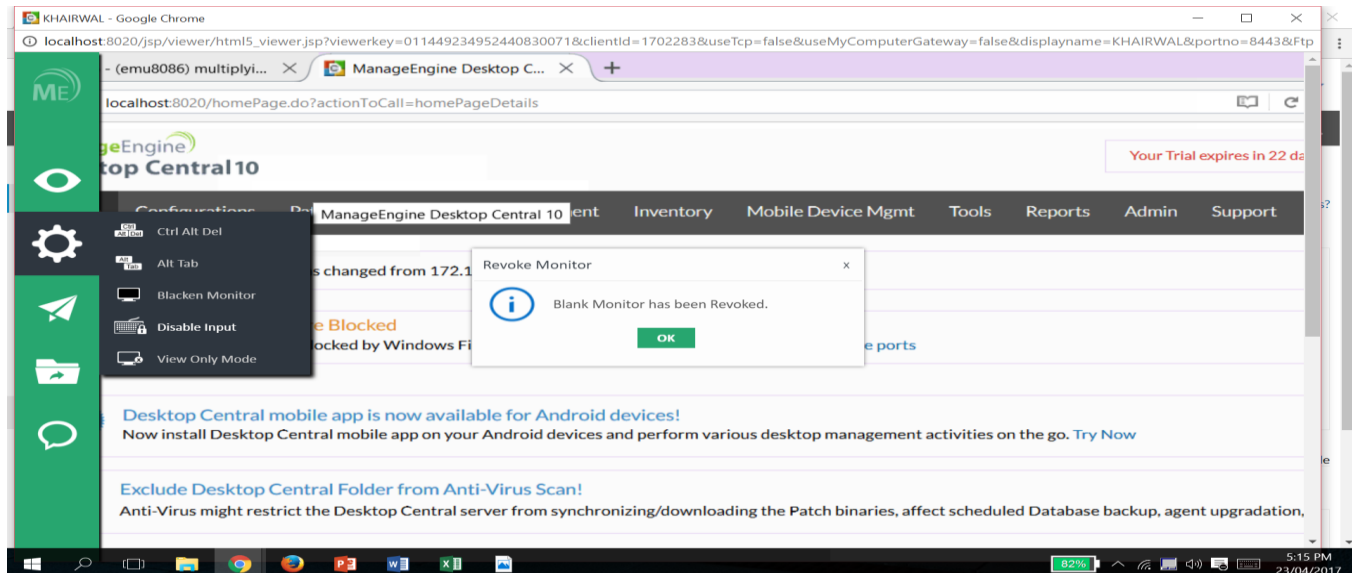
2. ENERGY EFFICIENCY TRACKING IN THE SOFTWARE

Here we can make use of the feature of the software to track the total uptime and downtime of the systems attached, so that we can generate a graph for the total energy saved by the client computers in this process.



In the above scenario, we have calculated the total uptime of the server computer(aviral) to the total uptime of client computer(KHAIRWAL) and can clearly see the difference.

The server computer has to work for more than 10 times so that to compensate the client computer, but in the process we can save the energy of one computer. So subsequently we can reduce more amount of energy if we connect more devices. This leads to higher downtime of client computer in order to save energy of client computer.



We can also save energy by closing the monitor and its input by enabling Remote Control and selecting Blacken Monitor and Disable input. This helps in saving energy used by the system for using Monitor , Keyboard, mouse, touch pad and other input devices. This helps in decreasing energy consumption by significant amount by each system and then we can end up in saving lots of energy used by many systems , which would be responsible for better Green Services as a result.

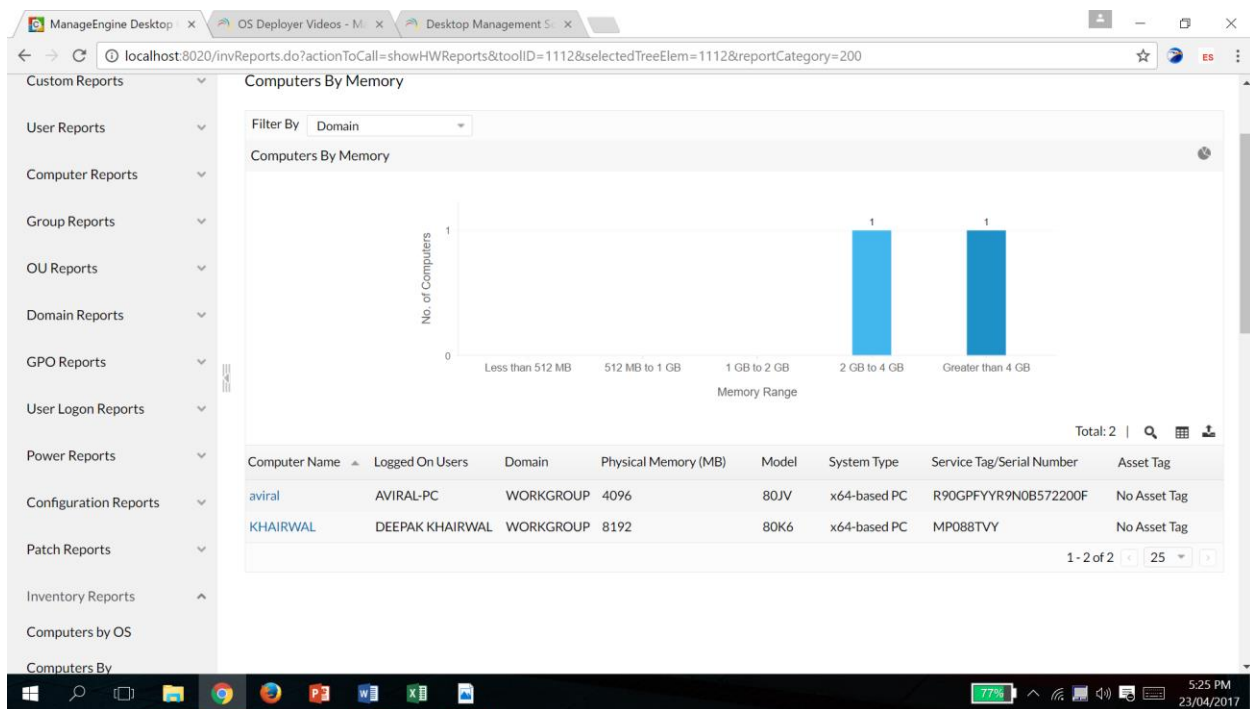
We can therefore save large amount of energy by using these features.

3. MEMORY MANAGEMENT

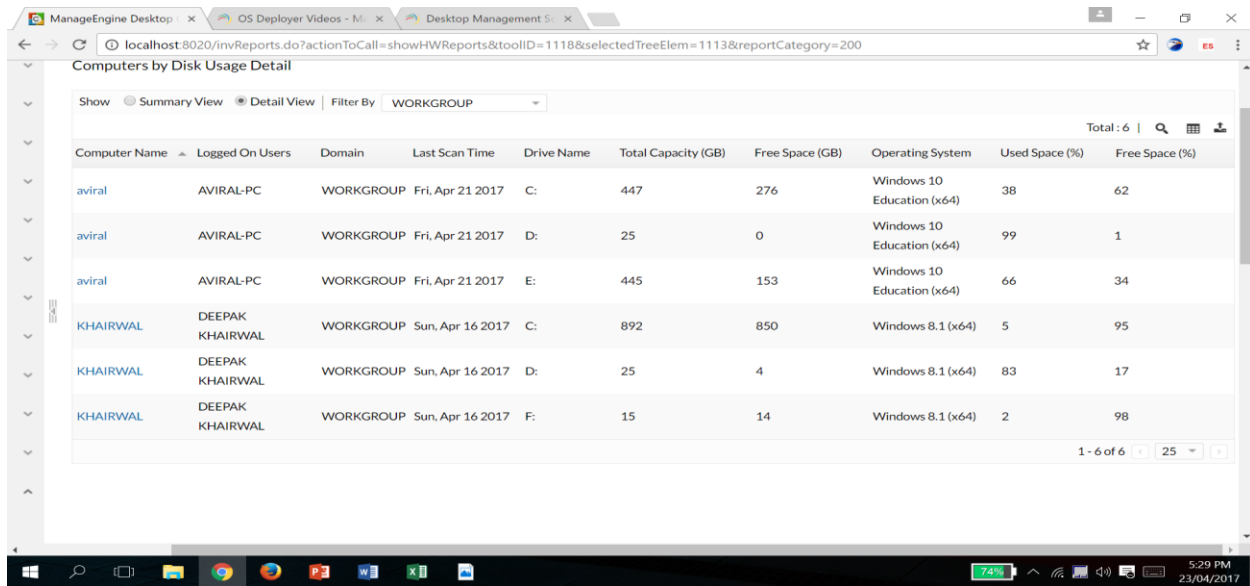
Memory Management is the process of efficiently using storage power and combining un-utilised resources for better performance of system. Memory can shared among devices having different storage capacities for RAM and ROM.

Below is the form of implementation to show capacity of different systems connected

1. In terms of RAM.



2. In terms of ROM(free space and total capacity)

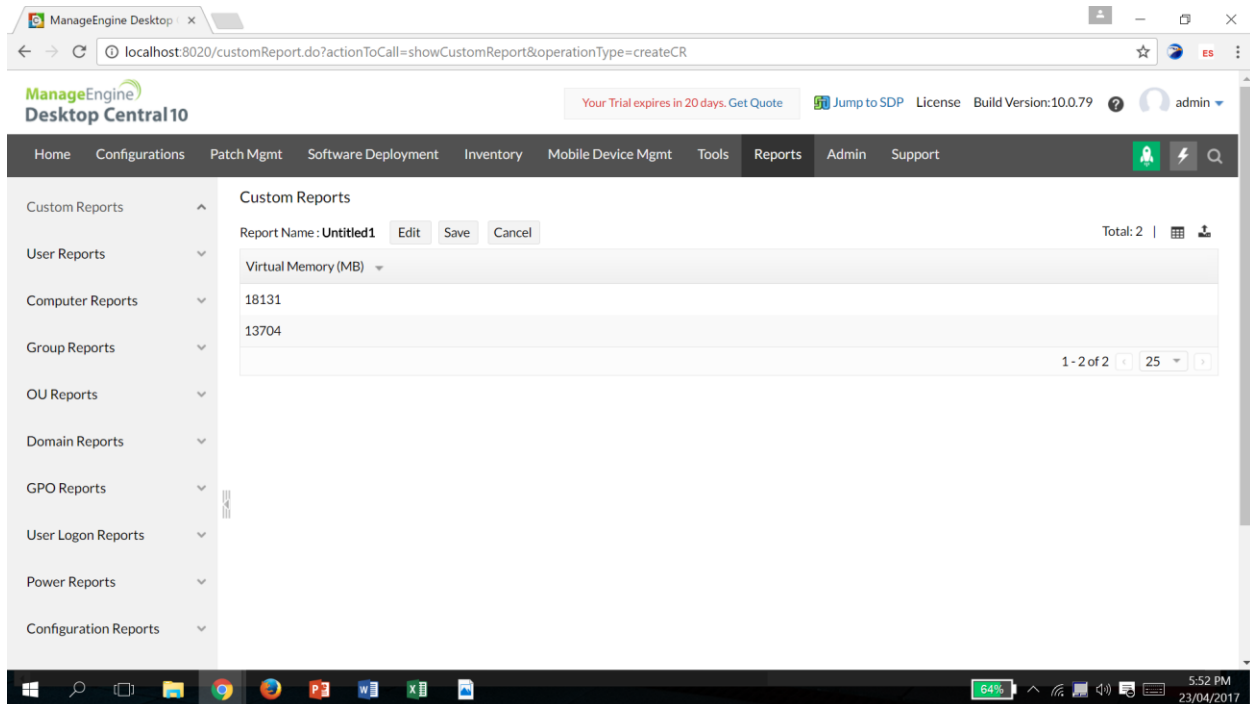


The screenshot displays the 'Computers by Disk Usage Detail' report in the ManageEngine Desktop Central interface. The report is filtered by 'WORKGROUP' and shows details for six computers. The table includes columns for Computer Name, Logged On Users, Domain, Last Scan Time, Drive Name, Total Capacity (GB), Free Space (GB), Operating System, Used Space (%), and Free Space (%).

Computer Name	Logged On Users	Domain	Last Scan Time	Drive Name	Total Capacity (GB)	Free Space (GB)	Operating System	Used Space (%)	Free Space (%)
aviral	AVIRAL-PC	WORKGROUP	Fri, Apr 21 2017	C:	447	276	Windows 10 Education (x64)	38	62
aviral	AVIRAL-PC	WORKGROUP	Fri, Apr 21 2017	D:	25	0	Windows 10 Education (x64)	99	1
aviral	AVIRAL-PC	WORKGROUP	Fri, Apr 21 2017	E:	445	153	Windows 10 Education (x64)	66	34
KHAIRWAL	DEEPAK KHAIRWAL	WORKGROUP	Sun, Apr 16 2017	C:	892	850	Windows 8.1 (x64)	5	95
KHAIRWAL	DEEPAK KHAIRWAL	WORKGROUP	Sun, Apr 16 2017	D:	25	4	Windows 8.1 (x64)	83	17
KHAIRWAL	DEEPAK KHAIRWAL	WORKGROUP	Sun, Apr 16 2017	F:	15	14	Windows 8.1 (x64)	2	98

3. In terms of Virtual Memory of different systems

These memory can be combined to get better performance of the entire network of systems.



The screenshot displays the 'Custom Reports' interface in the ManageEngine Desktop Central application. The 'Report Name' is 'Untitled1'. The 'Virtual Memory (MB)' section shows two values: 18131 and 13704. The interface includes a sidebar with various report categories and a top navigation bar with options like Home, Configurations, Patch Mgmt, Software Deployment, Inventory, Mobile Device Mgmt, Tools, Reports, Admin, and Support.

Report Name	Virtual Memory (MB)
Untitled1	18131
Untitled1	13704

4. SOFTWARE DEPLOYMENT

Deploying software system to multiple systems manually may be a time intense task, particularly once IT admin should perform software system preparation as a vicinity of desktop management routine. Also, performing arts tasks like software system installation and uninstallation/deletion while not an automatic software system involves complications that may consume the time of an IT administrator with its effort and time.

Desktop Central grants the IT admin is to use, distribute, install, update and uninstall software system applications which can be remotely be similar as well as mechanically same.

Computers by Device Type


Filter By


Domain


Computer Type

All

Total: 2







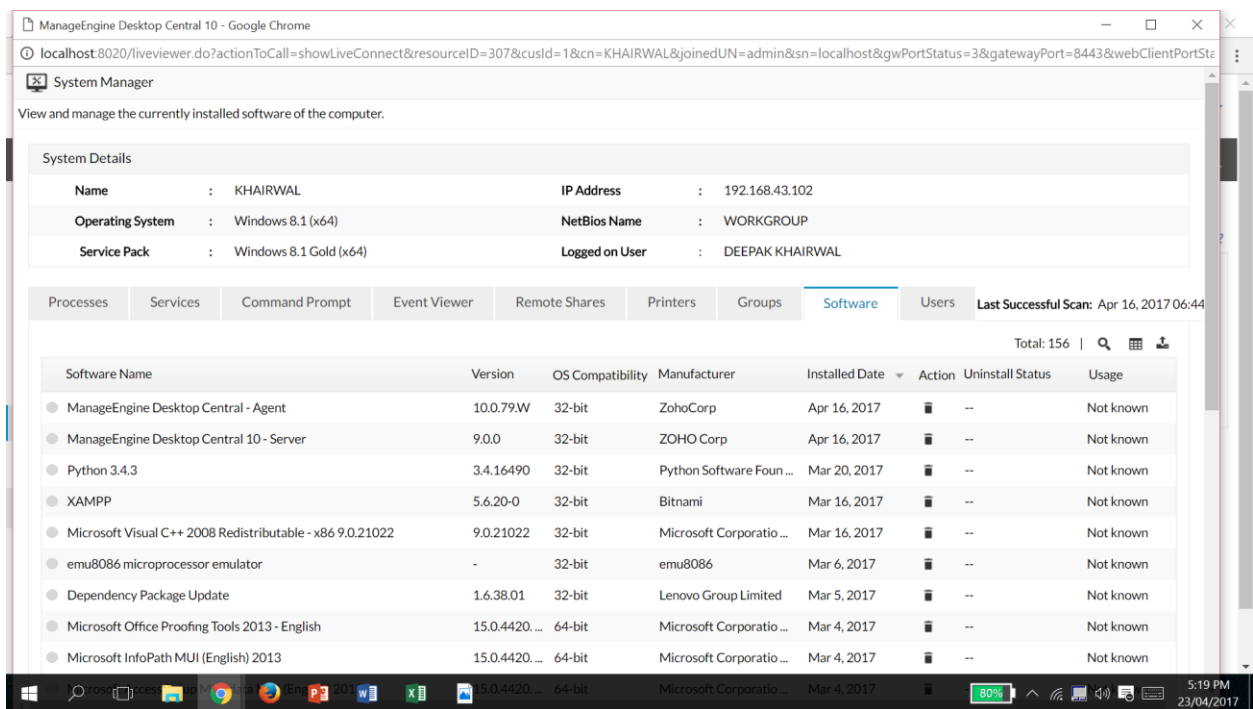
Computer Name	Logged On Users	Domain	Computer Type	Model	System Type	Service Tag/Serial Number	Asset Tag
aviral	AVIRAL-PC	WORKGROUP	NoteBook	80JV	x64-based PC	R90GPFYYR9N0B572200F	No Asset Tag
KHAIRWAL	DEEPAK KHAIRWAL	WORKGROUP	NoteBook	80K6	x64-based PC	MP088TVY	No Asset Tag

1 - 2 of 2

25

Installation method for Software Deployment

Desktop Central's package readying for Windows helps increasing the administrator's productivity by supporting remote MSI & EXE software/application readying. Desktop Central will mechanically install MSI & EXE package to users or computers at a scheduled time. Also, Desktop Central supports package installation to users and computers or mass installation to OUs, Domains and Sites.



The screenshot shows the "System Manager" interface in Desktop Central. It displays system details for a client named "KHAIRWAL" with IP address "192.168.43.102". The operating system is "Windows 8.1 (x64)" and the service pack is "Windows 8.1 Gold (x64)". The logged on user is "DEEPAK KHAIRWAL". Below the system details, there are tabs for "Processes", "Services", "Command Prompt", "Event Viewer", "Remote Shares", "Printers", "Groups", "Software", and "Users". The "Software" tab is selected, showing a list of installed software with columns: Software Name, Version, OS Compatibility, Manufacturer, Installed Date, Action, Uninstall Status, and Usage. The list includes "ManageEngine Desktop Central - Agent", "ManageEngine Desktop Central 10 - Server", "Python 3.4.3", "XAMPP", "Microsoft Visual C++ 2008 Redistributable - x86 9.0.21022", "emu8086 microprocessor emulator", "Dependency Package Update", "Microsoft Office Proofing Tools 2013 - English", and "Microsoft InfoPath MUI (English) 2013".

System Details	Name	IP Address	Operating System	NetBios Name	Service Pack	Logged on User
	KHAIRWAL	192.168.43.102	Windows 8.1 (x64)	WORKGROUP	Windows 8.1 Gold (x64)	DEEPAK KHAIRWAL

Software Name	Version	OS Compatibility	Manufacturer	Installed Date	Action	Uninstall Status	Usage
ManageEngine Desktop Central - Agent	10.0.79.W	32-bit	ZohoCorp	Apr 16, 2017	🗑️	--	Not known
ManageEngine Desktop Central 10 - Server	9.0.0	32-bit	ZOHO Corp	Apr 16, 2017	🗑️	--	Not known
Python 3.4.3	3.4.16490	32-bit	Python Software Foun...	Mar 20, 2017	🗑️	--	Not known
XAMPP	5.6.20-0	32-bit	Bitnami	Mar 16, 2017	🗑️	--	Not known
Microsoft Visual C++ 2008 Redistributable - x86 9.0.21022	9.0.21022	32-bit	Microsoft Corporatio...	Mar 16, 2017	🗑️	--	Not known
emu8086 microprocessor emulator	-	32-bit	emu8086	Mar 6, 2017	🗑️	--	Not known
Dependency Package Update	1.6.38.01	32-bit	Lenovo Group Limited	Mar 5, 2017	🗑️	--	Not known
Microsoft Office Proofing Tools 2013 - English	15.0.4420...	64-bit	Microsoft Corporatio...	Mar 4, 2017	🗑️	--	Not known
Microsoft InfoPath MUI (English) 2013	15.0.4420...	64-bit	Microsoft Corporatio...	Mar 4, 2017	🗑️	--	Not known

Here I can manage client's software in the server computer to be used on any access medium.

