



Acronis® Backup & Recovery™ 10

淺談備份在雲端

向勗全 Edward



Acronis[®] Backup & Recovery[™] 10

公司簡介

Introduce Acronis



Acronis Inc. 總公司


- 獨立之軟體公司,成立於2000年
 - 研發團隊位於美國麻州及俄羅斯
 - 業務及行銷人員,主要分佈於美國,亞洲及歐洲
- 成長最快速的公司之一
 - 每年營業額穩定成長20%以上
 - 名列全美成長最快速的500大
- 主要核心產品線
 - Acronis True Image
 - 全球技術領先於 Disk Imaging, Back-up 及 Disaster Recovery
 - 5項專利技術,審核中 (包括 “Snap Restore”)
 - 支援13種語言 (包括繁體中文, 簡體中文, 日文及韓文)



Introduce Acronis



- 產品獲得肯定

	Acronis True Image獲得 TrustedReviews 推薦獎
	軟體類最佳備份軟體
	在 Microsoft Tech Ed 獲得 "Attendee's Pick" 獎的最佳產品
	2008 年傑出獎 (全球最佳儲存產品)
	TopTen REVIEWS 金獎--磁碟影像類

更多的獎項與認證 <http://www.acronis.com.tw/company/awards/>



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大家所熟悉的Acronis

影像備份



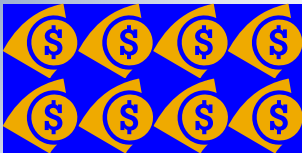
Recovery Point

10-30秒

01分

10-60分

>12小時

Hot DR		Warm DR	Cold DR
Cluster & HA	CDP 技術	影像備份技術 Acronis	傳統備份軟體 Backup to Tape
			

30-90秒

05分

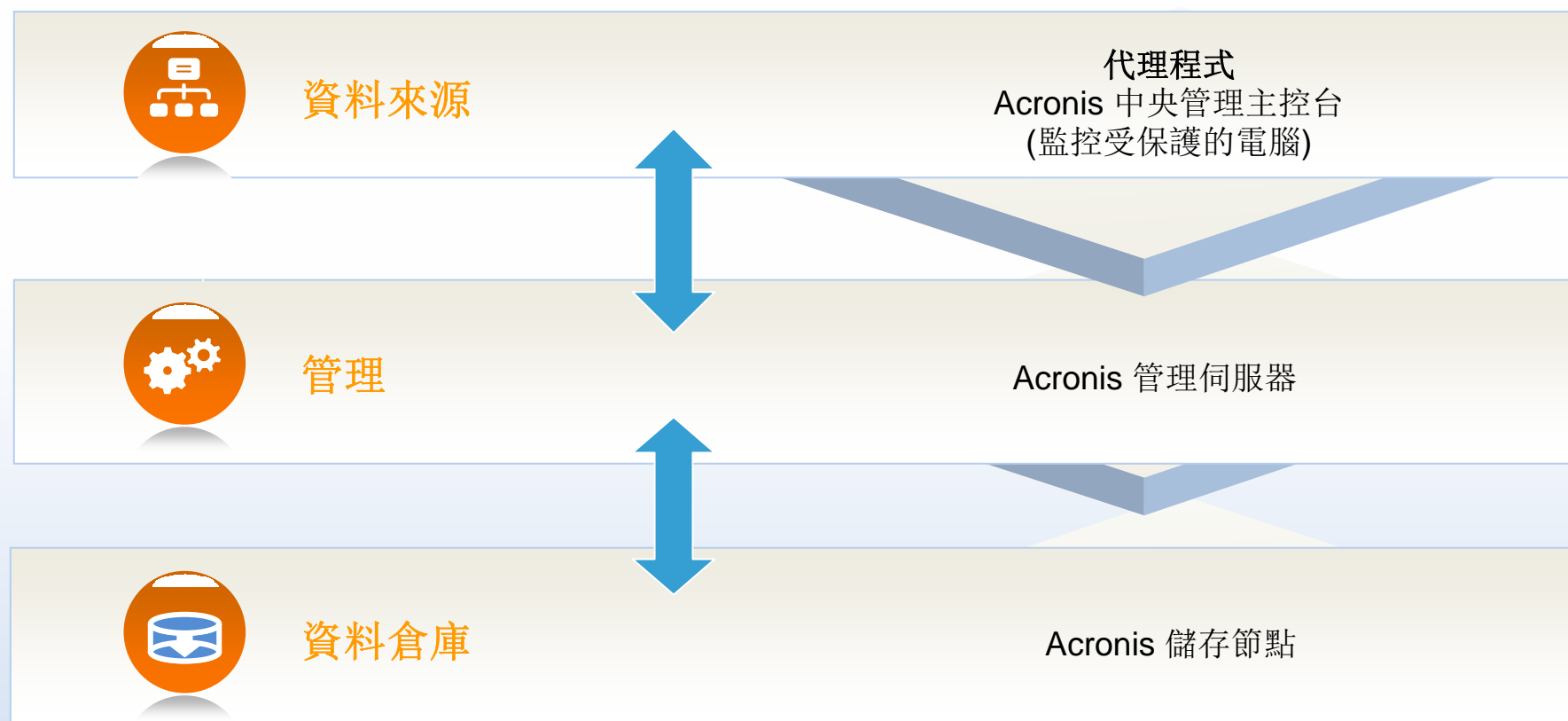
01- 04小時

>08小時

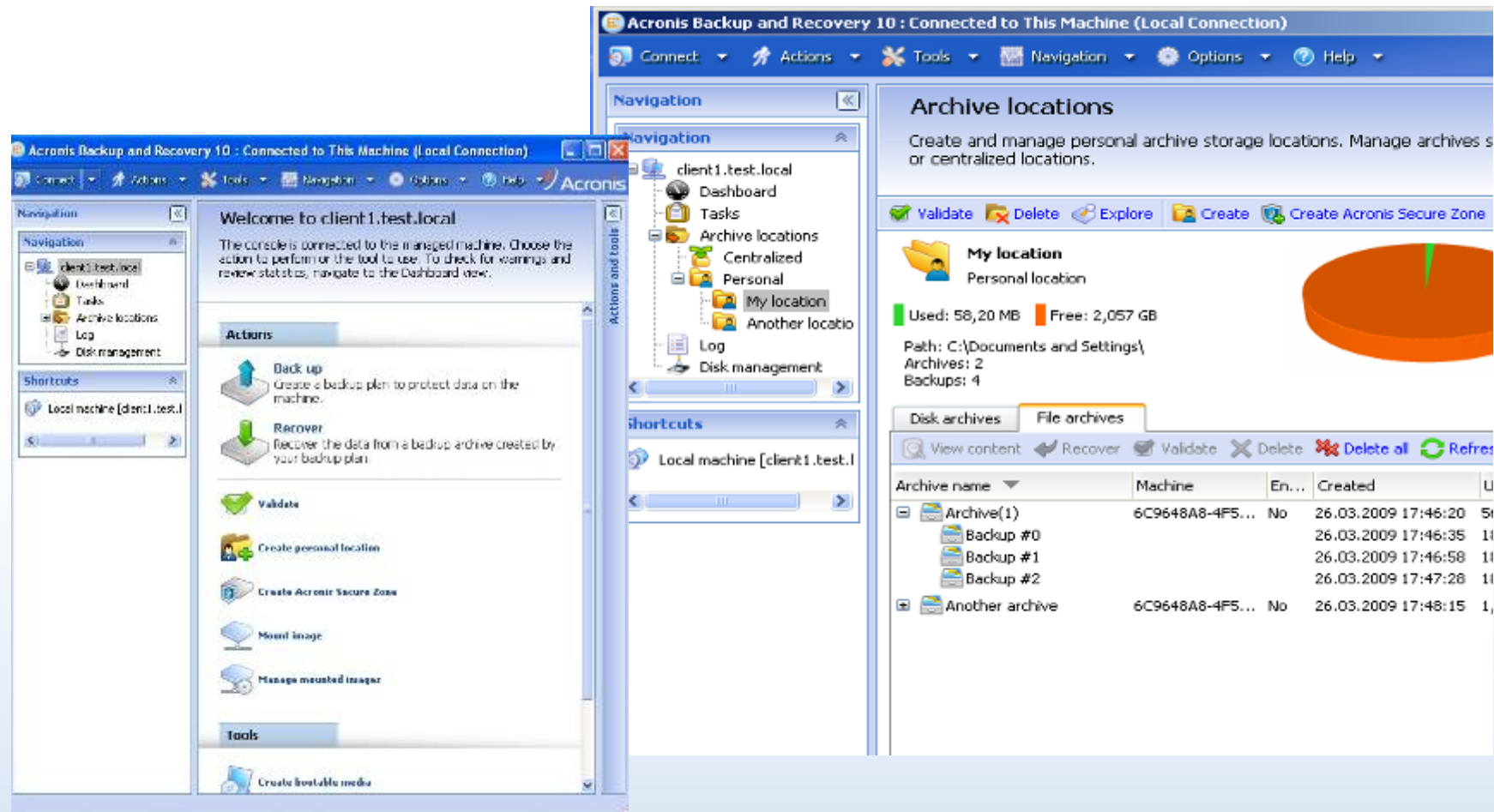
Recovery Time

三層式架構

提供更好的可靠性，性能和可擴展性

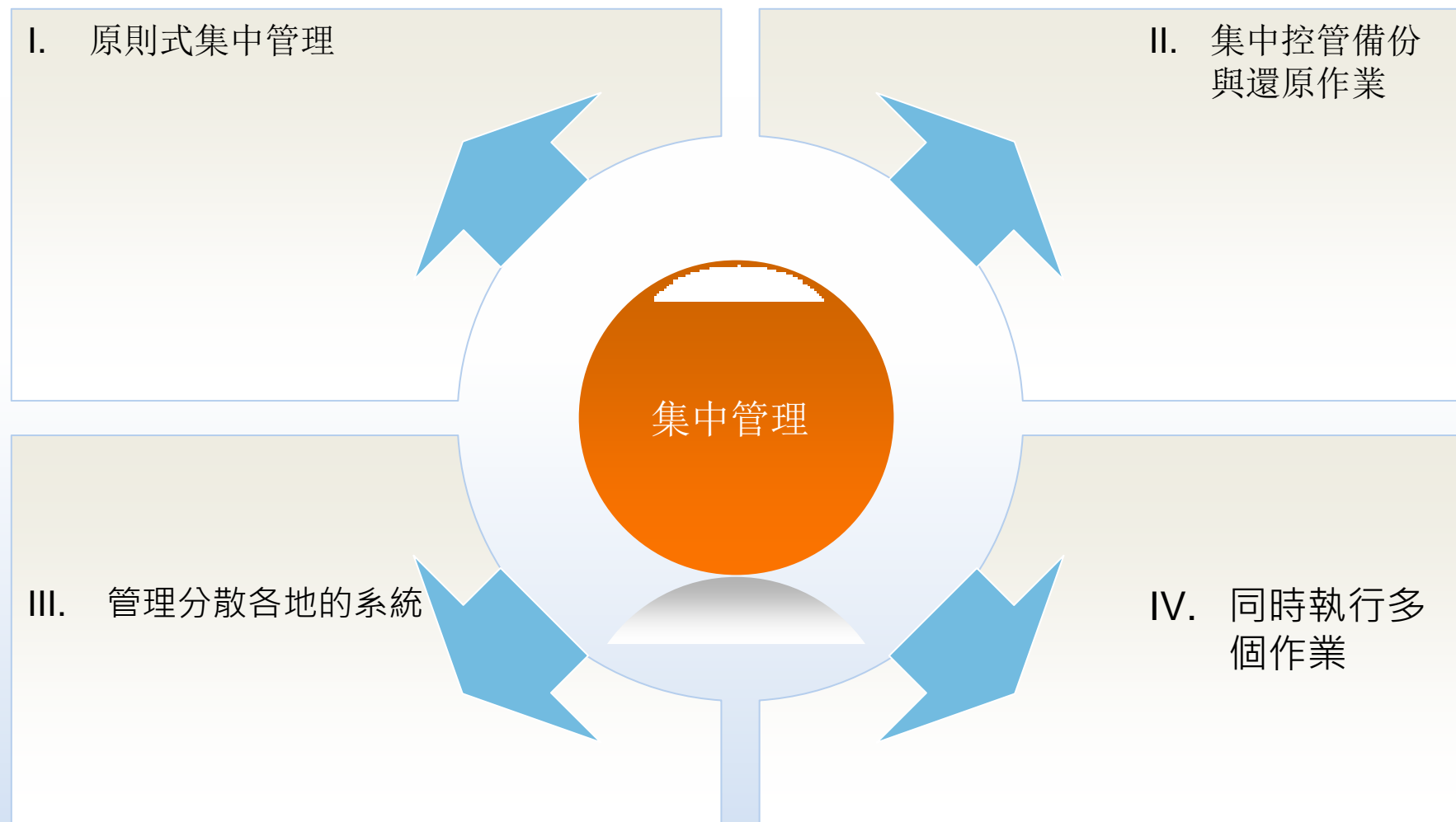


直覺易用的介面

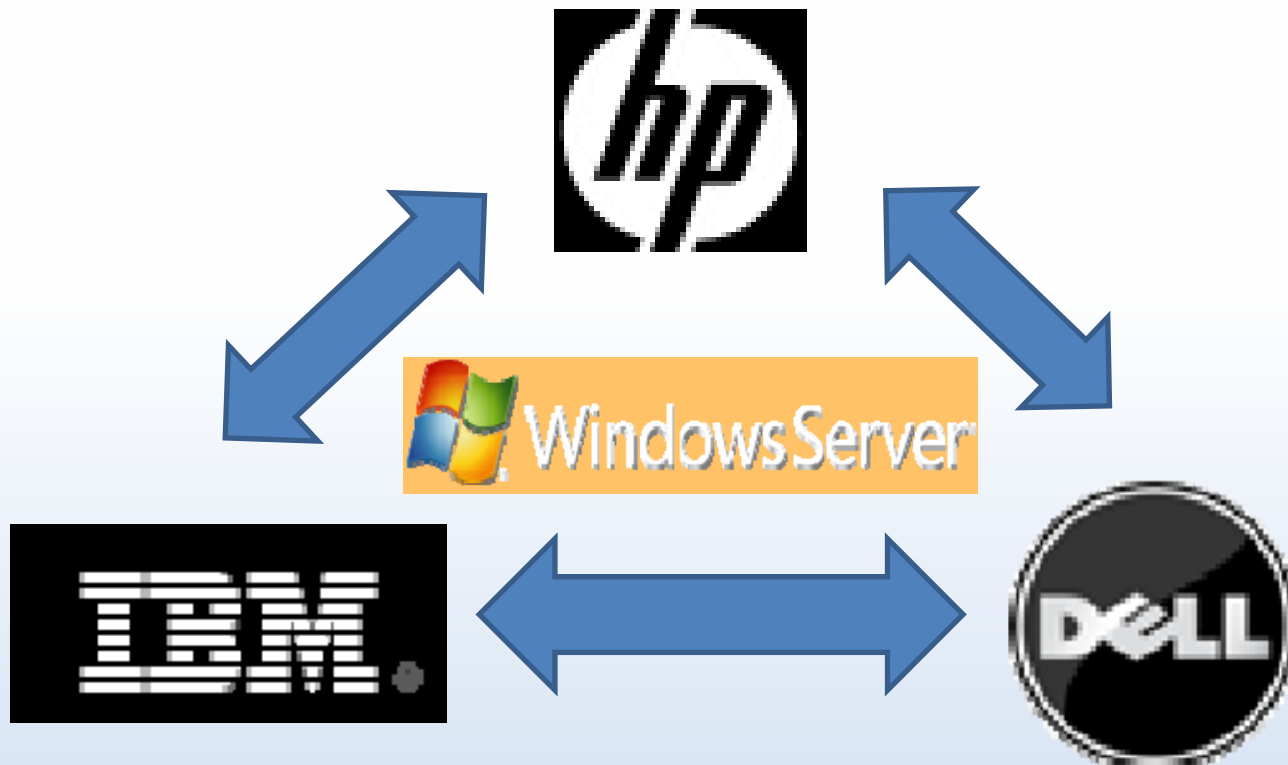


- ✓ GUI 經過改造，以切合企業需要。使用左側的樹狀目錄，瀏覽更方便。
- ✓ 以表單取代精靈，簡化工作設定。
- ✓ 單一畫面包含更多資訊，可減少切換內容的次數，並改善回應時間。

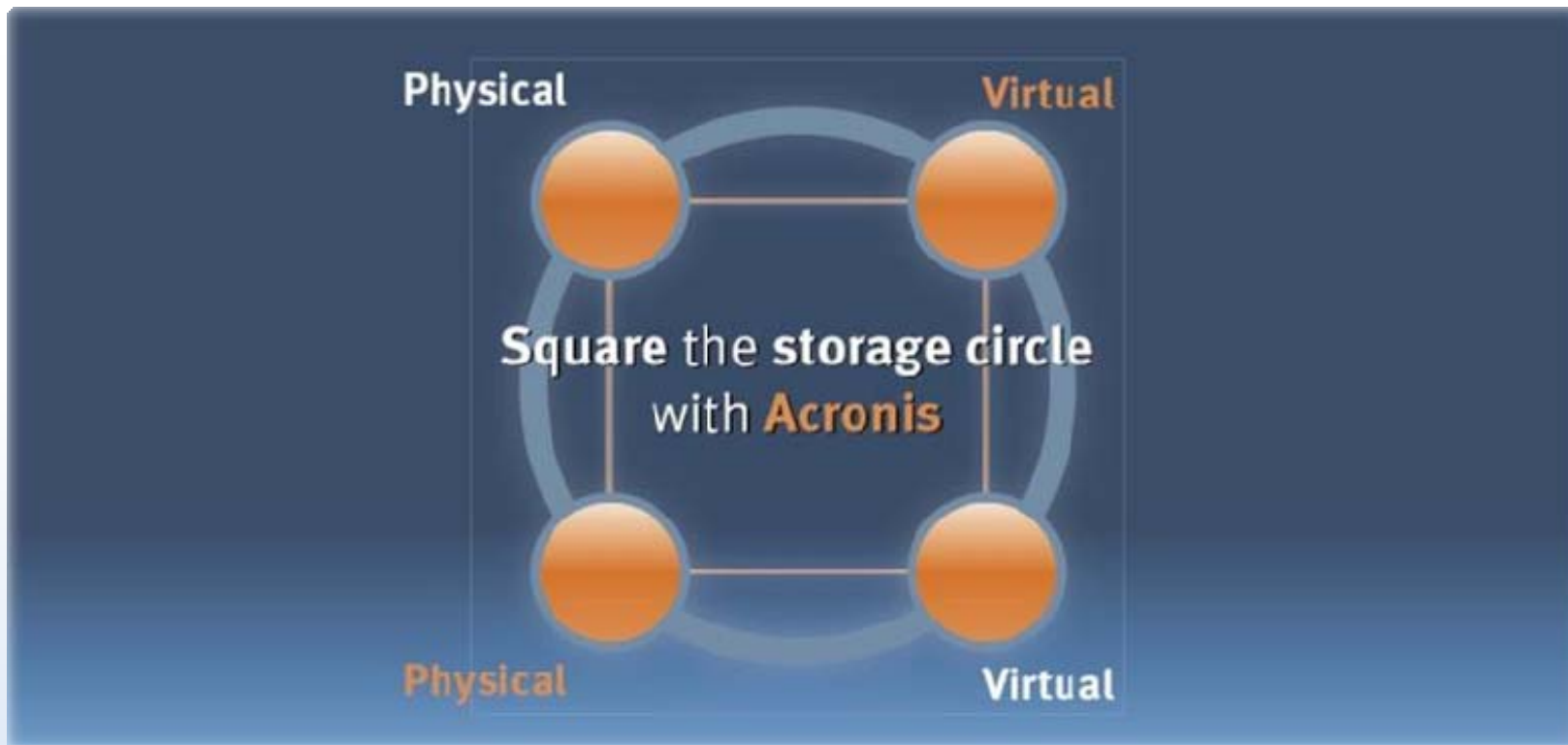
集中管理



異機還原



完整的方案



Acronis 提供客戶還原的選擇，不論是實體電腦或虛擬機器，亦不論形狀、大小、範圍或供應商為何

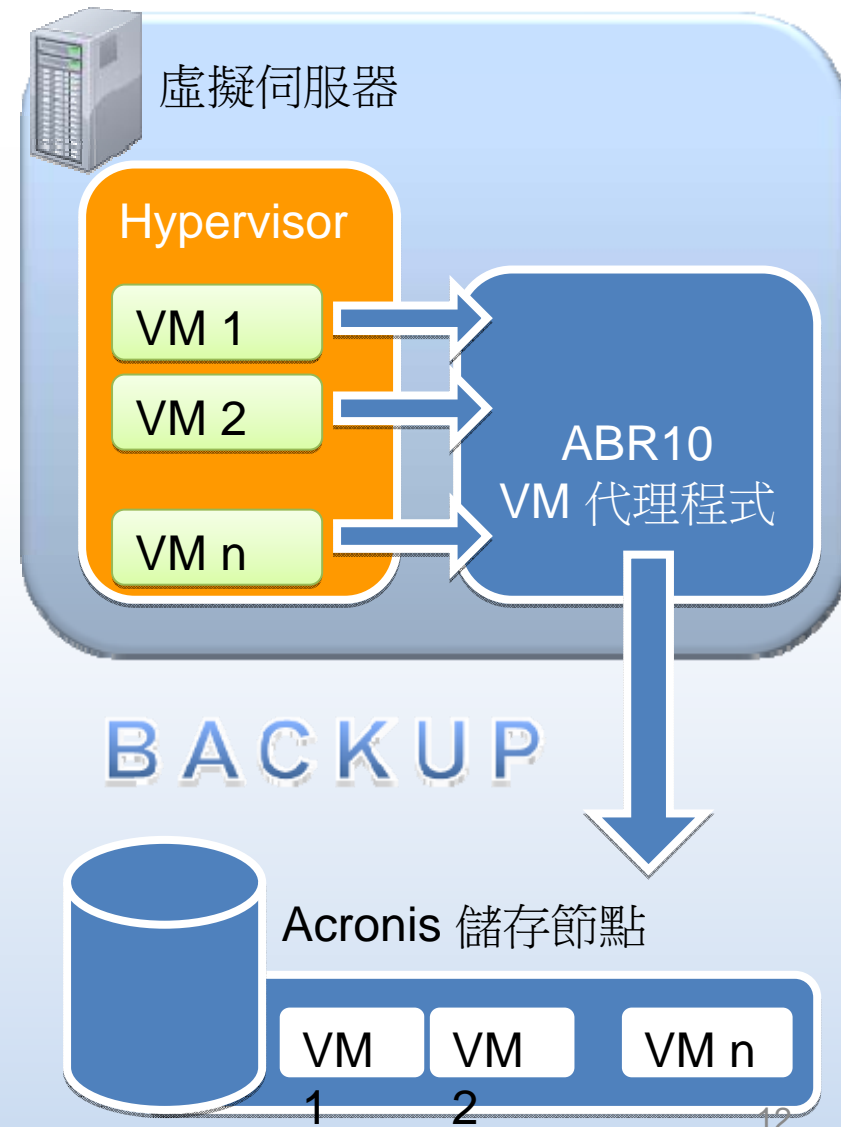
創新的 VM 備份方式 Virtual Edition

Backup from a host

- 不必在每一部虛擬機器上安裝個別代理程式即可備份整部虛擬機器(ESX & Hyper-V)
- 支援 VMware and VMware ESX、Microsoft Hyper-V、Citrix XenServer 以及 Parallels 等虛擬平台

無限制的虛擬化移轉授權

- 轉換ABR10備份到VM: 可以建立完整的虛擬環境而不只是單純的Vxxx檔而已
- 在還原也一樣適用, 包括自訂的磁碟對映

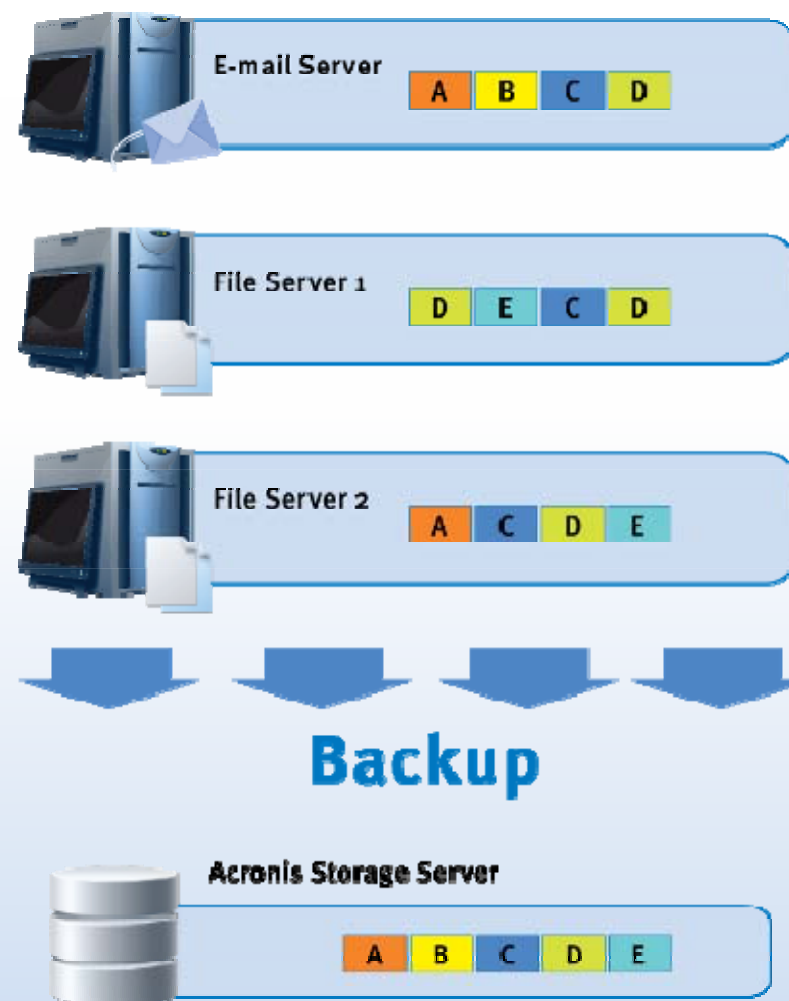


重複資料刪除

來源端或目標端檔案與資料區塊層級的重複資料刪除，可消除多餘的資料

Deduplication

- 能夠在集中管理的儲藏庫啟用/關閉該功能
- 檔案和區塊 dedup
- 來源和目的地的 dedup
- 如果檔案或是區塊的拷貝已經存在儲藏庫中，僅連結會被儲存而非另一個拷貝
- 使用來源的 de-dup，另一個拷貝甚至不會傳到網路上
- 適用於完整，增量和差異備份





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雲端備份的挑戰

Drivers Fueling Backup & Recovery Demand

Data availability and business continuity recovery time objectives

Increased reliance on business critical applications

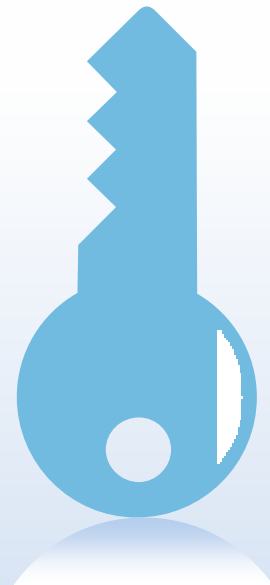
Increasingly complex environments: Virtualization / Cloud Computing

Regulatory compliance mandates

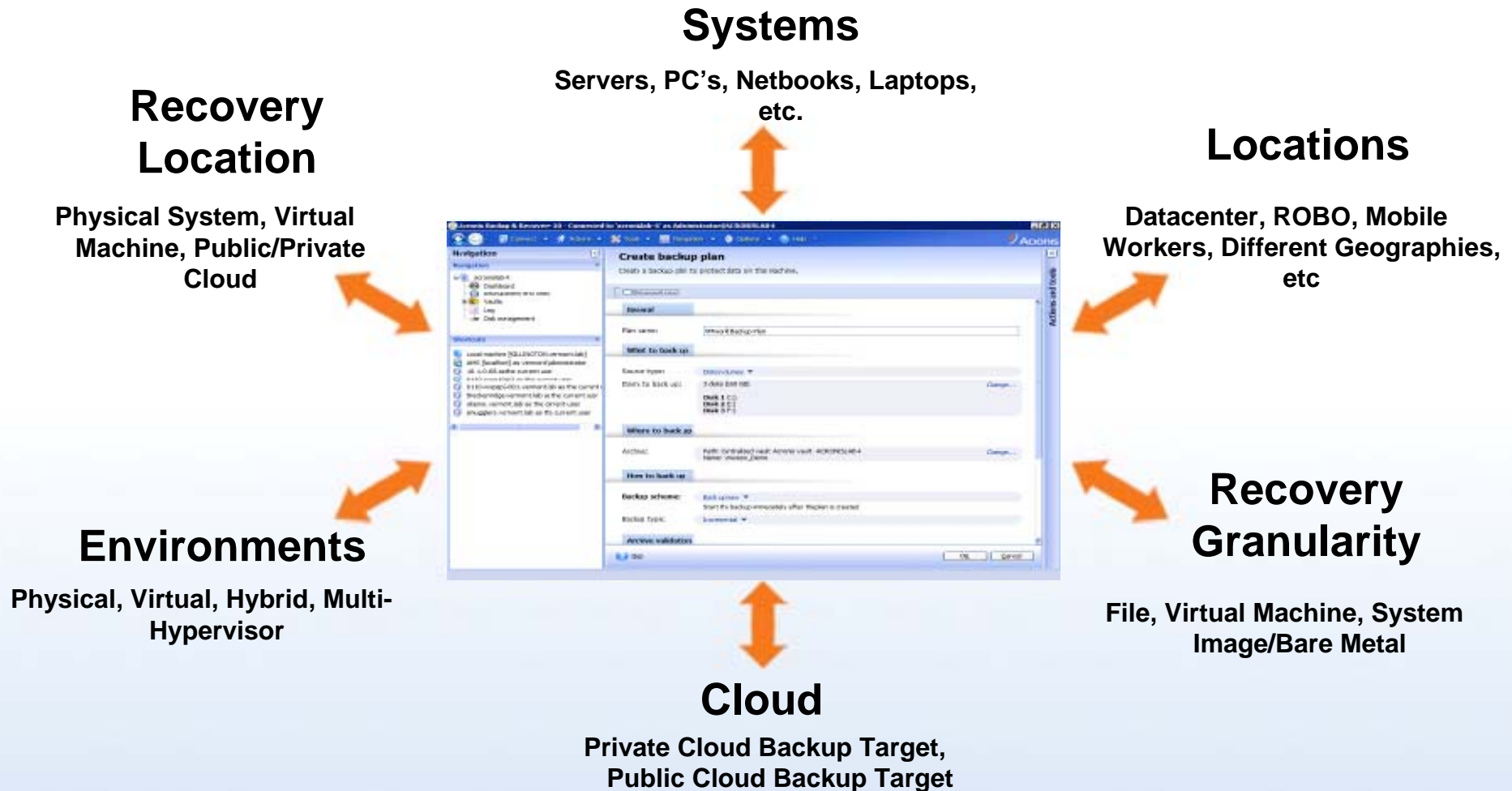
Data storage growing rapidly

Acute pressure to reduce data protection costs and total cost of ownership

- Increase operational efficiency
- Optimize storage resources



Major Complexities for Customers with Backup & DR Planning



Backup & DR Planning: Systems



Challenges

- Servers
- PC's
- Netbooks
- Laptops



Requirements

- Support multiple devices in typical customer environment
- Optimized for specific hardware & software of each device
- One console to manage all devices while offering detailed grouping and policy management

Backup & DR Planning: Locations



Challenges

- Datacenters
- Mobile Workers
- Remote Office Branch Office (ROBO)
- Different Countries/Languages



Requirements

- Support for Network Optimization for ROBO locations and mobile workers
- Support for several different localizations of product, depending on country of location
- Support for Datacenter Backup including Tape, Disk, FTP, Network Share, etc

Backup & DR Planning: Environments



Challenges

- Physical Equipment
- Virtual Servers
- Multiple OS and Multiple Hypervisor
- Hybrid Environments
- Migrations To and From



Requirements

- Management of both physical and virtual from one console
- Advanced capabilities for physical environments including deduplication, scalability, backup reporting, policy based management, security
- Optimized capabilities for virtual environments including Certifications, Agent-less backup, File level recovery, vCenter synchronization
- Support array of hypervisors including VMware, Microsoft, Citrix
- Unlimited migrations P2V, V2V, V2P
- Leverage virtual machine technology to offer innovative recovery capabilities -> Instant Recovery

Backup & DR Planning: Cloud



Challenges

- Security of public and private clouds
- Manageability of cloud environments together with on premise
- Support for public cloud targets
- Support for private cloud targets



Requirements

- Support public cloud as a backup target through partners
- Support private cloud as a backup target through turn-key solution
- Provide manageability of on premise and cloud resources from one console
- Link security practices and policies across physical and cloud mediums
- Secure data at rest as well as through transmission to and from the Cloud

Backup & DR Planning: Recovery Granularity



Challenges

- Several different recovery needs, based on recovery time objective and recovery point objectives
- Types of Recovery: Files, Full Systems, Virtual Machines, Files within vm's,
- Time to Recover: Minutes, Hours, Days, etc



Requirements

- Flexibility to recover a full system image to bare metal hardware which ensures the fastest recovery times...
- ...to the granularity to recover individual files themselves
- ...across both physical and cloud
- All with very granular recovery point's

Backup & DR Planning: Recovery Locations



Challenges

- Recover to similar hardware
- Recover into a virtual machine
- Recover locally from the cloud
- Recover into the cloud for ultimate disaster recovery protection



Requirements

- Ability to recover to any hardware
- Ability to recover from a physical machine into a virtual machine, pick your hypervisor
- Ultimate DR capability and recovering into the Cloud vs. Local

Planning Requirements for Backup & DR Across Physical / Virtual / Cloud



Identify your environment today and for the next 3 years

- Map out what you have in place now – equipment, applications, backup systems
- How will equipment and applications change in the short term and then the long term?
- How are those changes going to impact your backup and recovery plans?

Planning Requirements for Backup & DR Across Physical / Virtual / Cloud



Identify and properly plan out your RTO and RPO

- Sort your server and application population into tiers of importance
- Establish RTOs and RPOs for each
- Determine the resources needed to recover them in order of importance
- Group them for efficient, cost-effective recoveries

Planning Requirements for Backup & DR Across Physical / Virtual / Cloud



Decide how you want to leverage technologies including Virtualization and Cloud for your Backup and DR Process

- Virtualization includes powerful inherent capabilities that can reduce the cost of recovering to an alternate location
- Cloud offerings open up a new world of alternatives to building dedicated DR facilities

Planning Requirements for Backup & DR Across Physical / Virtual / Cloud

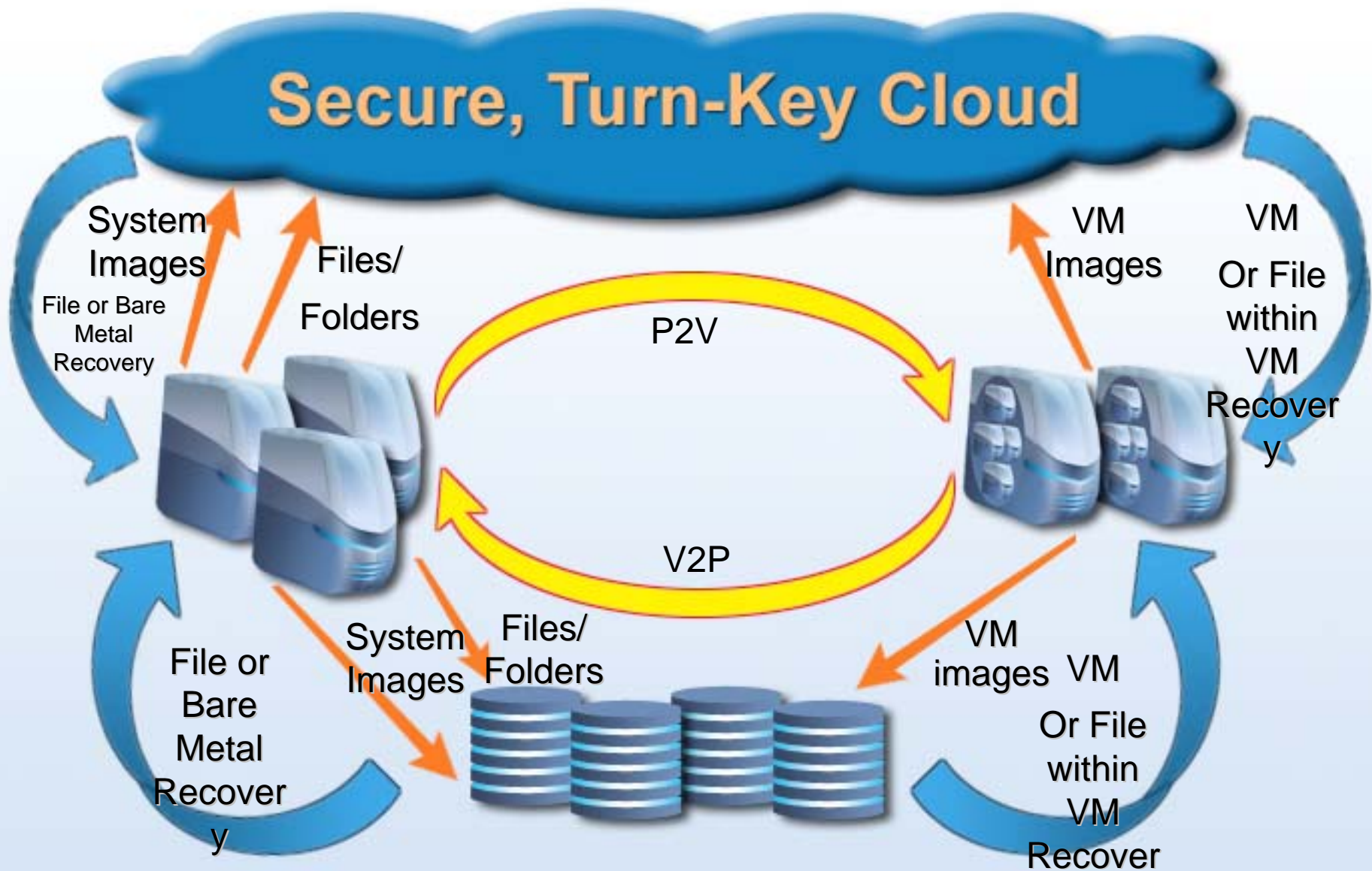


Research Alternative Solutions and Limitations of Each

- Many options exist that have different sets of capabilities, but also different sets of gaps. Be sure to analyze the advantages and disadvantages of each...
- but be agile enough to consider new alternatives that will allow you to do even more, even on a level budget

Optimal Solution for Backup & DR

Acronis Physical / Virtual / Cloud



Acronis Backup & Recovery 10 Family



Acronis Backup & Recovery 10 Family



Server / Workstation

Image and File
Backup of Physical
Systems

Virtual Edition

-Virtual Machine
Optimized Backup and
Recovery

Online

Image and File
Backup to the Cloud

Other Based Integration and Solutions

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Acronis Backup & Recovery 10 Family



Server / Workstation

Image and File
Backup of Physical
Systems

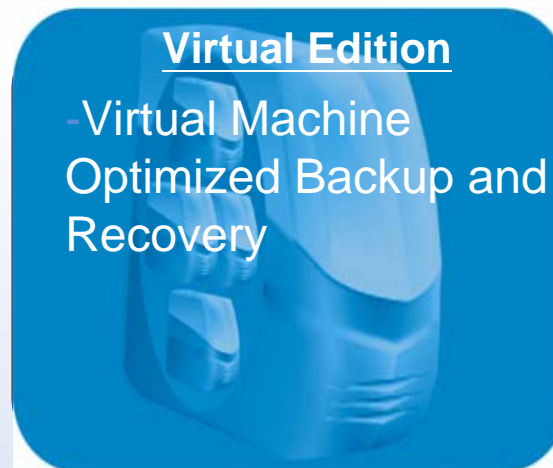
- ✓ Centralized Dashboard
- ✓ Policy Based Management
- ✓ Universal Restore (recover to dissimilar hardware)
- ✓ Scalability
- ✓ Application Support (through add ons)
- ✓ Deduplication (add on)
- ✓ Windows / Linux
- ✓ Backup Reporting
- ✓ Backup to disk, tape, FTP, Network, etc.

Acronis Backup & Recovery 10 Family

Acronis Backup & Recovery 10 Family



- ✓ Agentless Backup
- ✓ Instant Recovery
- ✓ Deduplication
- ✓ P2V/V2V/V2P
- ✓ ESX/ vSphere/
ESXi/ Hyper-V/
XenServer/
Parallels Support



- ✓ vStorage API
integration and VCB
support
- ✓ Support for VMware
vMotion, Clusters,
and HA
- ✓ vCenter
Synchronization
- ✓ File level recovery
from a virtual
machine image

Acronis Backup & Recovery 10 Family

Acronis Backup & Recovery 10 Family

- ✓ Secure, Turn key Cloud Offering
- ✓ Integrated Management with Physical / Virtual environments
- ✓ Image & File Backup to the Cloud
- ✓ Agentless virtual machine backup to the cloud
- ✓ Large scale data seeding & recovery
- ✓ Remote restore
- ✓ Universal restore built in
- ✓ User authentication and AES-256 data encryption



問與答

