4000: Restoring to Dissimilar Hardware with Acronis Backup & Recovery 10 Universal Restore

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You need to use Acronis Universal Restore to recover the system backup of one machine to another one with dissimilar hardware

This article applies to:

- Acronis Backup & Recovery 10 Advanced Server
- Acronis Backup & Recovery 10 Server for Windows (Standalone)
- Acronis Backup & Recovery 10 Advanced Server - Small Business Server Edition
- Acronis Backup & Recovery 10 Advanced Workstation
- Acronis Backup & Recovery 10 Workstation (Standalone)
- Acronis Backup & Recovery 10 Advanced Server - Virtual Edition

Introduction

With Acronis Universal Restore you can recover system backup system of one machine to another one with dissimilar hardware.

Acronis Universal Restore is a module that allows changing Windows Hardware Abstraction Layer (HAL.dll) and install mass storage boot device drivers into the system.

It installs boot device drivers (e.g. hard drive or RAID controller drivers) into the system during the recovery process, so that the operating system can boot from this boot device. If there are proper NIC drivers present in the folder with the drivers, Acronis Universal Restore will copy them into the restored system and will schedule their installation on Windows boot-up.

(!) All the other drivers (e.g. video and sound card drivers, plug and play drivers) are not installed by Acronis Universal Restore, as they can be installed in Windows after the successful migration.

For more information see:

- Acronis Universal Restore
- Acronis Backup & Recovery 10 Editions
- Installing Acronis Backup & Recovery 10 Universal Restore

Solution

Before restoring the backup to a new computer with dissimilar hardware please ensure the following:

- You have Acronis Bootable Media with Acronis Universal Restore. See Installing Acronis Backup & Recovery 10 Universal Restore;
- The backup contains a supported Windows operating system. See Acronis Universal Restore;
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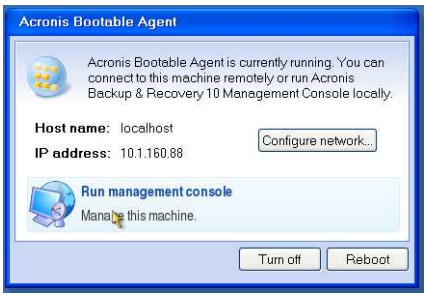
- You have drivers for the hard disk drive controller or chipset drivers for the new computer. These drivers are critical for booting the operating system. You can download the drivers for your motherboard on the Vendor's web-site. Please note, if you downloaded the drivers in *.exe, *.cab, *.zip format, you should extract them first. The driver files should have *.inf, *.sys or *.oem extensions.

(!) The product does not support or install plug and play drivers.

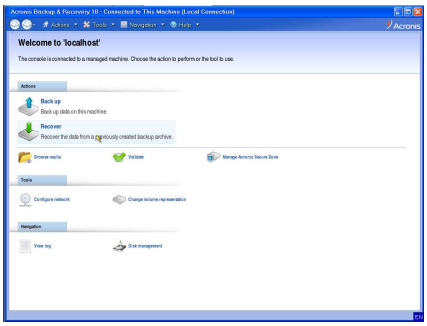
Restoring system backup using Acronis Universal Restore:

1. Boot the target machine from Acronis Bootable CD. (Make sure that the primary boot device is set to CD-ROM in BIOS):
2. Once loaded, select *Acronis Backup & Recovery 10*:

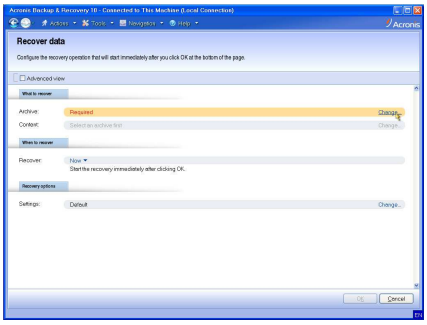
3. Click *Run management console (manage this machine)*:



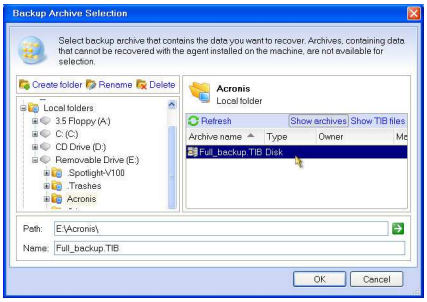
4. Click *Recover*:



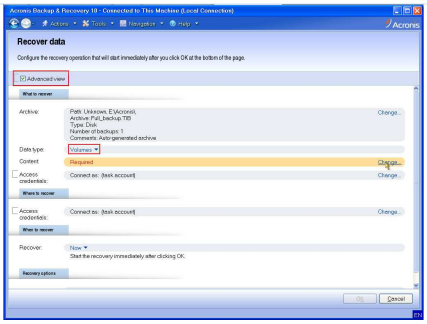
5. Click *Change* next to *Archive*:



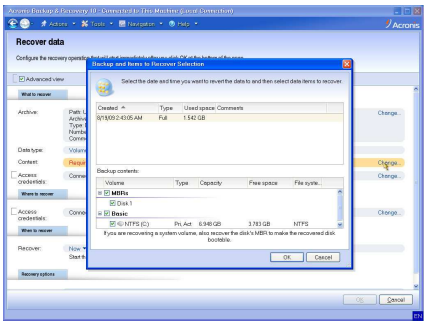
6. On the *Backup Archive Selection* screen choose the backup archive with system partition that you intend to recover:



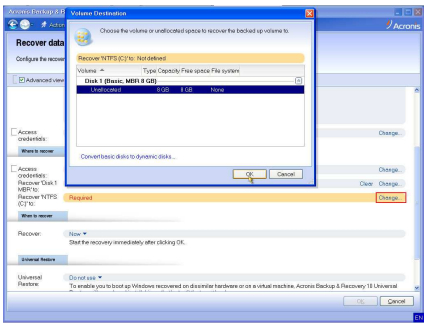
7. Enable *Advanced view*. Make sure that *Data type* is set to *Volumes* or *Disks*. Click *Change*:



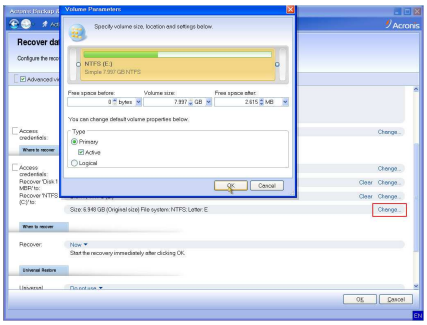
8. On the *Backup and Items to Recover Selection* screen choose the partitions or disk you want to recover:



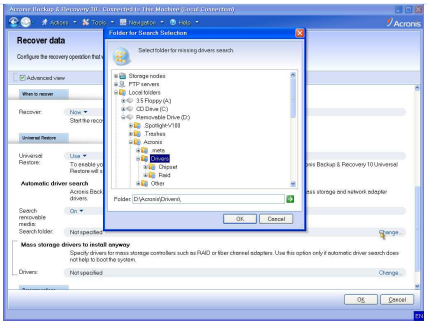
9. Click *Change* next to System C partition to specify the location where you want to recover the partition to. On the *Volume Destination* screen select the target partition or unallocated space to which the backup will be restored. In this case we are restoring to unallocated space:



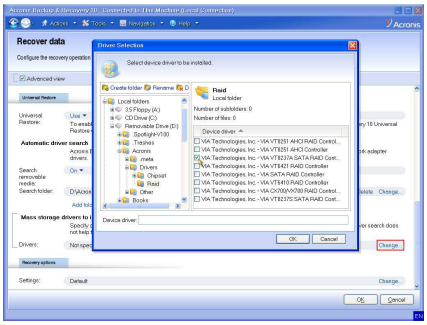
10. On the *Volume Parameters* window set the type *Primary-Active* for your system partition. If you do not set the type *Active* for your system partition, the machine will not boot. Also you can specify the target partition size here:



11. *Universal Restore* should be set to *Use*. Click *Change* next to *Search folder* and specify the folder with the drivers for the hard-drive controller of the new computer. This folder may contain both Raid and Chipset drivers, for example. Universal Restore will search this folder (with subfolders) for the appropriate driver automatically:



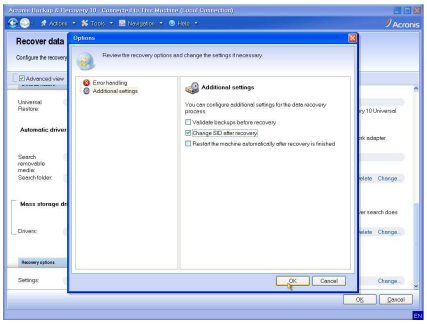
12. Click *Change* in the *Mass storage drivers to install anyway* section to specify drivers manually:



The recommendation is to specify the drivers manually. Hardware Vendors usually provide separate drivers for SCSI or RAID controllers. IDE or SATA drivers are usually included into the chipset drivers for the motherboard.

The HDD controller drivers are critical for operating system booting. Specifying drivers for other devices (video/sound card) is not recommended. Once you restore and boot the system, you can update all other drivers manually through Windows Device Manager (*Start -> Run -> devmgmt.msc*).

13. In *Recovery options* you can also check *Change SID after recovery*. If this option is enabled, the computer security identifier (SID) will be automatically changed after the restore:

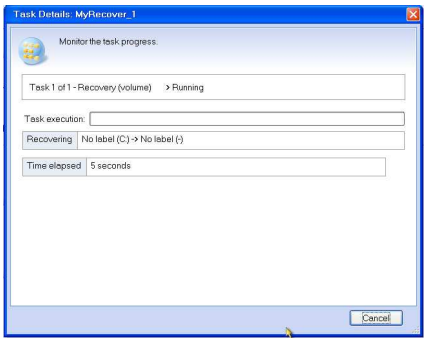


(!) If you want to run the system immediately after recovery without rejoining the domain or remapping network user profiles, do not change the SID.

(!) Never change the SID if you are restoring a Domain Controller machine. If you change SID, this may result in Windows boot failure after recovery due to problems with Active Directory (usually it is lsass.exe system error with 0xc0000084 error code).

14. After viewing the summary screen click *OK*:

15. The restore process will start:



(!) If Acronis Universal Restore detects unsupported devices (i.e. devices critical for booting - mass storage devices, the drivers for which are missing), it will ask for the necessary drivers. To identify the device by its PCI ID, refer to http://pciids.sourceforge.net/pci.ids

If the driver is still not accepted, it should be checked if it is the correct one by using a Windows installation CD and hitting F6. See Microsoft Knowledge Base Article 314859.

If, after the restore, the machine does not boot correctly, please boot in Safe Mode (hit F8) and check the drivers in Windows Device Manager.

More information

See also:

- Acronis Backup & Recovery 10 Does Not Prompt Acronis Universal Restore if You Select "Disks" to Recover
- Changing RAID Configuration without Changing RAID Controller Does Not Require Acronis Universal Restore
- Acronis Universal Restore
- Restoring to Dissimilar Hardware with Acronis True Image Home 2010 Plus Pack
- Acronis True Image Home 2011 Plus Pack: Restoring to Dissimilar Hardware with Acronis Universal Restore

Operating Systems:

Windows

Products:

Acronis Backup & Recovery 10 Advanced Server Acronis Backup & Recovery 10 Advanced Server Virtual Edition Acronis Backup & Recovery 10 Advanced Server SBS Edition Acronis Backup & Recovery 10 Server for Windows Acronis Backup & Recovery 10 Advanced Workstation Acronis Backup & Recovery 10 Workstation Acronis Backup & Recovery 10

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