

features



- Hardware Independent Imaging
- Repair
- Disaster Recovery
- Secure Hard Drive Wipe
- OS Migration
- Software Deployment



server requirements

- 2 gigahertz (GHz) 2-core processor minimum (4-core or more recommended)
- 8 gigabyte (GB) RAM minimum (16 GB or more recommended)
- 80 GB of free space minimum (150 GB free space recommended)
- Windows Server 2012 or 2016
- Microsoft .NET Framework 4.5 minimum
- SQL Server 2012 / 2014 / 2016 / 2017 Express with Management Studio
- Microsoft Internet Information Services 6.0 or higher role installed and configured.
- Network interface card, Network connection, and Internet access
- Windows ADK 10: https://go.microsoft.com/fwlink/p/?linkid=859206
- Windows Deployment Server role installed and configured
- Crystal Report Plugin: http://www.utopicsoftware.com/downloads/CRRedist2008_x64.zip



pre-requisites

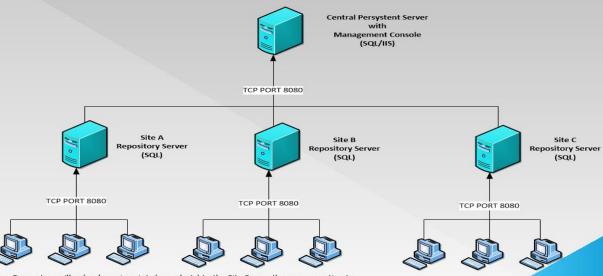


- Create a service account to be used for Persystent Suite services to access the databases.
- Create an AD group for users who will have access to the WebUI to manage computers.
- Open TCP port (Default 8080) for client server communication.
- Configure external IP support for communication with client machines outside of LAN.



network diagram

Persystent Suite Network Diagram



- Computers will upload repair points (snapshots) to the Site Server they are reporting to.
- Computers will poll the site server to get new policy and schedule information based on defined polling interval (Default policy is every 30 minutes).
- Management console will be used to manage all Site Server and Computers.
- TCP port 8080 is default and can be changed at the time of Persystent Server install.







Master/Single Server Setup

- Database Install
- Server Install
- WebUI Install
- Child Server Setup
 - Database Install
 - Server Install





master server installation

Prerequisites Installs





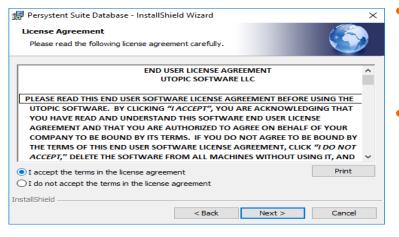
- Install IIS Role.
- Install Windows 10 ADK
- Install Crystal Report Plugins
- Install WDS role for PXE support. Configure IP Helper statements for booting PXE over different subnets.

master server installation

Server Configuration

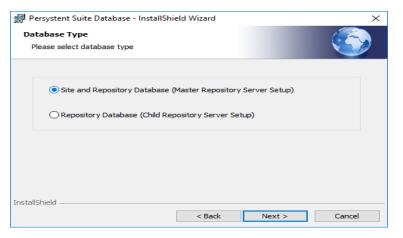
- Configure SQL service to start with LocalSystem account.
- Create a service account for Persystent Server.
- Add service account to Administrators group on the Persystent Server.
- Add service account to SQL and assign access to Persystent databases.
- Create AD group for users to manager computers through Persystent WebUI.
- Add users to AD group.
- Create firewall rule to allow Persystent port to communicate through firewall on the Persystent Server.





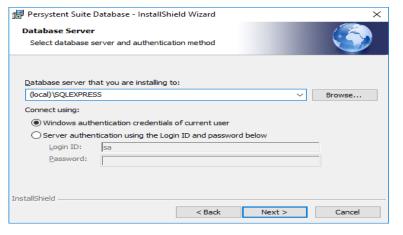
- Run Persystent Suite Database Setup.exe.
- On the *Persystent Suite Database InstallShield Wizard Welcome* page, click *Next*.
- On the *Review License Agreement* page, read the license agreement carefully and click I accept the terms in the license agreement, and then click *Next*.





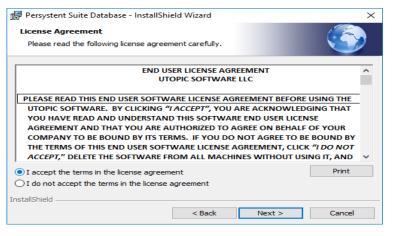
- On the Destination Folder page, verify the install folder and change if necessary.
- On the Database Type page, select the Site and Repository Database (Master Repository Server Setup).





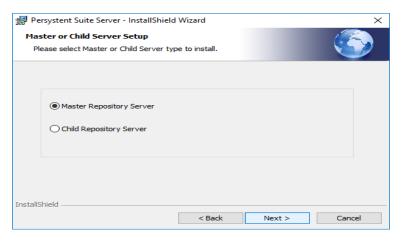
- On the *Database Server* page, select the database instance where the databases are to be installed. Click *Next*.
- On the Ready to Install the Program page, click Install.
- On the InstallShield Wizard Completed page, click Finish.





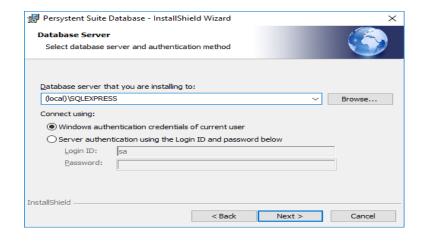
- Run Persystent Suite Server Setup.exe.
- On the Persystent Suite Server—
 InstallShield Wizard Welcome page, click
 Next.
- On the Review License Agreement page, read the license agreement carefully and click I accept the terms in the license agreement, and then click Next.





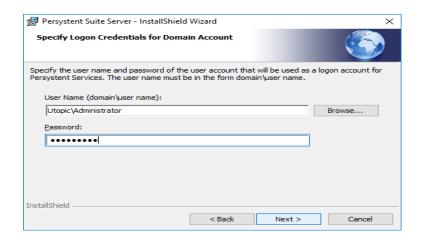
- On the *Destination Folder* page, verify the install folder and change if necessary.
- On the Master or Child Server Setup, select the Master Repository Server option





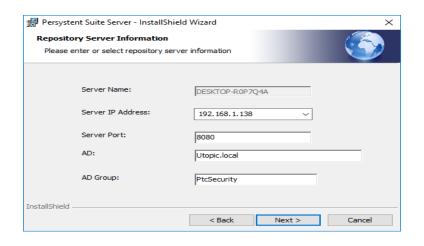
 On the Site Database Server page, click Browse, and select the database server to install to, then click OK





 On the Specify Logon Credentials for Domain Account page, specify the user name and password of the user account that will be used as a logon account for the Persystent Suite Service, and then click Next.





 On the Repository Server Information page, accept or change the prefilled information, and then click Next.





- The Server Name box is prefilled with the local server. This server name will be used for the Persystent Suite Shared Repository Server.
- The Server IP Address list will display the IP addresses of all network interface cards (NICs) present. If multiple NICs are present, select the NIC to use for Persystent Suite Server from the list.
- The Server Port box is prefilled with 8080; if this port is in use by your system, type an available port value in the box. This port is used by Persystent Repository Service to communicate with Persystent Client machines.





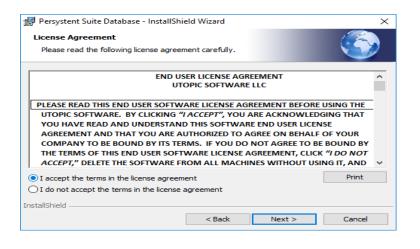
- Persystent Server is part of the domain. This will be used for authenticating users who can perform imaging and secure wipe. You can blank out this field if you do not want to use AD authentication.
- The AD Group box will be filled with default AD group PtcSecurity if the Persystent Server is part of the domain. You can change this group to any other AD group that you would like to use.





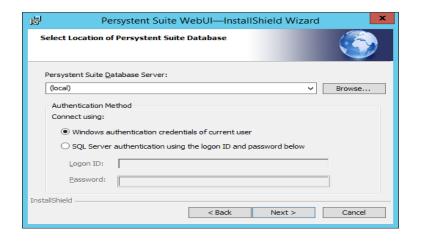
- On the Ready to Install the Program page, click Install.
- On the InstallShield Wizard Completed page, click
 Finish.





- Run Persystent Suite WebUI Setup.exe.
- On the Persystent Suite WebUI—
 InstallShield Wizard Welcome page, click
 Next.
- On the Review License Agreement page, read the license agreement carefully and click I accept the terms in the license agreement, and then click Next.





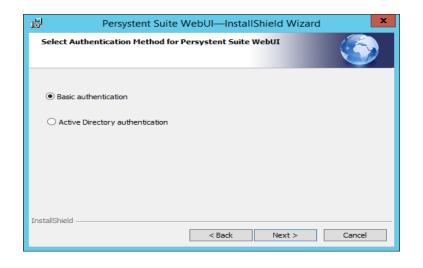
- On the *Destination Folder* page, verify the install folder and change if necessary.
- On the Select Location of Persystent
 Suite Database page, select the
 database instance where Persystent
 database is installed.





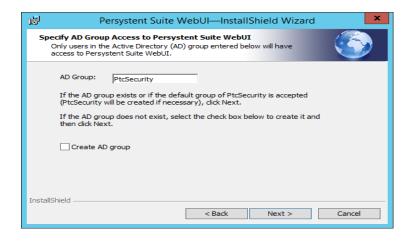
 On the Select Authentication Method for Persystent Suite WebUI page, select an authentication method, and then click Next.





• On the Select Authentication Method for Persystent Suite WebUI page, select an authentication method, and then click Next.





- On the Specify IIS User Credentials
 page, specify the user name and
 password of the user account that IIS
 will use to connect to Persystent Suite
 Database, and then click Next.
- On the Specify AD Group Access to Persystent Suite WebUI page, enter the AD group for granting access to the WebUI. Click Next.





- On the Ready to Install the Program page, click Install.
- On the InstallShield Wizard Completed page, click
 Finish.



post installation steps



- Launch Persystent WebUI and install Persystent Suite license key.
- Run PE Builder utility and create PE image.
- Configure WDS for PXE boot.
- Make sure Persystent Repository Service is up and running.





child server installation





- Install SQL 2012 /SQL 2012 Express or greater.
- Install IIS Role.
- Install Windows 10 ADK
- Install Crystal Report Plugins
- Install WDS role for PXE support.

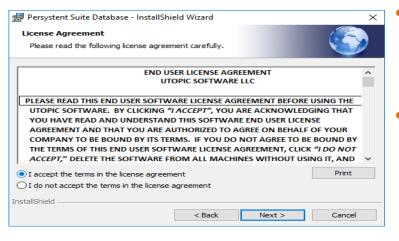


Ichild server installation

Server Configuration

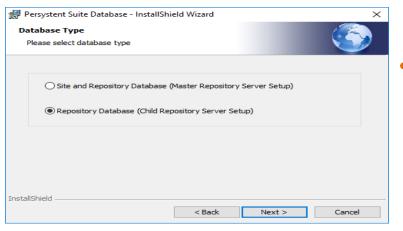
- Configure SQL service to start with LocalSystem account.
- Create a service account for Persystent Server.
- Add service account to Administrators group on the Persystent Server.
- Add service account to SQL and assign access to Persystent databases.
- Create firewall rule to allow Persystent port to communicate through firewall on the Persystent Server.
- Validate access to the Master Server using IP/Host name and port.





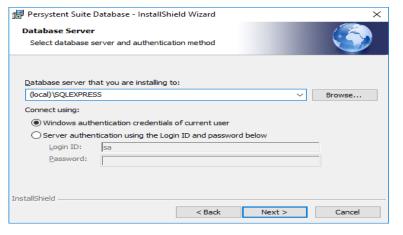
- Run Persystent Suite Database Setup.exe.
- On the *Persystent Suite Database InstallShield Wizard Welcome* page, click *Next*.
- On the *Review License Agreement* page, read the license agreement carefully and click I accept the terms in the license agreement, and then click *Next*.





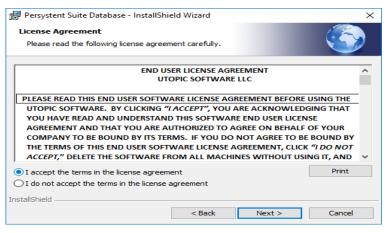
- On the Destination Folder page, verify the install folder and change if necessary.
- On the Database Type page, select the Site and *Repository Database (Child Repository Server Setup)*.).





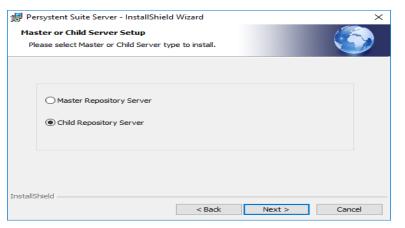
- On the *Database Server* page, select the database instance where the databases are to be installed. Click *Next*.
- On the Ready to Install the Program page, click Install.
- On the InstallShield Wizard Completed page, click Finish.





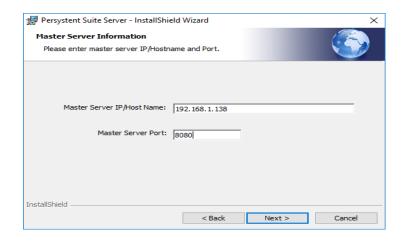
- Run Persystent Suite Server Setup.exe.
- On the Persystent Suite Server—
 InstallShield Wizard Welcome page, click
 Next.
- On the Review License Agreement page, read the license agreement carefully and click I accept the terms in the license agreement, and then click Next.





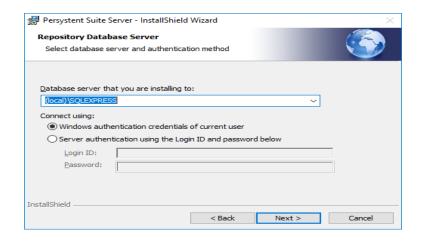
- On the *Destination Folder* page, verify the install folder and change if necessary.
- On the Master or Child Server Setup, select the Child Repository Server option





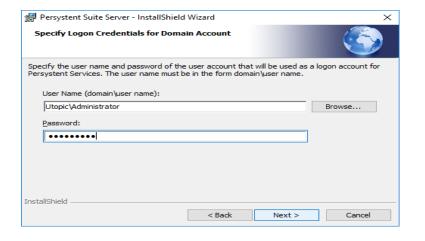
 On the Master Server Information page, enter Master Server IP/Host Name and Master Server Port, then click Next.





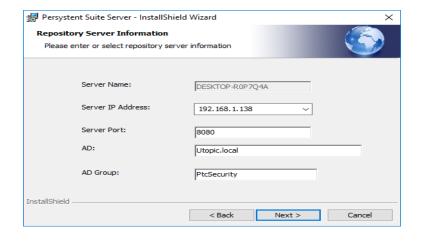
On the *Repository Database Server* page, click *Browse*, and select the
 database server to install to, then click
 OK.





 On the Specify Logon Credentials for Domain Account page, specify the user name and password of the user account that will be used as a logon account for the Persystent Suite Service, and then click Next.





• On the *Repository Server Information* page, accept or change the prefilled information, and then click *Next*.





- The Server Name box is prefilled with the local server. This server name will be used for the Persystent Suite Shared Repository Server.
- The Server IP Address list will display the IP addresses of all network interface cards (NICs) present. If multiple NICs are present, select the NIC to use for Persystent Suite Server from the list.
- The **Server Port** box is prefilled with **8080**; if this port is in use by your system, type an available port value in the box. This port is used by Persystent Repository Service to communicate with Persystent Client machines.





- The AD box will be prefilled with domain name if the Persystent Server is part of the domain. Enter AD information of master server. You can blank out this field if you do not want to use AD authentication.
- The AD Group box will be filled with default AD group PtcSecurity if the Persystent Server is part of the domain. You can change this group to any other AD group that you would like to use.





- On the Ready to Install the Program page, click Install.
- On the InstallShield Wizard Completed page, click
 Finish.



post installation steps



- Run PE Builder utility and create PE image.
- Configure WDS for PXE boot.
- Make sure Persystent Repository Service is up and running.



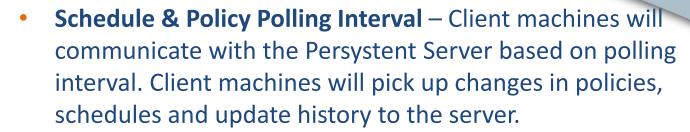


Jpersystent webui

- Repository Server Persystent Sever containing base images, repair points, and computer information.
- Computer Groups Collection of computers used to organize computers just like in AD
- Computers List of computers that have Persystent Client installed.
- Tasks Task contains list of actions that are executed on client machines.
- Filters File and Registry filters used with repair and repair points.
- Policies
 - Post Boot Policy Policy settings for Persystent Client Service
 - **Pre Boot Policy** Policy settings for preboot environment and integration with other third party tools.
 - Event Policy (Repair Policy) Policy that defines if machines repaired on every reboot or on demand.
- Reports Predefined reports for managing computers in the environment.



post boot policy





- Hardware & Software Inventory Enable or disable collection of hardware and software inventory.
- **Upload Images** Enable or disable uploading of machine snapshots to the server. This is used for disaster recovery in the event of hardware failure.
- **Upload Heal Data** Enable or disable uploading of files and folders that were repaired by Persystent Repair process.
- Show Notifier Agent Enable or disable access to the Notifier agent on client machines.



event policy (repair policy)



- No Repair Policy Computers are put in to On-Demand repair where computers will be repaired only when it is scheduled.
- Low Level Repair Policy Performs Low Level Repair on the machine every time it is rebooted.
- Medium Level Repair Policy Performs Medium Level Repair on the machine every time it is rebooted.
- **High Level Repair Policy** Performs High Level Repair on the machine every time it is rebooted.

pre boot policy



- Cache Size Size of the Persystent cache partition in % or MB. Default cache size is 30% which is sufficient to capture a snapshot even when 70% of OS partition is full.
- **User Notification** Custom notification text which will be shown in the event where restart of the machine is required.
- Diagnostic Mode Allows a machine from rebooting from Pre-boot environment (PE) for troubleshooting.

file/folder filters

- Base Image Specify files or folders that you would not like to be captured in the base image.
- Repair Exempt Specify files or folders that you would not like to be repaired on target machines. For example, virus definition files.
- Repair Point Include Specify files or folders that you would not like to be included in the repair points of the machines.
 For example, C:\Windows\Temp
- Profile Specify files or folders that you would like to exclude from being captured when backing up user profiles.

registry filters



- Repair Exempt— Specify registry path that you would not like to be repaired on target machines.
- Set Registry Specify registry keys and values that you would like to apply on target machines.



common tasks



- Create Repair Point Create repair point of target machine.
- Perform Low Level Repair Perform Low Level Repair on target machines.
- Perform Medium Level Repair Perform Medium Level Repair on target machines.
- **Perform High Level Repair** Perform High Level Repair on target machines.
- Rebuild Failed Hard Drive Installs last known snapshot of the machine from the server in the event of hard drive failure.

common tasks



- Perform Secure Wipe Perform secure wipe on lost or stolen machines.
- Install Base Image Installs base image on target machine and installs drivers, changes computer name, joins domain, etc.
- OS Migration Migrates machine from one operating system to another with migration of data, profiles and settings.



Jscheduling tasks

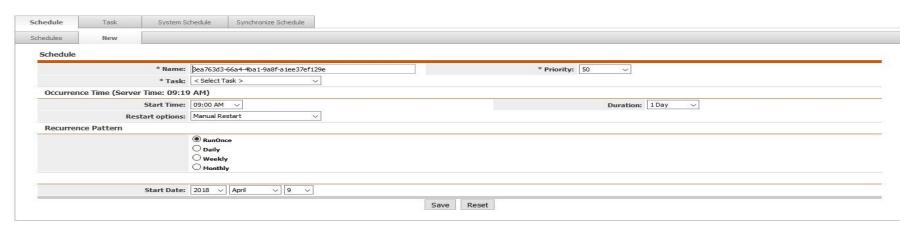
- Task can be schedule on one or more machines.
- **Priority** Lower the number higher the priority when more than one schedules are assigned.
- Start Time Defines the start time of the schedule.
- **Duration** Duration for which the schedule is valid for execution and after the schedule expires and will not be executed.
- Restart Options
 - Manual Restart User will be notified and must click Restart to reboot the machine.
 - Force Restart (Snooze Options) User will be notified and will have 3 snooze options of 15 minutes each. Computer will be force rebooted if user does not click Restart after 3 snooze options are exhausted.
 - Force Restart Machine will be force restarted.
- Start Date Date from which the schedule is valid for execution.



run once schedule



- Most commonly used.
- Executes schedule only once.
- Will not execute schedule after specified time.

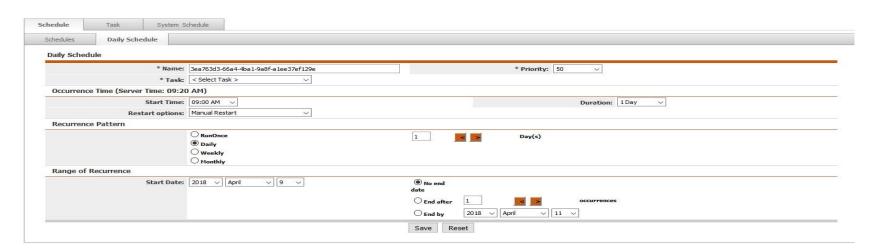




daily schedule



- Executes schedule daily based on given information.
- Will not execute schedule after specified time.

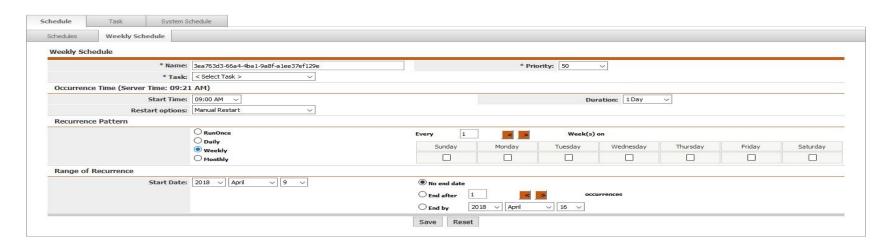




weekly schedule



- Executes schedule weekly based in given information.
- Will not execute schedule after specified time.

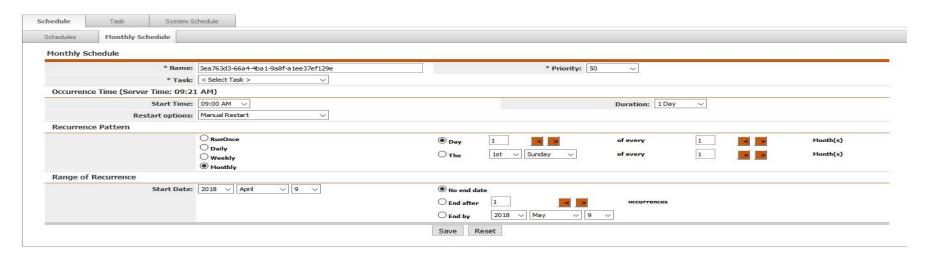




monthly schedule



- Executes schedule monthly based on given information.
- Will not execute schedule after specified time.





Itask history



- Task history is generated whenever it is executed on the target machines.
- Task history can be viewed on individual computer or using Reports on the WebUI.
- Status is provided for every action in the task regardless of success or failures.





server folder



- Repository Files C:\Program Files\Utopic
 Software\Server\RepositoryFiles
- Server Logs C:\Program Files\UtopicSoftware\Server\Logs
- Machine Logs C:\Program Files\Utopic
 Software\Server\MachineLogs\<MAC Address of Machine>\
- Drivers for Imaging C:\Program Files\Utopic
 Software\Server\Drivers
- Drivers for PE C:\Program Files\Utopic
 Software\Server\PE Builder\Drivers
- PE Builder Utility C:\Program Files\Utopic
 Software\Server\PE Builder\Persystent.PEBuiler.

client folders



- Persystent Client Service C:\Windows\Persystent
- Machine Logs C:\Windows\Persystent\Logs
 - UserService.Log Log for Persystent Client Service.
 - WinPE.log Log for WinPE where a machine was booted in PE environment for execute task or policy.





hardware independent imaging

- File based imaging
- Single standard image which can be applied to any hardware in the environment
- Images are stored in single instance repository.
- Automated driver installation based on make and model of the computer.
- Automated task sequence for post imaging configuration (Change Computer Name, Join Domain, Install Application,)
- Allows to computer to be encrypted inline with BitLocker
- Multicast support
- Ability to image computer using USB drive for remote users.





create base image (pre-requisites)



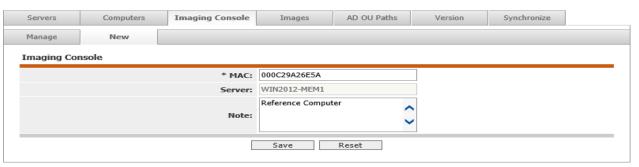
- Prepare a machine (VM is strongly recommended)
 with operating system and applications.
- Remove all unnecessary user profiles from the machine.
- Perform Disk Cleanup to remove all unnecessary information.
- Take a snapshot of VM once all is configured and ready to capture the base image.
- Create a SYSPREP unattend answer file to make the imaging process fully automated.



Create base image

 Add MAC Address of the VM in Persystent WebUI as Imaging Console.





- Copy the SYSPREP unattend file to root of C:\ of the VM.
- SYSPREP the VM: C:\Windows\System32\Sysprep\Sysprep.exe
 -oobe -generalize -shutdown -unattend:c:\unattend.xml
- VM will shutdown once SYSPREP process completes.



create base image

- Boot machine to Persystent via PXE/USB/CD DVD boot.
- Click on Create Image.





Base Images										
Name +	Size (MB	Model	OS Description	Service Pack	Platform	FSType	Synchronize	Created On	Туре	Domain
Windows 10 1709	6346	VMware Virtual Platform	Windows 10 Pro		AMD64	NTFS	No	2/12/2018 8:51:37 PM	Workgroup	Workgrou
Windows 7 6.1	4340	VMware Virtual Platform	Windows 7 Enterprise		AMD64	NTFS	No	2/12/2018 8:54:43 PM	Workgroup	Workgrou
Windows 7 x64 Enterprise .n	net 4.5 Sysprep 4290	VMware Virtual Platform	Windows 7 Enterprise		AMD64	NTFS	No	2/12/2018 8:54:53 PM	Workgroup	Workgrou

Base Image will be added to WebUI once completed.



deploy base image



- Base image can be deployed to a machine using any of the following mechanisms:
 - Client Build Wizard
 - Schedule Task
 - USB



deploy base image pre-requisites



- Create all necessary computer groups on the Persystent Web Console
- Create necessary Client Build Tasks which will be used as part of the build process.
- Boot image and Windows Deployment Services have been setup and configured.
- Ensure the computer's MAC Address is not entered anywhere in the Web Console.
- to be imaged.





deploy base image drivers

- Find out the manufacture name and model of the computer. This information can be found by running the following command at a command prompt on the target computer: wmic computersystem get model,manufacturer
- Note the information.
- On the Persystent Server, navigate to C:\Program Files\Utopic Software\Server.
- If necessary, create a folder called **Drivers**.
- Download the drivers for this model from the manufacturer. The drivers can be in zipped or CAB format.
- Rename the zip or cab file to in following format < Manufacturer>.< Model>.zip or < Manufacturer>.< Model>.cab
- Example: C:\Program Files\Utopic Software\Server\Drivers\Dell Inc..OptiPlex 9010.zip or
 C:\Program Files\Utopic Software\Server\Drivers\Dell Inc..OptiPlex 9010.CAB

deploy base image drivers



HP

http://ftp.hp.com/pub/caps-softpaq/cmit/HP_Driverpack_Matrix_x64.html

Dell

http://en.community.dell.com/techcenter/enter prise-client/w/wiki/2065

Lenovo

https://support.lenovo.com/us/en/documents/ ht074984 UTOPI

deploy base image client build wizard



- Boot computer to Persystent via PXE/USB/CD DVD
- Login to proceed to Client Build Wizard
- The Client Build Wizard screen is shown and Install Image is selected by default.



deploy base image client build wizard

On the Client Build Wizard the following information can be provided:

- Persystent Server Select the Persystent Server that this computer will report to.
- Persystent Group Select the Persystent Group that this computer belongs to.
- Computer Name Enter the name to assign to this computer.
- Base Image The image that is being deployed.
- Create Hidden Cache If Yes is selected, it will create a hidden cache partition
 which will enable the repair functionality. If No is selected, it will install the image
 on the computer, but it will not create hidden cache partition and you will not be
 able to use repair functionality.
- Multicast –This option provides the ability to deploy an image to multiple computer simultaneously. If multiple computers are being imaged, use this option so that the base image is transferred once over the network rather than multiple times.



deploy base image client build wizard



- Client Build Task (Optional) If a Client Build Task has been created it can be selected here. This task will be executed once the base image has been installed on the computer. This allows you to automate your imaging process.
- Click Build button to start the imaging process.
- The selected base image is now being installed on the computer.
- Once the base image is installed successfully then machine will be added to Persystent Web Console automatically. At this point, the build process is complete and the machine is ready to be managed through Persystent Web Console.

deploy base image schedule task



- Add computer to the WebUI if it already does not exists.
- Create a task to deploy base image on the WebUI. Here is an example of a task which would install base image, join domain and create first repair point.

Step ▼	Name	Description	Executed By	OnSuccess	OnFailure	-	-
1	Install Base Image		PE	Go next	Quit	4	-
2	Boot To OS		PE	Go next	Quit	4	4
3	Clear Auto Logon		Client Service	Restart Computer	Quit	4	-
4	Join Domain		Client Service	Restart Computer	Quit	4	4
5	Create Repair Point		PE	Go next	Quit	4	-

- Schedule this task to computer(s) from WebUI.
- Boot computer to Persystent via PXE/USB/CD DVD.
- Computer will execute assigned imaging task.

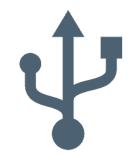




Create USB (Physical Server)

- On the Persystent Server launch the following executable:
 C:\Program Files\Utopic Software\Server\PE
 Builder\Persystent.PEBuilder.exe.
- Click File | Create USB with Base Images.
- On the Create USB for Image Deployment screen select the desired base images and drivers that will be placed on the USB drive.
- At the bottom of the dialog, select the drive letter corresponding to the USB drive.
- Click Create.
- The USB drive will be formatted and all data will be lost. Click Yes to proceed.
- Click OK on the success dialog.

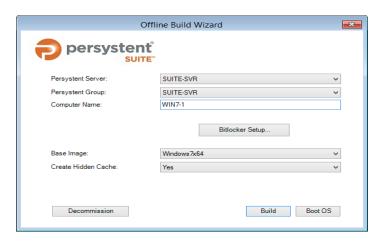




- On the Persystent Server launch the following executable: C:\Program Files\Utopic Software\Server\PE Builder\Persystent.PEBuilder.exe.
- Click File | Create ISO (Offline) and click Create.
- The ISO file will be stored on the desktop of the logged on user (persystent_pe_offline.iso).
- Click File | Create USB with Base Images (Offline).
- On the Create USB for Image Deployment (Offline) screen select the desired base images and drivers that will be placed on the USB drive and click Create.
- The files will be exported to C:\Program Files\Utopic Software\Server\USB folder.
- Burn the ISO file persystent_pe_offline.iso on the USB drive.
- Copy the content of the C:\Program Files\Utopic Software\Server\USB folder to the root of the same USB drive.

Deploy Base Image

- Plug the USB drive into the computer and boot to USB.
- The Build Wizard screen is shown.
- Select the desired options and click Build.







Deploy Base Image

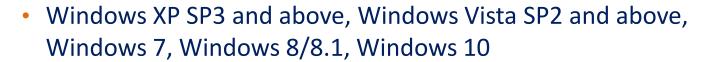


• The selected base image is now being installed on the computer. Once the base image is installed successfully, it will be automatically added to Persystent Web Console.





install persystent client pre-requisites الر





- 1 gigahertz (GHz) processor minimum (2 GHz or more recommended)
- 1 GB RAM minimum (2 gigabyte (GB) RAM or more recommended)
- 30% continuous free space
- Not more than 3 existing partitions on MBR based machines
- .NET Framework 4.5 or above
- BitLocker policy configured if machines are encrypted with BitLocker.

install persystent client - manual



- Launch the MSI by double clicking AgentInstaller.MSI.
- On the Welcome screen click Next.
- On the **Select Installation Folder** screen, verify the installation folder and click **Next**.
- On the Persystent Server Connection Parameters screen, enter the IP address of the Persystent server in the Host Name field.
 Enter the port of the Persystent server in the Host Port field. Click Next.
- On the Confirm Installation screen, click Next.



Jinstall persystent client - manual



- On the Installation Complete screen, click Close.
- You will note that Persystent partition will be shown in My
 Computer and it will be hidden once installation is complete. You
 will see that the install is completed when you see the message
 "Machine inherited successfully".



Jinstall persystent client - silent

The MSI can be installed **without user interaction**. To perform a fully automated installation using the MSI run the following command:



- Syntax: msiexec /i AgentInstaller.msi /quiet HOSTNAME=<[Server IP]> HOSTPORT=<[Server Port]> CREATEREPAIRPOINT=<[1 = YES or 0 = NO]> SILENTINHERIT=<[1 = YES or 0 = NO]> PREFERREDGROUP=<[Name of the group where computer will be added in Persystent]>
- Example: msiexec /i AgentInstaller.msi /quiet HOSTNAME=192.168.1.138 HOSTPORT=8080 CREATEREPAIRPOINT=0 SILENTINHERIT=1 PREFERREDGROUP=Engineering



Jinstall persystent client - silent

MSI Parameter	Description
HOSTNAME	Name or IP address of the Persystent Server.
HOSTPORT	TCP port on which Persystent Server is configured to communicate with client machines.
CREATEREPAIRPOINT	1 = Create repair point of the machine automatically after computer has finished the inherit process successfully. 0 = Do not create repair point of the machine. (Administrator would schedule repair point either from the UI or using the Notifier Agent on the machine). This setting is default if this parameter is not used.
SILENTINHERIT	 1 = The install process will be completely silent to the user. There will be no notifications shown to the user. 0 = The user will be shown notifications of inherit process. This setting is default if this parameter is not used.
PREFERREDGROUP	Name of the Persystent computer group where the computer will be added. Note: if the group does not exist then the computer will be added to the default group called "Inherited Computers" group. If this parameter is not assigned at the install time then computer will be added to the default group called "Inherited Computers" group.



install persystent client - troubleshooting





- The IP address or Port entered for the Persystent server may have been mistyped.
- The client is not able to reach the Persystent Server (Server may be down, firewall is blocking communication, or Persystent Service may be stopped).
- Look at C:\Windows\Persystent\Logs\UserService.O.log for more information



install persystent client - troubleshooting

Computers are not creating Persystent partition.



There are couple of reasons why Persystent agent would not be able to create the Persystent partition on the client machines.

Issue: On a BIOS (MBR) based machine, if there are already 4 primary partitions present then the Persystent agent would not be able to create the Persystent partition. This is a limitation of BIOS (MBR) based machines.

Solution: You would need to delete one of the existing partition so that Persystent agent can create its own partition.



install persystent client - troubleshooting

BitLocker is not configured on Persystent Server.

Persystent agent will not inherit the machine if the machine has Bitlocker enabled but not configured on the Persystent Server.



Solution:

- Note type of BitLocker encryption and strength is used.
- Log on the Persystent Web Console.
- Click on the Persystent Server. Click on Manage tab and then click on Manage tab.
- Select desired Encryption Compatibility and BitLocker Encryption strength.
- Click Save.
- Restart Persystent Client Service and it should continue on inheriting the machine.





repair point snapshot



- A repair point is a snapshot of operating system and application files.
- It only contains files and folders that are operating system and application specific.
- User data and user profiles are not included in the repair point.
- You can optionally include other files and folders that are not automatically part of the repair point by using the "Repair Point Include Filter" feature.
- Repair point can be created using:
 - Scheduled through WebUI.
 - Notifier Agent
 - Command-line



repair point snapshot



- A repair point is created locally to the machine and can be uploaded to the server using policy for disaster recovery.
- Repair points are compressed 3:1 and encrypted.
- First repair point can take anywhere from 2 minutes to 30 minutes.
- Each additional repair point can take 30 seconds to 5 minutes.



repair point snapshot

Default Files and Folders captured in a Repair Point

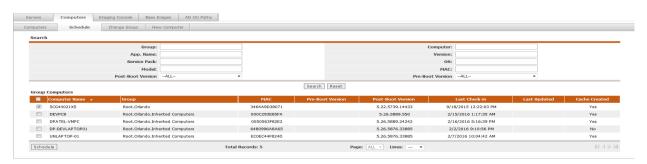
- C:\Bootmgr
- C:\Bootsect.bak
- C:\Windows (Excluding C:\Windows\CSC)
- C:\Program Files
- C:\Program Files (x86)\
- C:\ProgramData
- C:\Users\Public
- C:\Users\Default
- C:\Boot
- C:\inetpub





Create repair point – web ui

- Create a Task to capture repair point if it already doesn't exist in WebUI.
- Schedule Task to a machine:
 - Login to the WebUI.
 - Click on the Computer Group or the Server where the computer is located.
 - Select computer(s) to assign the schedule and click on "Schedule" button.



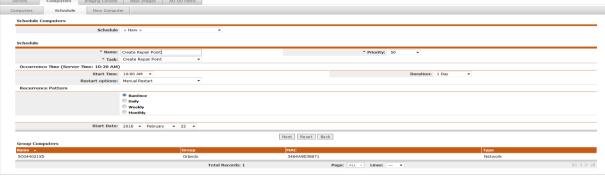
 Select task to be scheduled from the pull down menu and give a name to the schedule.





Create repair point – web ui

 Select schedule options (type of schedule, reboot options, etc.) based on requirement.

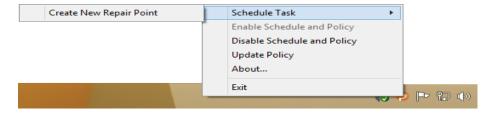




- Click on "Next" button.
- Click on "Confirm" to assign schedule to computer(s).
- Computer(s) will poll for the schedule and policy changes based on the
 poling interval set in "Post Boot" policy. Persystent Client Service will reboot
 the machine once schedule information is pulled from the server
 to execute the schedule.

Create repair point – notifier agent

- Make sure that Persystent Notifier Agent is enabled in Post Boot Policy in WebUI.
- Make sure that Create Repair Point task is enabled for Notifier Agent in Post Boot Policy on WebUI.
- Right click on the Persystent Notifier Agent from the taskbar.



- Click on "Schedule Task".
- Click on "Create New Repair Point" task.
- Click on "Yes" to schedule the task on the local machine.
- Persystent will prompt you to reboot the machine to execute the schedule.
- Computer will reboot and create Repair Point of the machine.



create repair point – command line

- Make sure that Persystent Client is installed and running on the machine.
- Run CMD as an administrator.
- Change working directory to C:\Windows\Persystent.
- Type in command: C:\Windows\Persystent\Persystent.Command.exe "ScheduleRepairPoint"
- Persystent will create schedule to create repair point of the machine and asks user to restart the machine if logged on.
- If the machine is not connected then Persystent will create local schedule. All local schedules do not generate history since they are disconnected from Persystent Server.
- Persystent will prompt user to reboot if logged in.
- Computer will reboot and create repair point and then boot back to the operating system.









- File based repair process.
- Repairs computer back to last know state in seconds.
- Multiple levels of repair to suit different users and environments.
- Auto Repair vs On-Demand Repair
- Ability to exclude any file, folder or registry
- Ability to repair back to any of the repair points of the computer.
- Repairs computer On or Off the network.
- File Change Report to diagnose what files were repaired on a computer.



low level repair

- Repairs any operating system and application files that are either modified or deleted back to the repair point state.
- Deletes any new files/folders that are added in operating system and application folders.
- User profiles are left intact. All change in the user's profile are preserved and not repaired.
- Any new files/folders created at the root of C:\ will be left intact.
- Use Cases:
 - OS and Application misconfiguration or corruption.
 - Bad Patch
 - User misconfiguration



medium level repair

- Repairs any operating system and application files that are either modified or deleted back to the repair point state.
- Deletes any new files/folders that are added in operating system or application folders.
- User profiles are left intact. All change in the user's profile are preserved and not repaired.
- Any new files/folders created at the root of C:\ are deleted.
- Use Cases:
 - OS and Application misconfiguration or corruption.
 - Bad Patch
 - User misconfiguration



high level repair

- Repairs any operating system and application files that are either modified or deleted back to the repair point state.
- Deletes any new files/folders that are added in operating system or application folders.
- User profiles are deleted so that new user profiles will be created when a user logs on.
- Any new files/folders created at the root of C:\ will be deleted.
- Use Cases:
 - KIOSK / Lab Environment / Conference Room Computers.
 - Employee Retention
 - Virus / Malware infection



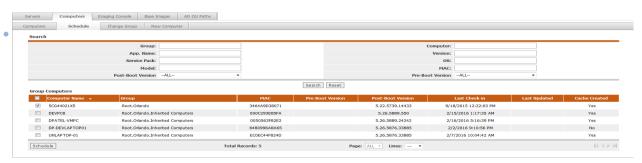
repair levels

		Low Level Repair	Medium Level Repair	High Level Repair
	Protects OS and Application Files		✓	
Transport of the Park	Leaves User Profiles and User Settings intact			DELETE
	Leave User Data at root of the C:\ intact		DELETE	DELETE



perform repair - webui

- Create a Task to perform repair if it already doesn't exist in WebUl.
- Schedule Task to a machine:
 - Login to the WebUI.
 - Click on the Computer Group or the Server where the computer is located.

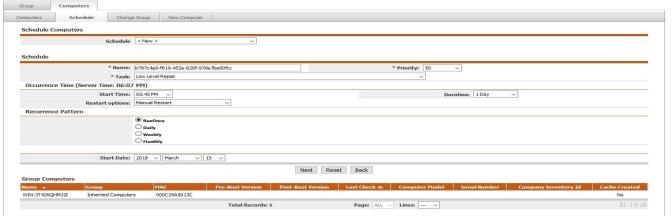


 Select task to be scheduled from the pull down menu and give a name to the schedule.



perform repair - webui

Select schedule options (type of schedule, reboot options, etc.) based on requirement.

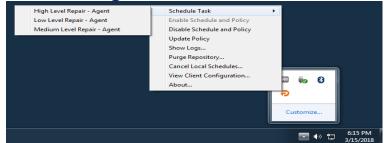


- Click on "Next" button.
- Click on "Confirm" to assign schedule to computer(s).
- Computer(s) will poll for the schedule and policy changes based on the poling interval set in "Post Boot" policy. Persystent Client Service will reboot the machine once schedule information is pulled from the server to execute the schedule.

Jperform repair - notifier agent

- Make sure that Persystent Notifier Agent is enabled in Post Boot Policy on WebUI.
- Make sure that Repair task is enabled for Notifier Agent in Post Boot Policy on WebUI.

Right click on the Persystent Notifier Agent from the taskbar.



- Click on "Schedule Task".
- Click on "Low Level Repair Agent" task.
- Click on "Yes" to schedule the task on the local machine.
- Persystent will prompt you to reboot the machine to execute the schedule.
- Computer will reboot and repaired back to last known Repair Point.



perform repair - command line

- Make sure that Persystent Client is installed and running on the machine.
- Run CMD as an administrator.
- Change working directory to C:\Windows\Persystent.
- Type in command: C:\Windows\Persystent\Persystent.Command.exe
 "ScheduleRepair"
- Persystent will create schedule to perform repair on the machine and asks user to restart the machine if logged on.
- If the machine is not connected then Persystent will create local schedule. All local schedules do not generate history since they are disconnected from Persystent Server.
- Persystent will prompt user to reboot if logged in.
- Computer will reboot and it will be repaired to the last known repair point.



repair log

- Persystent will create repair log when ever a computer is repaired.
- Repair log will contain following information:
 - File / Folder that was modified and repaired back.
 - File / Folder that was not present in Repair Point so deleted from the computer.
 - File / Folder that was deleted from the computer and was put back by the repair process.
- Repair logs are located in C:\Windows\Persystent\Logs folder. (Heal.X.Log)

```
Heal.2 - Notepad
File Edit Format View Help
Change File: Windows\System32\config\DEFAULT
Change File: Windows\System32\config\DEFAULT.LOG1
Change File: Windows\System32\config\SAM.LOG1
Change File: Windows\System32\config\SECURITY.LOG1
Change File: Windows\System32\config\SOFTWARE
Change File: Windows\System32\config\SOFTWARE.LOG1
Change File: Windows\System32\config\SYSTEM
Change File: Windows\System32\config\SYSTEM.LOG1
Change File: Windows\System32\DriverStore\drvindex.dat
Change File: Windows\System32\DriverStore\infpub.dat
Change File: Windows\System32\DriverStore\infstor.dat
Change File: Windows\System32\DriverStore\infstrng.dat
Change File: Windows\System32\Msdtc\MSDTC.LOG
Change File: windows\System32\wdi\BootPerformanceDiagnostics_SystemData.bin
Change File: Windows\System32\wdi\LogFiles\BootCKCL.etl
Change File: Windows\System32\wdi\LogFiles\ShutdownCKCL.etl
Change File: Windows\System32\wfp\wfpdiag.etl
Change File: Windows\Tasks\SA.DAT
Change File: Windows\Tasks\SCHEDLGU.TXT
Change File: Windows\System32\config\DEFAULT.LOG2
Change File: Windows\System32\config\SAM.LOG2
Change File: Windows\Svstem32\config\SECURITY.LOG2
Change File: Windows\System32\config\SOFTWARE.LOG2
```



file change report – web ui



- Login to the WebUI.
- Click on Reports and click on File Change Report.
- Enter search parameters as needed.
- · Click Search.

File Change Report							
ime	MAC Address	Boot Occurrence .	Agent Version	Last Check-in	Repaired On	File Repaired	Repair Action
OB-DELL-LAPTOP	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\SYSTEM.LOG1	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\SOFTWARE	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\SYSTEM	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	ProgramData\Microsoft\Wetwork\Downloader\qmgr1.dat	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	ProgramData\Microsoft\Network\Downloader\qmgr0.dat	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\bootstat.dat	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\setupact.log	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\ServiceProfiles\LocalService\NTUSER.DAT	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\ServiceProfiles\LocalService\NTUSER.DAT.LOG1	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\ServiceProfiles\NetworkService\NTUSER.DAT	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\ServiceProfiles\NetworkService\NTUSER.DAT.LOG1	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\catroot2\edb.chk	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\catroot2\{127D0A1D-4EF2-11D1-8608-00C04FC295EE}\catdb	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\catroot2\{F750E6C3-38EE-11D1-85E5-00C04FC295EE}\catdb	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\DEFAULT.LOG1	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\SAM.LOG1	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\SECURITY.LOG1	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\SOFTWARE.LOG1	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\Msdtc\MSDTC.LOG	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\wdi\LogFiles\BootCKCL.etl	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\wdi\LogFiles\ShutdownCKCL.etl	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\wfp\wfpdiag.etl	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\Tasks\SA.DAT	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\Tasks\SCHEDLGU.TXT	Change File
	00505634D374	690	6.1.6617.32136	3/15/2018 3:19:56 PM	3/15/2018 3:19:00 PM	Windows\System32\config\DEFAULT	Change File





disaster recovery

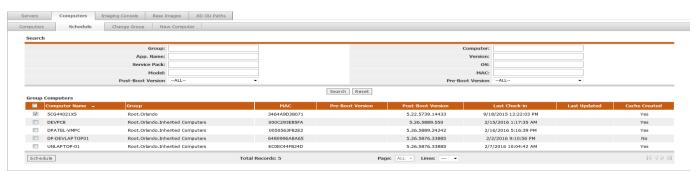


- Allows to install last known Repair point of the computer from the server.
- Enables inline BitLocker encryption.
- Rejoins computer back to domain.
- Allows automating post imaging process.
- Use Cases:
 - Failed Hard Drive
 - Hardware Failure
 - Employee Retention



disaster recovery – web ui

- Create a Task to install Repair Point if it already doesn't exist in WebUI.
- Schedule Task to a machine:
 - Login to the WebUI.
 - Click on the Computer Group or the Server where the computer is located.
 - Select computer(s) to assign the schedule and click on "Schedule" button.

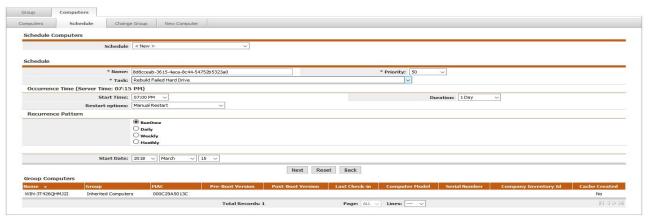


Select task to be scheduled from the pull down menu and give a name to the schedule.



disaster recovery – web ui

Select schedule options (type of schedule, reboot options, etc.) based on requirement.



- Click on "Next" button.
- Click on "Confirm" to assign schedule to computer(s).
- Computer(s) will poll for the schedule and policy changes based on the poling interval set in "Post Boot" policy. Persystent Client Service will reboot the machine once schedule information is pulled from the server to execute the schedule.



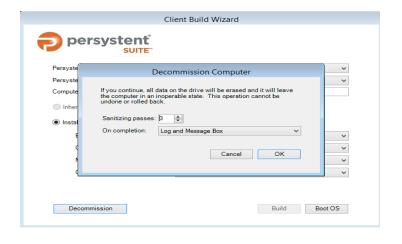
secure hard drive wipe



- Allows computer to be wiped clean by performing secure wipe.
- Ability to do multiple passes when performing wipe.
- Follows NIST 808-88 Clear wipe guidelines.
- Generates compliance report.
- Use Cases:
 - End of life computers
 - End of lease computers
 - Lost or stolen computers



performing secure wipe



- PXE Boot Computer
- Administrator logs into the Persystent (Authorized users only)
- Click on "Decommission" button
- Select number of "Sanitizing Passes"
- Click "OK" to start



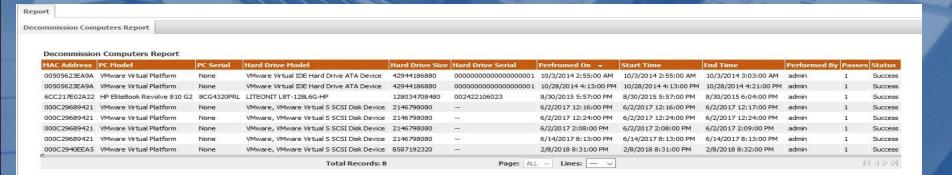
Jperforming secure wipe

- A message box will be shown upon completion of the decommission process.
- Click "Yes" to shut down the computer.
- Results are uploaded to the Management Server
- Administrator can run "Decommission Computer Report" on the WebUI
- Administrator can search information by
 - Mac Address
 - Computer Name
 - PC Model
 - PC Serial #
 - Hard Drive Model
 - Performed By
 - Performed Date and Time
 - Status





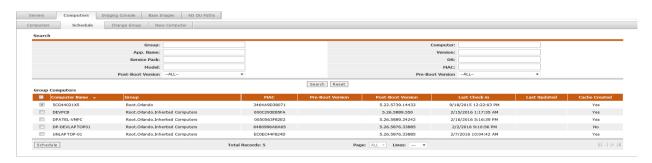
performing secure wipe





remote secure wipe

- Create a Task to Secure Wipe if it already doesn't exist in WebUI.
- Schedule Task to a machine:
 - Login to the WebUI.
 - Click on the Computer Group or the Server where the computer is located.
 - Select computer(s) to assign the schedule and click on "Schedule" button.

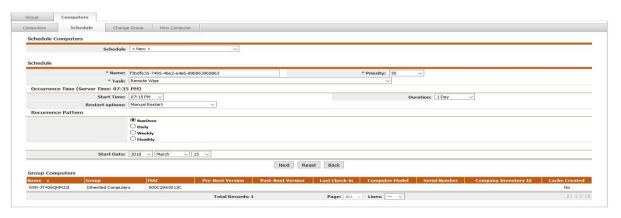


Select task to be scheduled from the pull down menu and give a name to the schedule.



remote secure wipe

Select schedule options (type of schedule, reboot options, etc.) based on requirement.



- Click on "Next" button.
- Click on "Confirm" to assign schedule to computer(s).
- Computer(s) will poll for the schedule and policy changes based on the poling interval set in "Post Boot" policy. Persystent Client Service will reboot the machine once schedule information is pulled from the server to execute the schedule.



os migration



- Allows OS to be migrated from one version to another.
- Allows backing up of user profiles, data and settings.
- Requirements
 - Prepare Base image
 - Drivers
 - Create a task in Persystent WebUI
 - Persystent client must be installed on machines
 - Applications verified for newer OS



os migration



Preparing Base Image

- It is recommended to use thin image with core applications as needed.
- Make sure latest patches are installed.
- Make sure to use SYSPREP answer file to automate the migration process.



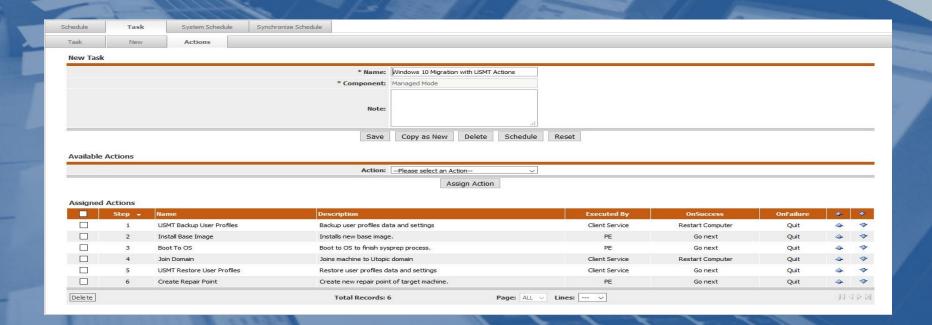
os migration

Preparing Migration Task

- In order to fully automate OS Migration process create task in Persystent WebUI with followings:
 - Backup existing user profiles, data and settings.
 - Install new Base Image
 - Formats partitions
 - Enabled BitLocker if needed
 - Installs Drivers
 - Changes Computer Name
- Join Domain
- Restore user profiles, data and settings.
- Create first Repair point of the machine.



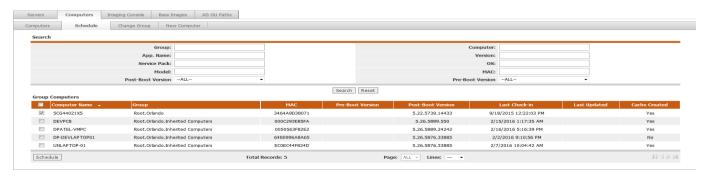
os migration task





Jos migration web ui

- Schedule Task to a machine:
 - Login to the WebUI.
 - Click on the Computer Group or the Server where the computer is located.
 - Select computer(s) to assign the schedule and click on "Schedule" button.

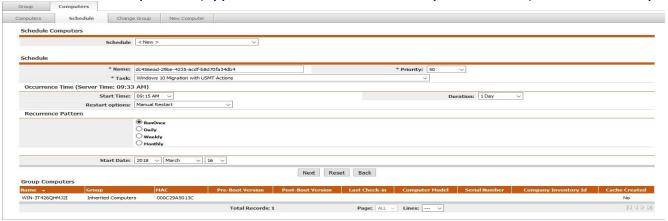


Select task to be scheduled from the pull down menu and give a name to the schedule.



os migration web ui

Select schedule options (type of schedule, reboot options, etc.) based on requirement.



- Click on "Next" button.
- Click on "Confirm" to assign schedule to computer(s).
- Computer(s) will poll for the schedule and policy changes based on the poling interval set in "Post Boot" policy. Persystent Client Service will reboot the machine once schedule information is pulled from the server to execute the schedule.



software deployment



- Allows to deploy applications to Persystent machines.
- Application installers must be in MSI or EXE or script.
- Application installers must support silent install for automated install.
- Applications will be installed as LocalSystem context.
- Deploy Applications by:
 - Scheduling Task on machines.
 - Assigning applications at Group level for automated installed based on group membership.
 - Post imaging process from Client Build Wizard or USB Build Wizard.
 - Allowing users to install using Notifier Agent on the machine based on policy.

Jadding application to persystent

- Copy all application install files in a folder. For example: Notepad++
- Make sure that the install file is located at the root of the folder in step 1.
- Run PE Builder utility on the Persystent Server.
- Click on Application.
- Click on Add Application.
- On Add Application screen enter following information about the application:
 - Name Name of the application.
 - Version Version of the application.
 - Architecture Select the architecture for the application.
 - Source Folder Browse to source folder from step 1.
 - Install File (msi, exe or script):
 — Name of the MSI or EXE or Batch or PowerShell script.
 - Command Arguments Command line arguments if any

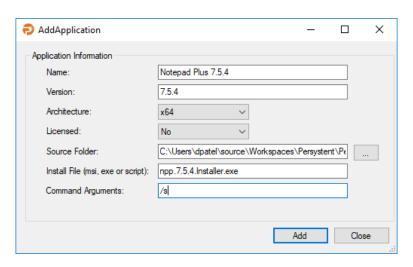




Jadding application to persystent

- Verify the information entered.
- Click Add.





 Application will be added to the Persystent Server and listed under Applications tab on the WebUI.



Jadding application to persystent

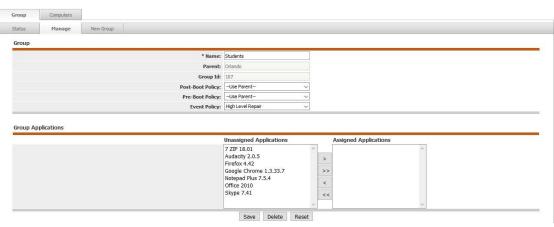


plications								
Applicat	tions							
Nan	ne 🕶	Version	Architecture	CreatedOn	Synchronize	ReSynchronize	CommandLine	Arguments
☐ 7 ZI	IP 18.01	18.01	x64	3/20/2018 12:11:04 PM	Yes	No	7 ZIP 18.01\7z1801-x64.exe	/s
☐ Aud	facity 2.0.5	2.0.5	x64	4/20/2018 10:38:14 AM	Yes	No	Audacity 2.0.5\audacity-win-2.0.5.exe	/verysilent
☐ Fire	fox 4.42	4.42	x64	4/4/2018 1:16:25 PM	Yes	No	Firefox 4.42\Firefox Installer.exe	-ms
☐ Goo	ogle Chrome 1.3.33.7	1.3.33.7	x64	4/4/2018 12:30:14 PM	Yes	No	Google Chrome 1.3.33.7\ChromeSetup.exe	/silent /install
☐ Not	epad Plus 7.5.4	7.5.4	x64	4/3/2018 5:12:18 PM	Yes	Yes	Notepad Plus 7.5.4\npp.7.5.4.Installer.exe	/S
☐ Offi	ice 2010	2010	x64	4/20/2018 11:06:47 AM	Yes	No	Office 2010\Setup.exe	/config "C:\Office 2010\ProPlusr.WW\config.xml"
☐ Sky	pe 7.41	7.41	x64	4/4/2018 12:48:09 PM	Yes	No	Skype 7.41\SkypeSetupFull.exe	/VERYSILENT /SP- /NOCANCEL /NORESTART /SUPPRESSMSGBOXES /NOLAUNCH
Delete				т.	otal Records: 7	7	Page: ALL V Lines: V	d b M



lassigning application to a group

- Login to WebUI.
- Expand Persystent Sever on the left-hand side tree.
- Click on a specific group where you would like to assign the application on the left-hand side tree.
- Click on Group tab.
- Unassigned and Assigned applications would be listed on the page.

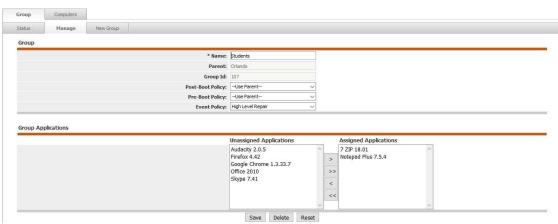






lassigning application to a group

- Select the applications that you would like to assign to the group.
- Click on > button to move application to the Assigned Applications.
- Click Save.
- Application will be deployed to all machines that are part of the group as they check-in with the Persystent Server.

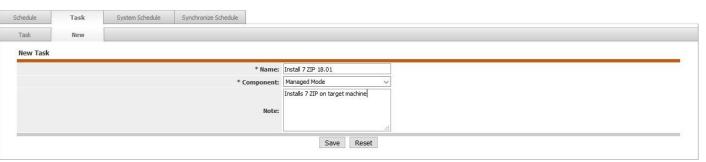






deploy application using scheduled task

- Login to WebUI.
- Click on Task on the left-hand side tree.
- Click New tab on the right-hand side to create the new task.
- Enter Task information:
 - Name Name of the task. For example: Install 7 ZIP 18.01
 - Component Select Managed Mode.
 - Note Enter any notes if needed.



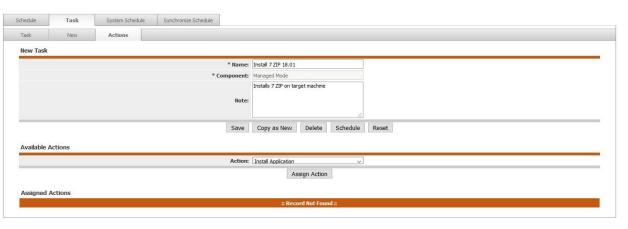




deploy application using scheduled task

- Click Save.
- Select Install Application action from list of Actions.





- Click Assign Action.
- Select application to be installed on the target machine from the dropdown list.
- Click Save.



deploy application using scheduled task

Task is ready to schedule on machines.



Schedule	Task	System Schedule	Synchronize	Schedule		
Task	New	Actions	New Action			
Task						
				Name:	Install 7 ZIP 18.01	
				Component:	Managed Mode	
New Action	n					
					Install Application	
				On Success:		
				On Failure:		
				* Application:	7 ZIP 18.01 V	
				Action Description:	.सं	
				Action Summary:	This action will deploy given application to target machine.	
					Save Reset	





- Boot computer to Persystent using PXE/CD/DVD/USB.
- Computer will now boot into the pre-boot environment and will prompt you to login.
- Enter the username and password that you use to log into Persystent Web Console.
- The Client Build Wizard screen is shown and Install Image is selected by default. On this screen the following information can be provided:







Client Build Wizard				
persystent				
Persystent Server:	DESK	TOP-R0P7Q4A		~
Persystent Group:	Facul	ty		~
Computer Name:	VMPC	-99		
O Inherit Computer				
Install Image:		Bitlocker Setup	Applications	
Base Image:		Windows 10 1709		~
Create Hidden Cache:		Yes		~
Multicast:		No		~
Client Build Task (Optional):		None		~
Decommission			Build Boot OS	





- Persystent Group Select the Persystent Group that this computer belongs to.
- Computer Name Enter the name to assign to this computer.
- Base Image The image that is being deployed.
- Create Hidden Cache If Yes is selected, it will create a hidden cache partition which will enable the repair functionality. If No is selected, it will install the image on the computer, but it will not create hidden cache partition and you will not be able to use repair functionality.
- Multicast –This option provides the ability to deploy an image to multiple computer simultaneously. If
 multiple computers are being imaged, use this option so that the base image is transferred once over the
 network rather than multiple times.
- Client Build Task (Optional) If a Client Build Task has been created it can be selected here. This task will be executed once the base image has been installed on the computer. This allows you to automate your imaging process.
- Bitlocker Setup Click on Bitlocker Setup button to configure Bitlocker and TPM settings.
- Applications Click on Applications button to select any applications that you would like to deploy post imaging process.





Applications	
Applications Installed per Group: Audacity 2.0.5 Firefox 4.42 Google Chrome 1.3.33.7 Notepad Plus 7.5.4 Office 2010 Skype 7.41	Optional Applications: 7 ZIP 18.01
	Cancel OK

- Click Build.
- The selected base image is now being installed on the computer. Once the base image is
 installed successfully then it will be added to Persystent Web Console automatically. The
 machine will automatically install any applications selected on this wizard. At this point,
 the build process is complete and the computer is ready to be managed through Persystent
 Web Console.



Applications can be installed by users using Notifier Agent from the machine based on policy.

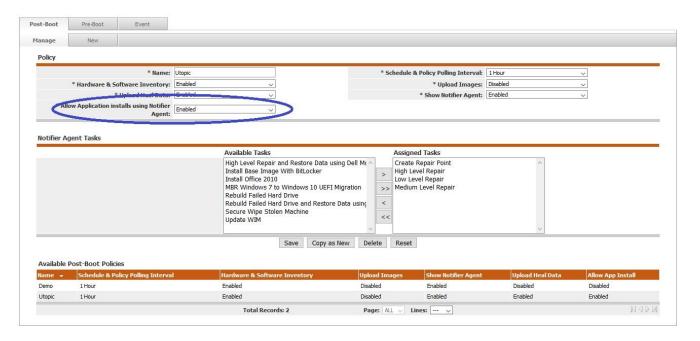
- Only un-licensed applications can be installed by users.
- Policy must be set to allow users to install applications.
- All un-licensed applications will be shown to user to install on their machines.





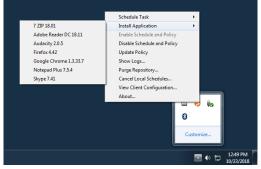
Policy to allow user to install applications using Notifier Agent.





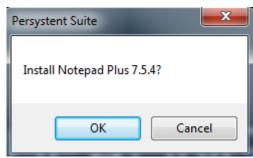


- Right click on Notifier Agent running in the task bar on the machine.
- Select "Install Application".





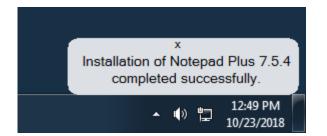








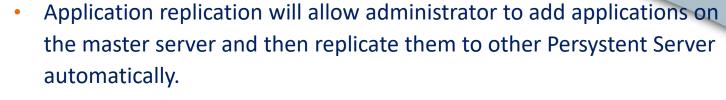
Application will be installed and user will be notified on installation progress.





• Application inventory will be updated to the Persystent server reflecting installation of the new application.







- The master server should be accessible over the network from all other Persystent Servers in order for the application replication to work correctly.
- Only approved applications will be replicated to the other servers.

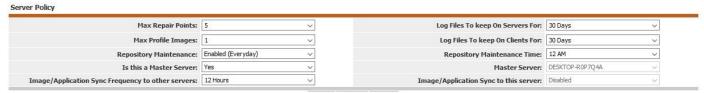




Setting up Master Server

A master image server needs to be dedicated in the Persystent WebUI so that all other Persystent Servers can replicate base images.

- Login to the Persystent WebUI.
- Click on the Persystent Server on the tree which is going to be Master Server.
- Click on the Server tab.
- Click on the Manage tab.
- Scroll down to Server Policy section.



- Change the setting for "Is this is a Master Server" to "Yes".
- Set the "Image/Application Sync Frequency to other servers" to desired setting (default setting is 15 Minutes).
- Restart "Persystent Repository Service" on this server.





Setting up Child Server

A master image server needs to be dedicated in the Persystent WebUI so that all other Persystent Servers can replicate base images.

- Login to the Persystent WebUI.
- Click on the Persystent Server on the tree which is going to be Child Server.
- Click on the **Server** tab.
- Click on the **Manage** tab.
- Scroll down to **Server Policy** section.



- Change the setting for "Image/Application Sync to this server" to "Enabled".
- Restart "Persystent Repository Service" on this server.
- Repeat steps 1 8 for all other child servers.







Set Application to be replicated

All applications by default are set not be replicated. It is a good practice to test the applications first and then set it to be replicated to other servers.

- Login to the Persystent WebUI.
- Click on the Persystent Server on the tree which is dedicated as master server.
- Click on "Applications" tab. All available applications will be listed.
- Click on the application that needs to be replicated to other servers.
- Change the setting "Synchronize Application" to "Yes".
- Click Save.
- Application will be synchronized to other servers based on the policy.

cations								
Application	ons							
Name	c 🕶	Version	Architecture	CreatedOn	Synchronize	ReSynchronize	CommandLine	Arguments
7 ZIP	18.01	18.01	x64	3/20/2018 12:11:04 PM	Yes	No	7 ZIP 18.01\7z1801-x64.exe	/S
Auda	scity 2.0.5	2.0.5	x64	4/20/2018 10:38:14 AM	Yes	No	Audacity 2.0.5\audacity-win-2.0.5.exe	/verysilent
Firefo	bx 4.42	4.42	x64	4/4/2018 1:16:25 PM	Yes	No	Firefox 4.42\Firefox Installer.exe	-ms
Googl	gle Chrome 1.3.33.7	1.3.33.7	x64	4/4/2018 12:30:14 PM	Yes	No	Google Chrome 1.3.33.7\ChromeSetup.exe	/silent /install
☐ Notes	pad Plus 7.5.4	7.5.4	x64	4/3/2018 5:12:18 PM	Yes	Yes	Notepad Plus 7.5.4\npp.7.5.4.Installer.exe	/S
Office	e 2010	2010	x64	4/20/2018 11:06:47 AM	Yes	No	Office 2010\Setup.exe	/config "C:\Office 2010\ProPlusr.WW\config.xml"
Skype	e 7.41	7.41	x64	4/4/2018 12:48:09 PM	Yes	No	Skype 7.41\SkypeSetupFull.exe	/VERYSILENT /SP- /NOCANCEL /NORESTART /SUPPRESSMSGBOXES /NOLAUNCH



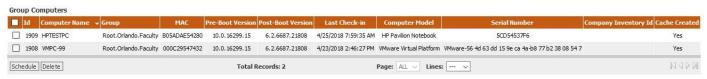


7

application installation history

Application installation history from each computer is updated on the Persystent Web Console. You can view status of each application installation for every computer.

- Login to the WebUI.
- Expand the Persystent Server on the left-hand side tree.
- Click on the Computer Group or the Server where the computer is located.
- Click on the computer for which you would like to see the application installation history.



- Click on the History tab.
- · Click on the Application History tab.
- Application history will be displayed based on when the computer had installed each application.







application installation report



- Login to the WebUI.
- Expand Reports.
- Click on Application Deployment Summary report.
- Search options:
 - Application Name Specify name of an application or leave it blank for all applications.
 - Computer Specify name of a computer or leave it blank for all computers.
- Select desired report option
 - HTML Report Results are displayed in the WebUI.
 - MS Excel (XLS) Results are exported in excel format.
- Click Search.
- Results are displayed in selected format.





application installation report



_	t				- o ×
←) → ♂ ŵ	(i) 192.168.1.138/PtcWeb/Default.aspx			··· ▼ ☆ Q Search	IIN 🗊 🗏
persystent' SUITE"					E Logout
B-∰ Servers ⊕ ∰ Orlando	^ Site: Site, Group: Application Deployment Summary Report				
Faculty	Report				
Inherited Computers Staff	Application Deployment Report				
Students □ (□ UTOPIC-AD01)	Report Format				
Inherited Computers		Choose Report Format:	HTML Report V		
⊕ ∰ WIN-3T426QHMJ2I ⇒ 6 Schedule		Choose Report Formac	THE ISSUED C		
Task	Search				
Policy	Scarci				
Post Boot		Application Name:	ALL		
Pre Boot		Computer:	ALL		
Event Piters			Search Reset		
User			Sedici Reset		
⊞ & Reports					
Policies by Group					
Policies by Computer					
Computer Schedule					
Software Inventory					
Hardware Inventory					
Software Summary					
Hardware Summary					
System Inventory					
- Volume Inventory					
Processor Inventory					
Server Summary					
Computer Repair Points Summary					
Repair Summary					
- 🐼 Inherit Status Summary					
Schedule Status Summary					
Decommission Computers Summary					
Imaged Computers Summary					
File Change Report					
Application Deployment Summary	•				
>					
					Copyright 2003-2018 Utopic Software. All rights reserve



application installation report



tion Deploymen	it Report							
pplication Depl	oyment Report							
plication Id	Computer Id	Name →	MACAddress	Application	Version	Installed0n	LastCheckIn	AgentVersion
5	461	DPMAIN-LAPTOP	D89D67CB0FD5	7 ZIP 18.01	18.01	4/18/2018 11:33:18 AM	3/21/2017 10:05:27 AM	5.37.6155.16468
5	1909	HPTESTPC	B05ADAE54280	7 ZIP 18.01	18.01	4/23/2018 5:00:49 PM	4/25/2018 7:59:35 AM	6.2.6687.21808
l	1909	HPTESTPC	B05ADAE54280	Notepad Plus 7.5.4	7.5.4	4/23/2018 5:00:51 PM	4/25/2018 7:59:35 AM	6.2.6687.21808
1	1909	HPTESTPC	B05ADAE54280	Google Chrome 1.3.33.7	1.3.33.7	4/23/2018 5:01:14 PM	4/25/2018 7:59:35 AM	6.2.6687.21808
5	1909	HPTESTPC	B05ADAE54280	Skype 7.41	7.41	4/23/2018 5:02:04 PM	4/25/2018 7:59:35 AM	6.2.6687.21808
5	1909	HPTESTPC	B05ADAE54280	Firefox 4.42	4.42	4/23/2018 5:02:24 PM	4/25/2018 7:59:35 AM	6.2.6687.21808
7	1909	HPTESTPC	B05ADAE54280	Audacity 2.0.5	2.0.5	4/23/2018 5:02:32 PM	4/25/2018 7:59:35 AM	6.2.6687.21808
3	1909	HPTESTPC	B05ADAE54280	Office 2010	2010	4/23/2018 5:08:17 PM	4/25/2018 7:59:35 AM	6.2.6687.21808
3	1908	VMPC-99	000C29547432	Office 2010	2010	4/23/2018 12:28:15 PM	4/23/2018 2:46:27 PM	6.2.6687.21808
7	1908	VMPC-99	000C29547432	Audacity 2.0.5	2.0.5	4/23/2018 12:25:07 PM	4/23/2018 2:46:27 PM	6.2.6687.21808
5	1908	VMPC-99	000C29547432	Firefox 4.42	4.42	4/23/2018 12:25:02 PM	4/23/2018 2:46:27 PM	6.2.6687.21808
5	1908	VMPC-99	000C29547432	Skype 7.41	7.41	4/23/2018 12:24:11 PM	4/23/2018 2:46:27 PM	6.2.6687.21808
1	1908	VMPC-99	000C29547432	Google Chrome 1.3.33.7	1.3.33.7	4/23/2018 12:21:40 PM	4/23/2018 2:46:27 PM	6.2.6687.21808
ı	1908	VMPC-99	000C29547432	Notepad Plus 7.5.4	7.5.4	4/23/2018 12:20:48 PM	4/23/2018 2:46:27 PM	6.2.6687.21808
5	1908	VMPC-99	000C29547432	7 ZIP 18.01	18.01	4/23/2018 12:20:47 PM	4/23/2018 2:46:27 PM	6.2.6687.21808





Dhaval Patel

Email:dhavalpatel@utopicsoftware.com

Tel: 813-444-2230

Contact Support: support@utopicsoftware.com

