

LICENSE PACKAGE backup / recovery DPS DD VE



The most fresh version of this document, you will find at:

<https://inside.dell.com/docs/DOC-325351>

DELLEMC

Daniel.Olkowski@dell.com

DPS DD VE

Agenda

- Why **DPS DD VE**?
- **DPS DD VE** – How does it look in my environment?
- **DPS DD VE** licensing
- What do I get with **DPS DD VE**?
- For who is **DPS DD VE**?
- Can **DPS DD VE** grow with me?

DPS DD VE

Agenda

- **The power** of DPS DD VE
- Example quotations
- Comparison: DPS DD VE vs DPS4VM
- More info

DPS DD VE

Why?

Example of environment

Site A

1 standalone
server



1 server
with VMs



30 VMs

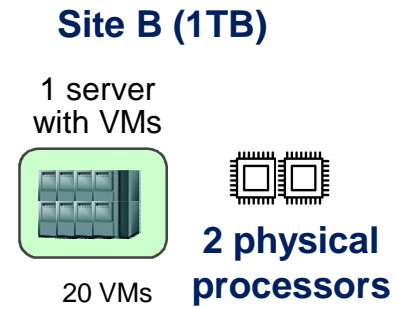
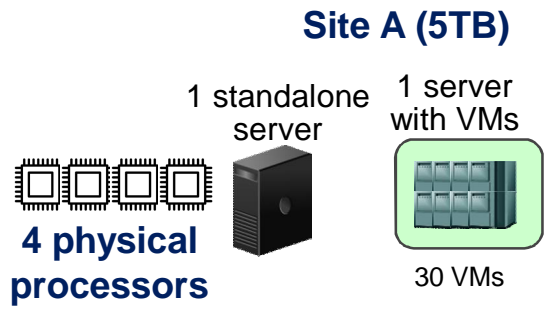
Site B

1 server
with VMs

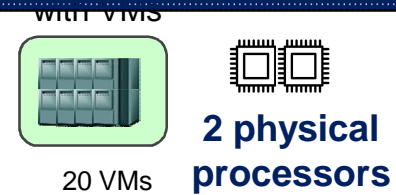
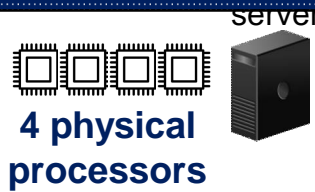


20 VMs

Example of environment



We need to protect this SIMPLE environment



We need to protect
this SIMPLE environment

We want to use our own
infrastructure for backup
(servers, storage)

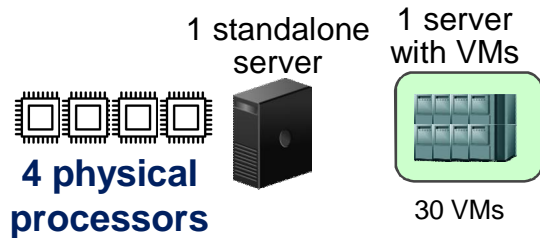
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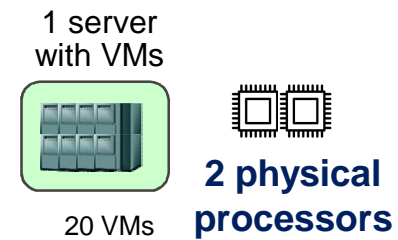
Minimal investment at the
beginning

But no compromise!

Site A (5TB)



Site B (1TB)



But no compromise!

Site A (5TB)

Site B (1TB)

**For this SIMPLE environment,
we want to have all the beauty of
modern backup software:**

But no compromise!

Site A (5TB)

Site B (1TB)

For this SIMPLE environment,
we want to have all the beauty of
modern backup software:

What is the beauty of modern
backup software?

We would like to have all the top functionalities available in backup solutions:

- Huge backup speed
- Virtual Synthetic
- Frequent backups
- Full backups

- Ransomware protection
- Disaster Recovery
- Source de-duplication

We would like to have all the top functionalities available in backup solutions:

- Fast recovery
- Recovery by data owner
- Recovery of single email / file / table
- Recovery to any point in time

- VMware / Hyper-V / OpenStack protection
- Storage agnostic
- Client Direct

We would like to have all the top functionalities available in backup solutions:

server with VMs

- Automated backup of new VMs
- Easy solution
- Protection of all data types (Servers, Laptops / DBs / Files / VMs)

with VMs

- All inclusive (*no hidden cost*)
- Searching data in backups
- GDPR
- Reporting

We would like to have all the top functionalities available in backup solutions:

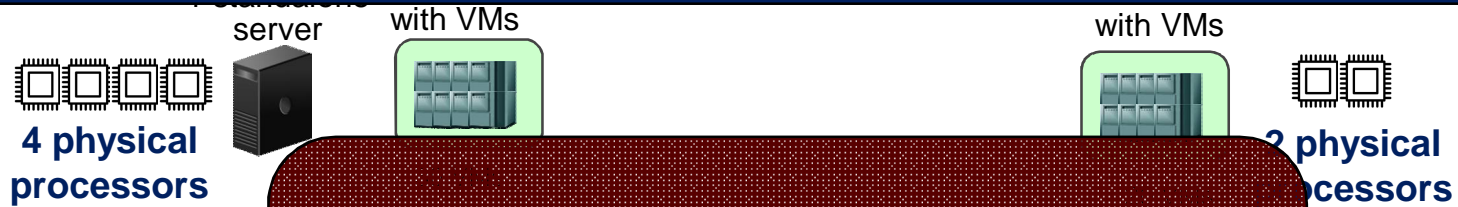
server with VMs

- Cloud ready
- Disaster recovery in cloud

with VMs

- Strongly developed
- Possibility to grow with me

Even We would like to have all the top functionalities available in backup solutions:



And more!

Example of environment



So what is the problem?

The problem:

1 standalone
server

1 server
with VMs

1 server
with VMs

When we choose good solution
even for simple solution...

The problem:

1 standalone
server

1 server
with VMs

1 server
with VMs

When we choose good solution
even for simple solution...

... we need to invest a lot in:

- Backup software
- Backup hardware

The problem:



Also, usually

- Reliable solution is expensive
- Reliable solution is complicated

But we just want to have something:

- for start
- for our simple environment
- using as much as possible our current infrastructure

Example of environment

Something simple for our new

- IT
- Office
- Department
- New environment
- VxRail

Example of environment

**Something without big
investments at the beginning!**

processors

20 VMS processors

Example of environment

**Something without big
investments at the beginning!**

processors

20 VMS processors

But scalable, growing with me

Example of environment

Something without big
investments at the beginning!

processors

20 VMS processors

But scalable, growing with me

And the best on the market!

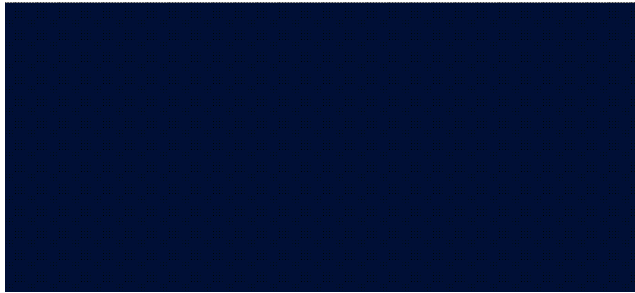
Can we?

DPS DD VE

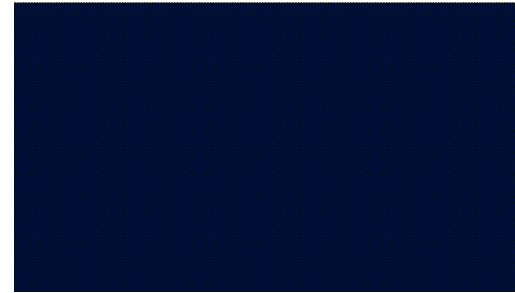
How does it look in my
environment?

Example of environment

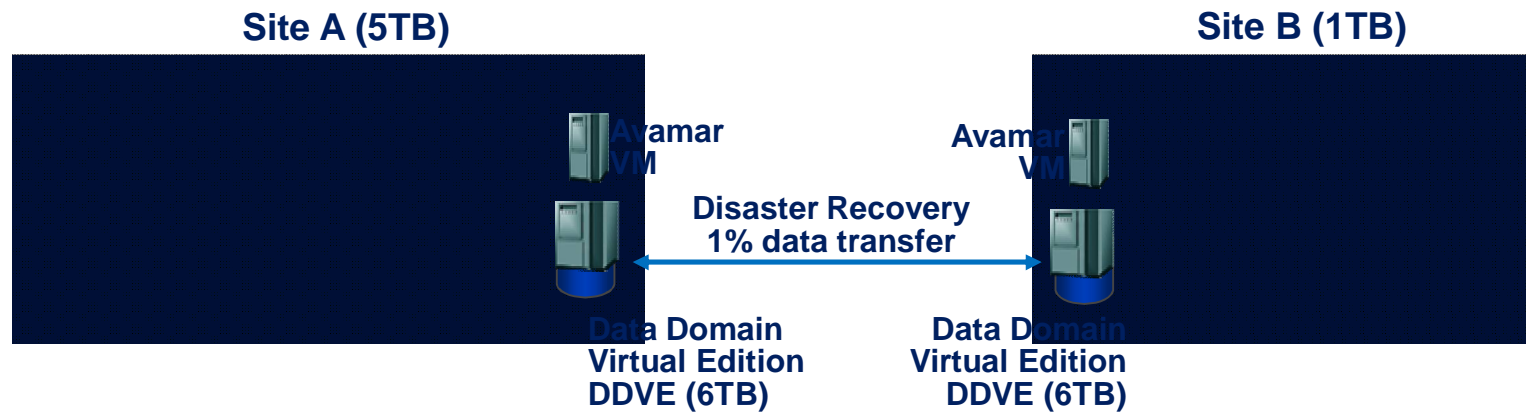
Site A (5TB)



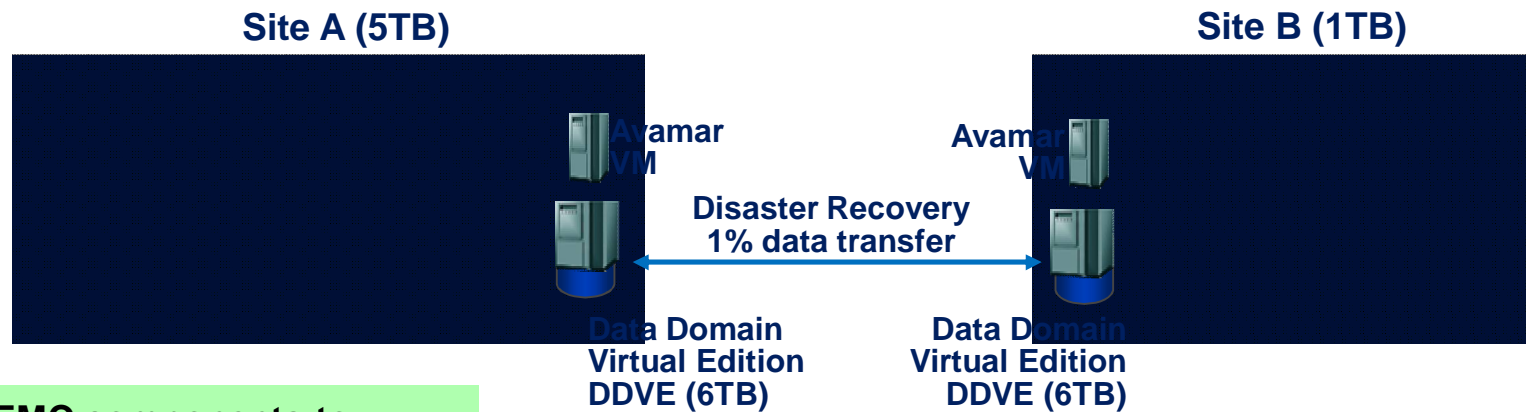
Site B (1TB)



Example of environment Protection



Example of environment Protection

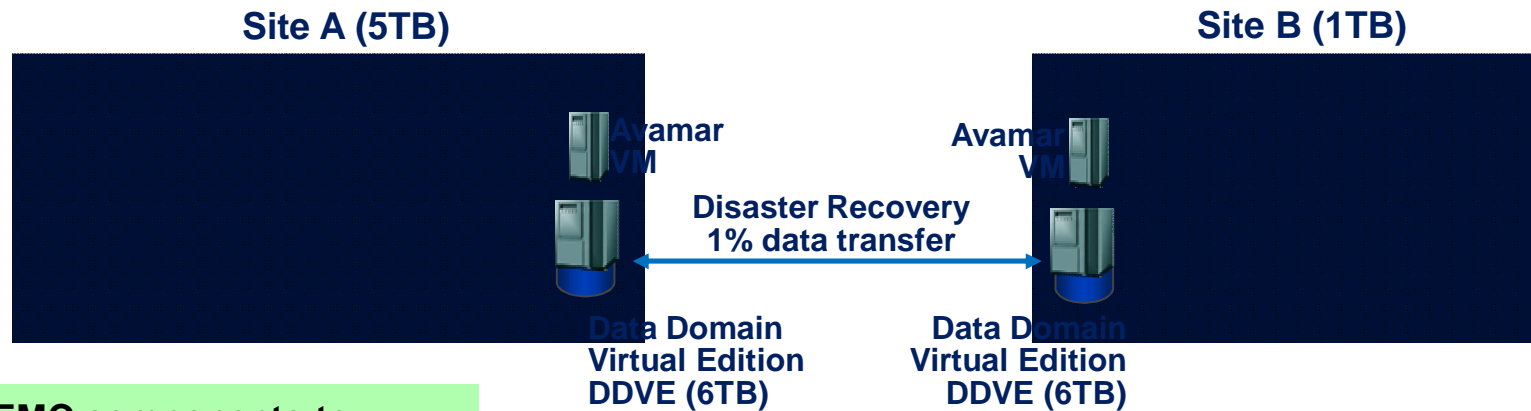


Dell EMC components to protect the environment

DPS DD VE 6 processors

- 2 * Avamar VE (unlimited modules, functionality)
- 12TB Data Domain Virtual Edition
- RecoverPoint for Virtual Machines
- Search
- DP Advisor / DP Central

Example of environment Protection



Dell EMC components to protect the environment

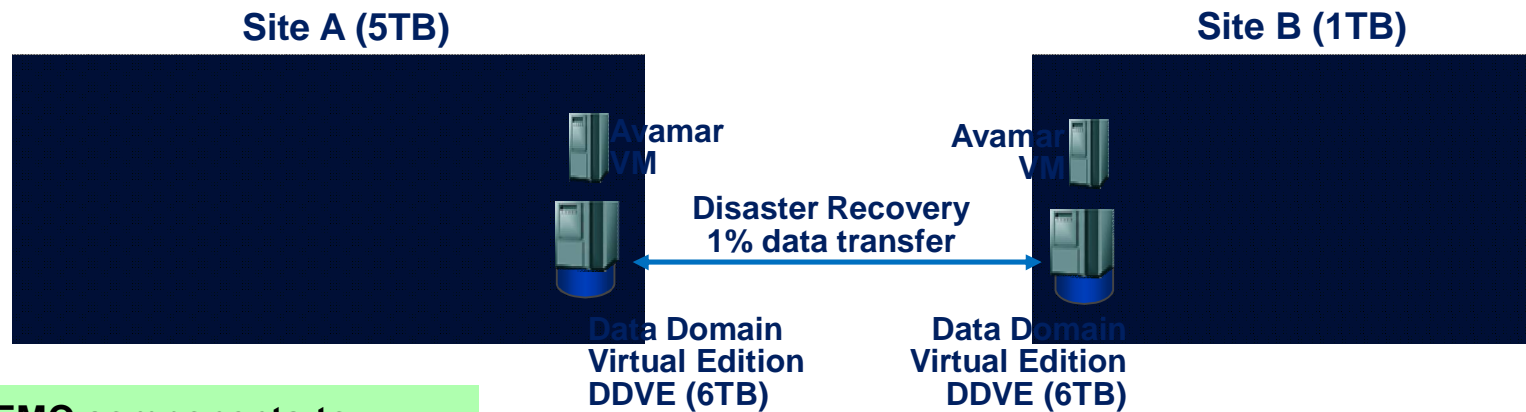
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Additional components that we may need

- 1-6 TB storage for DDVE (per site)
- Potential storage for RP4VMs
- VMs for AVE / DDVE / ...

Example of environment Protection



Dell EMC components to protect the environment

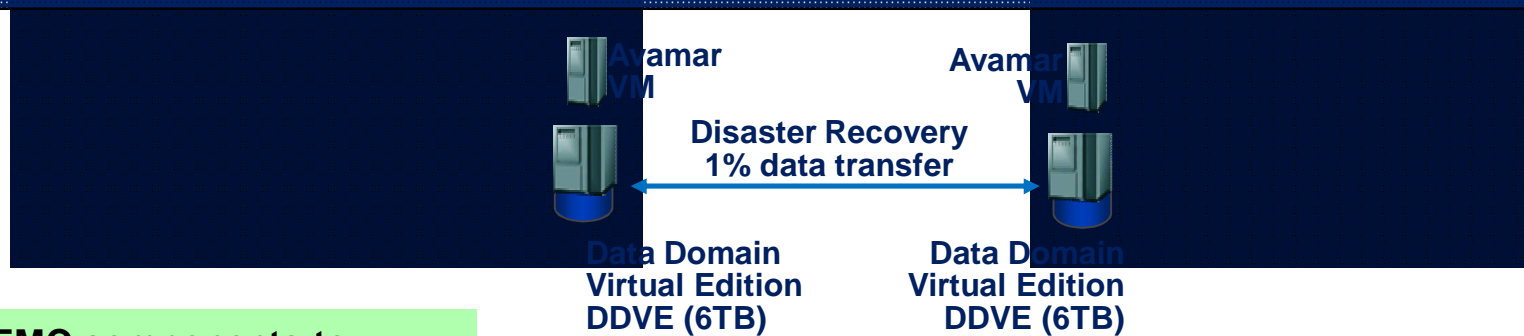
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Avamar as backup server is just VM in my environment



Dell EMC components to protect the environment

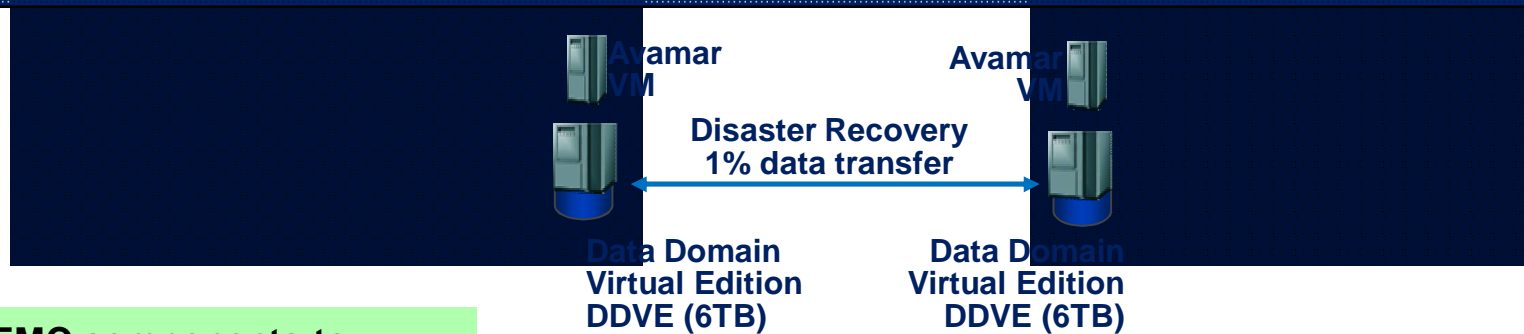
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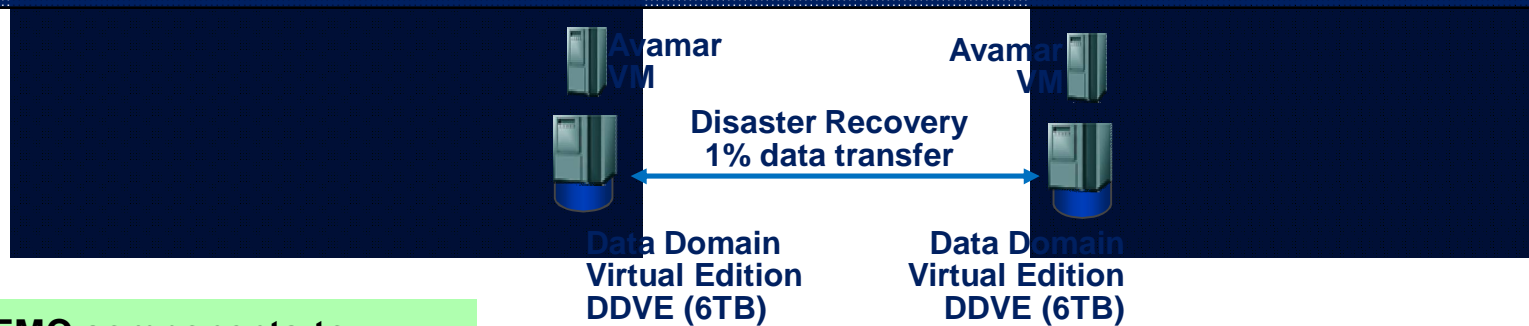
DPS DD VE 6 processors

- 2 * Avamar VE (unlimited modules, functionality)

Additional components that we may need

DDVE is just VM with attached storage that I have available

Minimal resources / no hardware investments



Dell EMC components to protect the environment

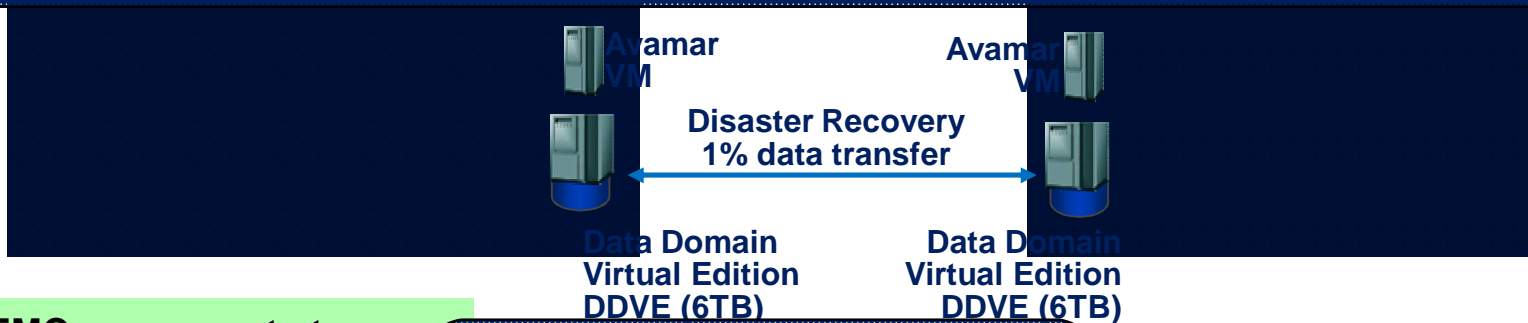
DPS DD VE 6 processors

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Additional components that we may need

- 1-6 TB storage for DDVE (per site)
- Potential storage for RP4VMs
- VMs for AVE / DDVE / ...

Minimal resources / no hardware investments



Dell EMC components to protect the environment

DPS DD VE 6 processors

- 2 * Avamar VE (unlimited media agents)
- 12TB Data Domain Virtual Edition
- RecoverPoint for Virtual Machines
- Search
- DP Advisor / DP Central

BUT

Additional components

Additional capacity need

- 12TB storage for DDVE (per site)
- Potential storage for RP4VMs
- VMs for AVE / DDVE / ...

Examples of existing content

Foundation

All Avamar:

- Modules
- Features
- Disaster Recovery capabilities
- Values
- High end functions
(*vRealize / vCloud / ...*)

• Security

• DP Advisor / DP Central

Example of environment

P

All Data Domain Virtual Edition:

- Speed
- Features
- Source de-duplication
- Snapshots
- Logical Data Domain
- Disaster Recovery capabilities

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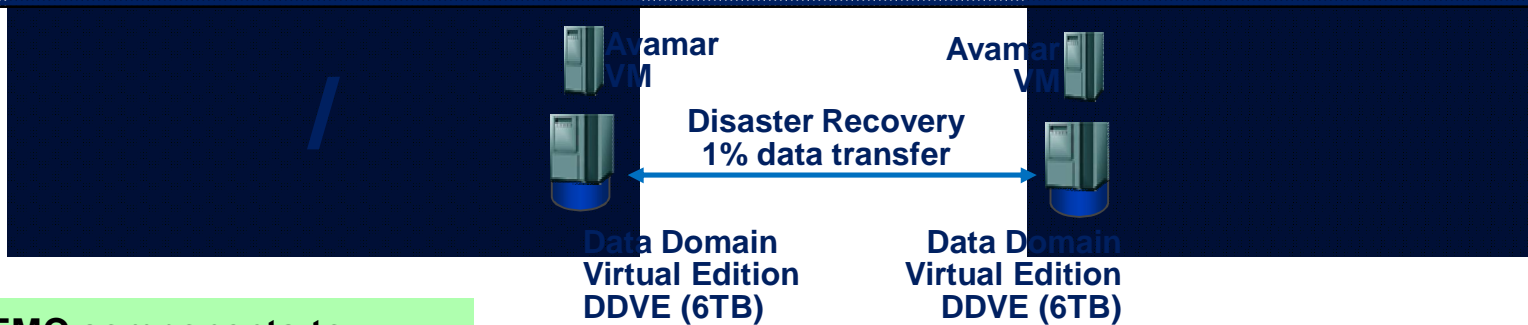
• D

All RecoverPoint for Virtual Machines:

- Continues Data Protection
- Disaster Recovery
- Protection VMware Raw Devices, huge VMs, tough environments
- Data Center relocations
- Hardware agnostic

EE
P

Minimal resources / no hardware investments



Dell EMC components to protect the environment

DPS DD VE 6 processors

- 2 * Avamar VE (unlimited modules, functionality)
-
-
-
-
-

Additional components that we may need

Best backup parameters Disaster Recovery included

How much?

Check the price at

- Partner
- Distributor
- Dell EMC

Check the price at

- Partner
- Distributor
- Dell EMC

It is really low!

DPS DD VE

Licensing

DPS DD VE
Licensing

I want to calculate the price of
DPS DD VE
for my environment

DPS DD VE
Licensing

I want to calculate the price of
DPS DD VE
for my environment

What shall I do?

DPS DD VE

Licensing – how to calculate cost of licenses?

- Count the number of processor in my environment

DPS DD VE

Licensing – how to calculate cost of licenses?

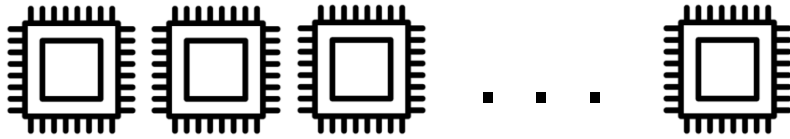
- Count the number of processor in my environment
- Multiply number of processors by price per processor

DPS DD VE

Licensing – how to calculate cost of licenses?

- Count the number of processor in my environment
- Multiply number of processors by price per processor
- Add maintenance

DPS DD VE



- 2 * Avamar Virtual Edition
All Avamar modules, image backup, functionalities, all inclusive
- 2TB Data Domain Virtual Edition per physical processor
- RecoverPoint for Virtual Machines
Protection of 15 VMs per physical procesor
- Search
- DP Advisor / DP Central

DPS DD VE



All in one Software&Media licenses

processor

- RecoverPoint for Virtual Machines
Protection of 15 VMs per physical procesor
- Search
- DP Advisor / DP Central

DPS DD VE



All in one
Software & Media licenses

processor

- RecoverPoint for Virtual Machines

Protection of 15 VMs per host

Unlimited functionality

DP Advisor / DP Central

DPS DD VE



No hardware investment
required

processor

- RecoverPoint for Virtual Machines
Protection of 15 VMs per physical processor
- Search
- DP Advisor / DP Central

DPS DD VE



No hardware investment
required

processor

- RecoverPoint for Virtual Machines

Hardware agnostic

- DP Advisor / DP Central

DPS DD VE

Licensing – how to calculate cost of licenses?

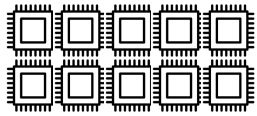


Example

DPS DD VE

Licensing – how to calculate cost of licenses?

Site A (8TB)

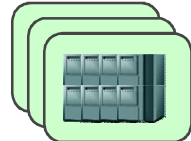


10 physical processors

2 standalone servers



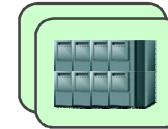
3 servers with VMs



90 VMs

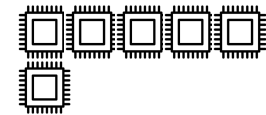
Site B (6TB)

2 servers with VMs



50 VMs

1 standalone server

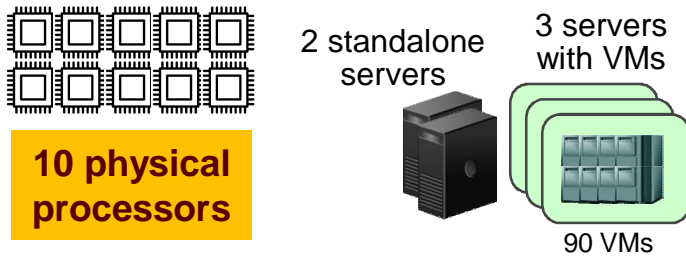


6 physical processors

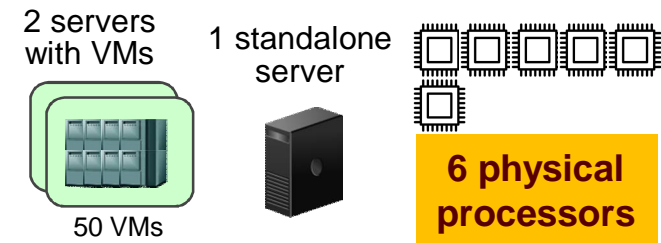
DPS DD VE

Licensing – how to calculate cost of licenses?

Site A (8TB)



Site B (6TB)

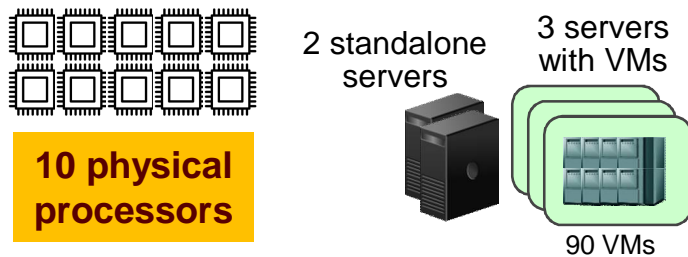


We have 16 physical processors in the protected environment

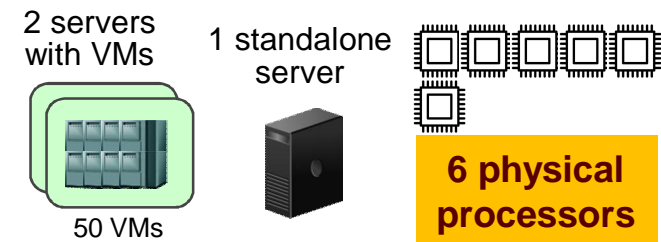
DPS DD VE

Licensing – how to calculate cost of licenses?

Site A (8TB)



Site B (6TB)



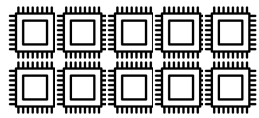
We have 16 physical processors in the protected environment

We need 16 licenses of DPS DD VE to protect the whole environment

Number of TBs in the protected environment does NOT matter

Site A (8TB)

Site B (6TB)

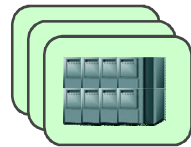


10 physical processors

2 standalone servers

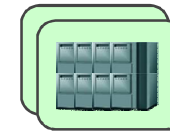


3 servers with VMs



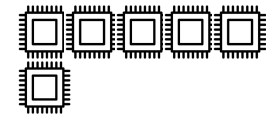
90 VMs

2 servers with VMs



50 VMs

1 standalone server



6 physical processors

We have 16 physical processors in the protected environment

We need 16 licenses of DPS DD VE to protect the whole environment

Number of TBs in the protected environment does NOT matter

Number of servers/VMs in the protected environment does NOT matter



16 physical processors



90 VMs



50 VMs



6 physical processors

We have 16 physical processors in the protected environment

We need 16 licenses of DPS DD VE to protect the whole environment

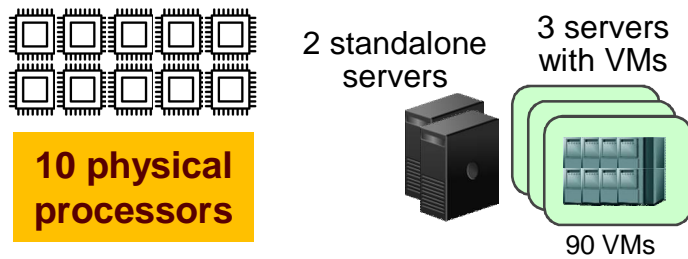
DPS DD VE

What do I get with
DPS DD VE?

DPS DD VE

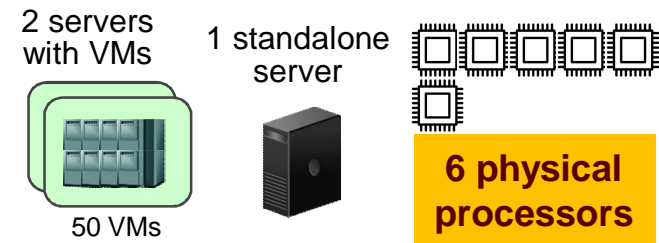
Our environment

Site A (8TB)



We have 16 physical processors in the protected environment

Site B (6TB)



We need 16 licenses of DPS DD VE to protect the whole environment

DPS DD VE

Our environment



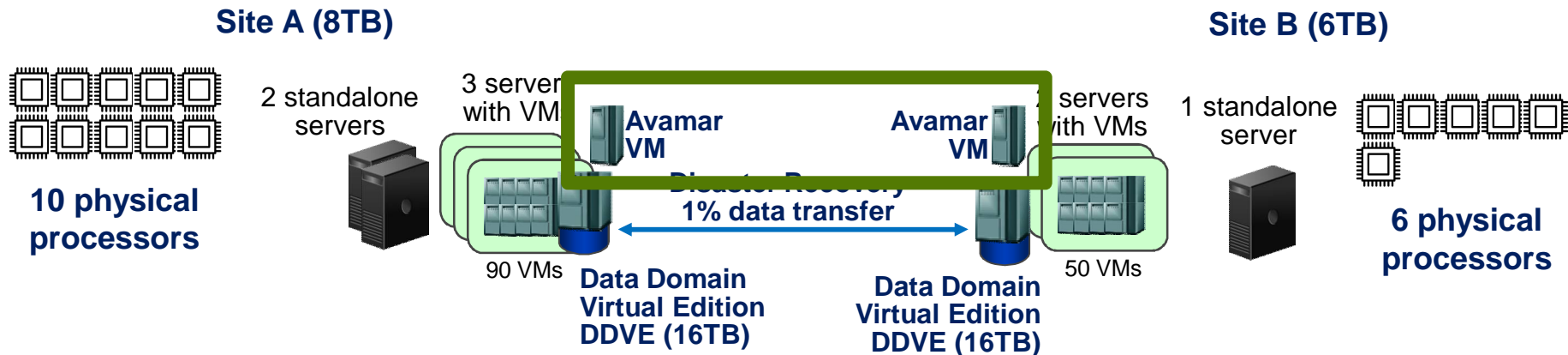
**What to we get with
16 licenses DPS DD VE**

**We have 16
physical processors
in the protected
environment**

**We need 16 licenses of DPS
DD VE to protect the whole
environment**

DPS DD VE

What do we get? - Avamar



Avamar:

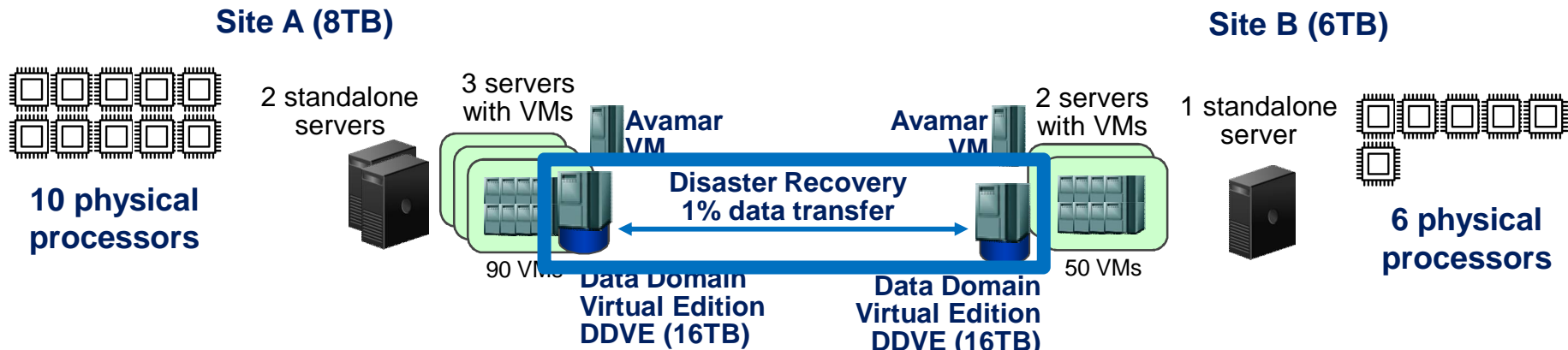
- 2 Avamar Virtual Edition (AVE)
- Each AVE for each of the sites
- Built in Disaster Recovery / Replication

Unlimited Avamar functionalities for protected environment (number of processors)

- **Image level backup**
- **Guest / server backups (all agents)**
- **All Avamar functionalities**
- **vRealize / vCloud**
- ...

DPS DD VE

What do we get? – Data Domain Virtual Edition (DDVE)



Data Domain:

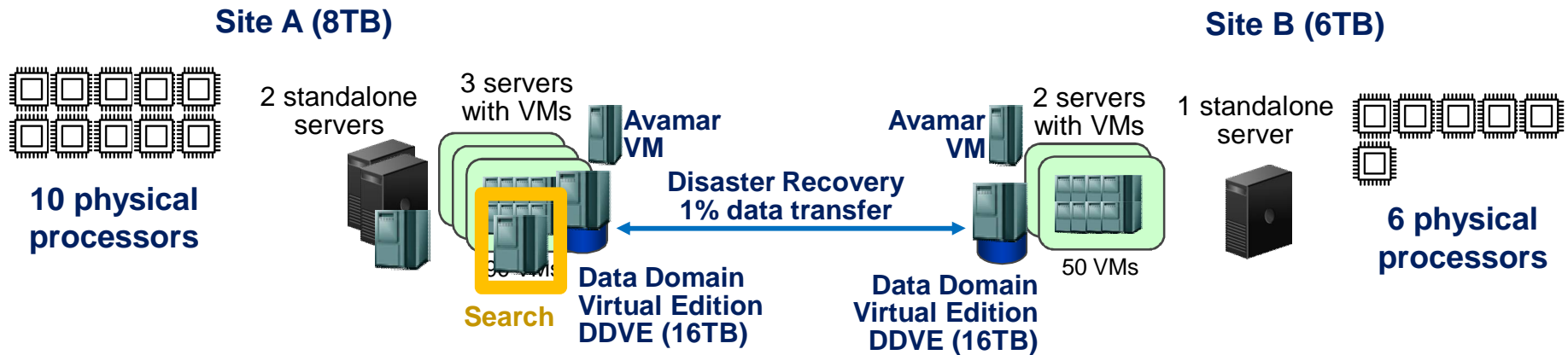
- Data Domain Virtual Edition (DDVE)
- 2TB of DDVE per physical processor

Unlimited Data Domain VE functionalities

- Replication
- Source de-duplication
- BoostFS
- Legendary speed
- Data Verification
- ...

DPS DD VE

What do we get? – Finding data in backups (Search)

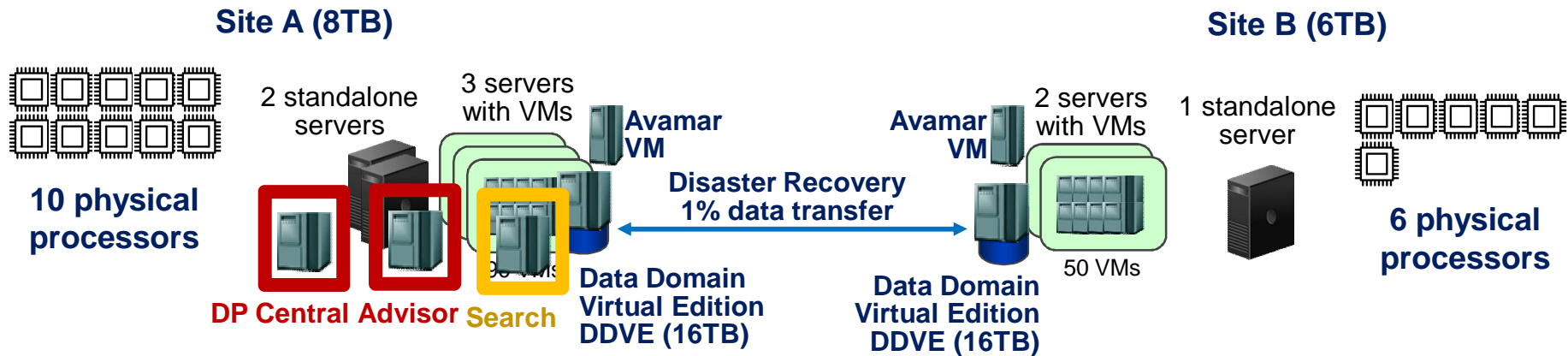


Search:

- Finding any text inside backedup documents
- GDPR
- Business value

DPS DD VE

What do we get? – Monitoring (DPA / DPC)



DP Advisor:

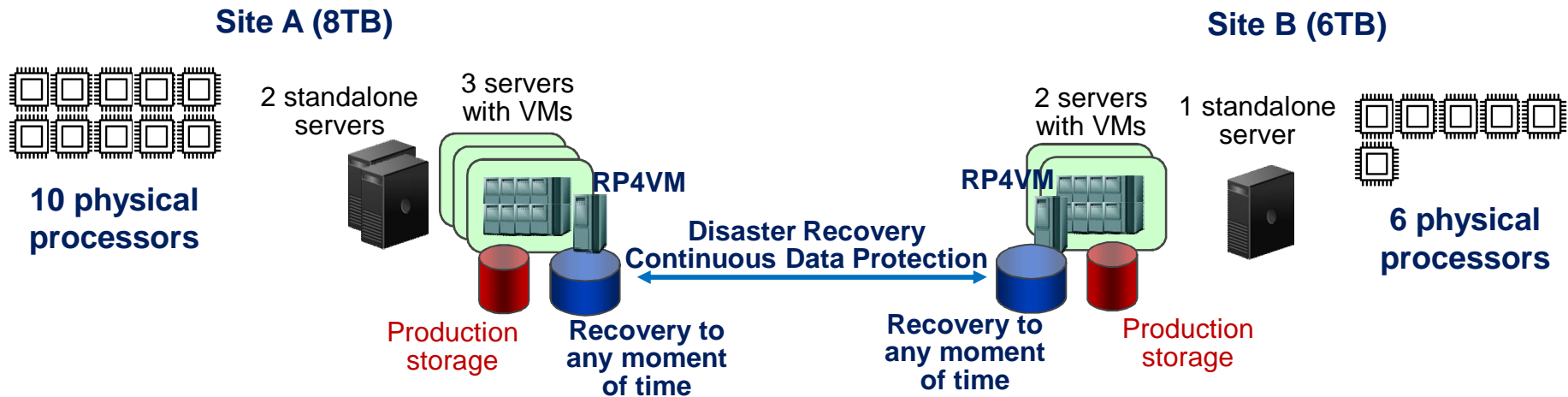
- Monitoring
- Reporting
- Analysis of problems
- Future prediction (media, workload, ...)

DP Central:

- Monitoring
- Current jobs
- Restarts

DPS DD VE

What do we get? – Protection of any VM (RP4VM)



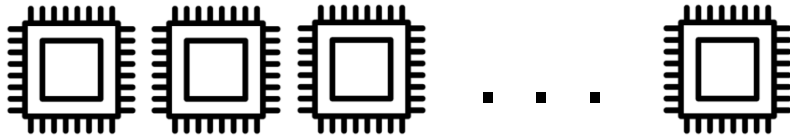
RecoverPoint for Virtual Machines (RP4VM):

- 15 VMs per physical processor
- Hardware agnostic

RP4VM:

- Recovery to any point of time
- Backup / recovery of any VMs
Raw devices, huge VMs, ...
- Local / remote recovery
- Site relocation

DPS DD VE



- 2 * Avamar Virtual Edition
All Avamar modules, image backup, functionalities, all inclusive
- 2TB Data Domain Virtual Edition per physical processor
- RecoverPoint for Virtual Machines
Protection of 15 VMs per physical procesor
- Search
- DP Advisor / DP Central

DPS DD VE

For who?

DPS DD VE

For who?

- Small environments

DPS DD VE

For who?

- Small environments
- Just starting companies

DPS DD VE

For who?

- Small environments
- Just starting companies
- Remote office

DPS DD VE

For who?

- Small environments
- Just starting companies
- Remote office
- Separated environments required own protection

DPS DD VE

For who?

- Small environments
- Just starting companies
- Remote office
- Separated environments required own protection
- Environments required protection with minimal investments

DPS DD VE

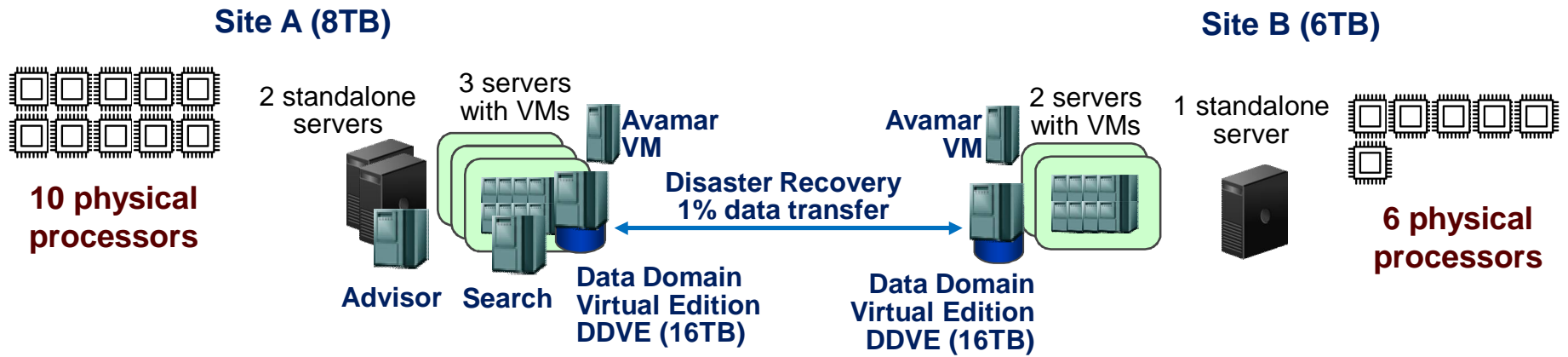
For who?

- Small environments
- Just starting companies
- Remote office
- Separated environments required own protection
- Environments required protection with minimal investments
- VxRail

DPS DD VE

Can the solution grow
with me?

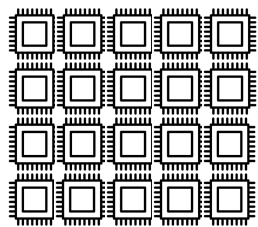
My initial environment



My initial environment

grows to

Site A (14TB)

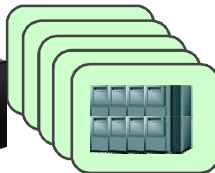


16 physical processors

3 standalone servers

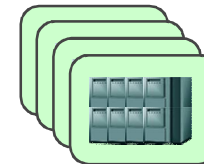


5 servers with VMs

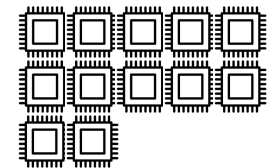


Site B (12TB)

4 servers with VMs



1 standalone server



12 physical processors

Now – having bigger environment
I need more

Now – having bigger environment
I need more

- Separated backup from production
- Guaranteed backup/recovery speed
- Guaranteed ransomware/hacker protection

Now – having bigger environment
I need more

- **Hundreds of backup in parallel**
- **Frequent windows**

No problem!

No problem!

We can:

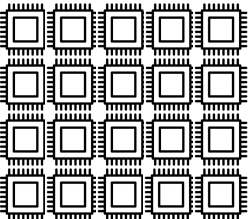
- a. Just add new processor licenses for DPS DD VE package

No problem!

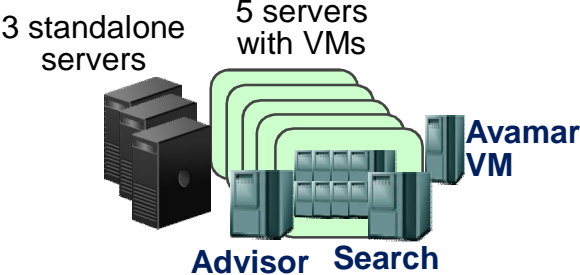
We can:

- a. Just add new processor licenses for DPS DD VE package
- b. Replace Data Domain Virtual Edition (DDVE) with Data Domain appliance (f. e. DD6300) and utilize storage/VM used previously for DDVE for other purposes

Site A (14TB)

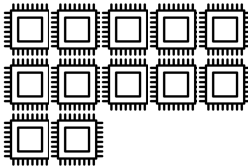


16 physical processors

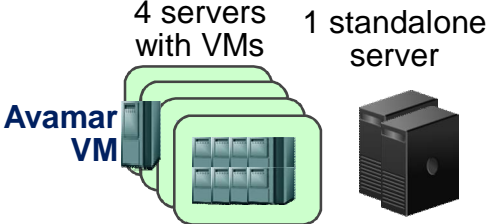


DD 6300

Site B (12TB)

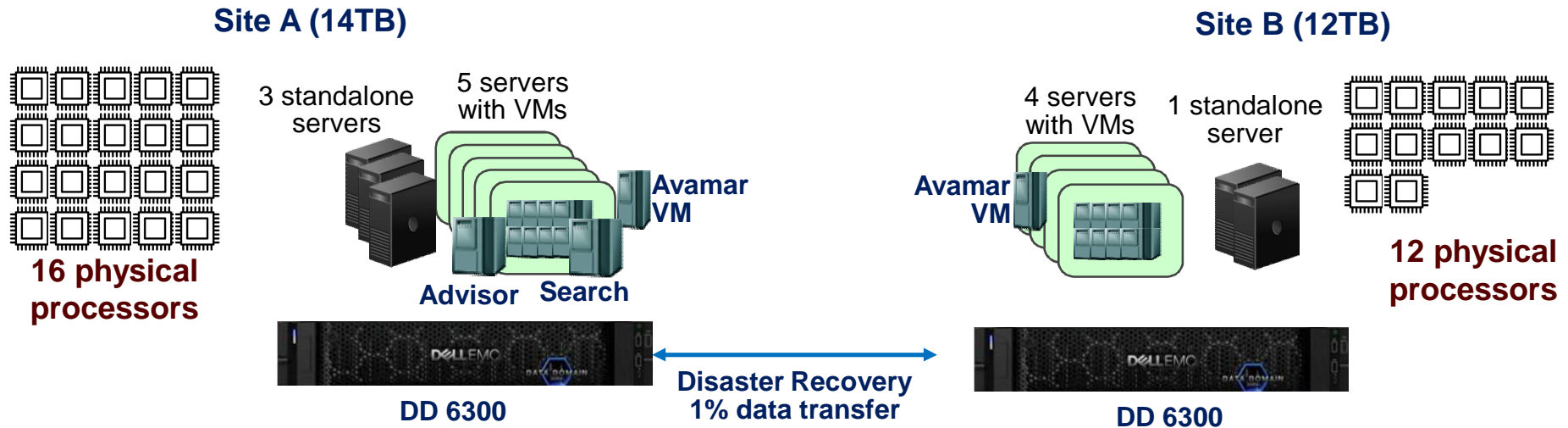


12 physical processors



DD 6300

Disaster Recovery
1% data transfer



- We only change backup media to Data Domain appliance
- We maintain all the best backup features we had so far

Plus additionally
with DD6300 we get



- We only change backup media to Data Domain appliance
- We maintain all the best backup features we had so far



What do we get
additionally with DD6300?

- Crash of production media does not influence backup
- No interference between production and backup

- 270 backup jobs in parallel
- The fastest device on the market
- Ransomware / hacker protection

The power of

DPS DD VE

What do we get within DPS DD VE?

Avamar

Avamar

AVAMAR

DPS DD VE

- In most cases backup of 100 to 1000 Virtual Machines images per hour
 - Always full backup
- Backup of single disks or whole virtual machines
- Easy managing backup policies
 - From Avamar console
 - From VMware vCenter console
- Automated backup of new Virtual Machines

AVAMAR

DPS DD VE

- Backup/restore of VMware environment without vCenter
- Very fast repairing of whole Virtual Machine or a single disk
 - Often repairing 200GB Virtual Machines takes just minutes
- Recovery of single files directly from VMware/Hyper-V image backup
- Immediate backup / repairing of file systems
 - Always full backups
- Simple database backup

AVAMAR

DPS DD VE

- Browsing and searching VMware image backups
- Starting Virtual Machines directly from backup
- Restore of single files by Virtual Machine owner (without assistance of Avamar/VMware administrator)
- Restore up to 15TB/h (with Data Domain)
- Repairing 1TB file system over WAN in seconds / minutes

AVAMAR

DPS DD VE

- [unclear] est
- The fastest backup of Virtual Environments
- [unclear]
- [unclear]
- The best functionalities

AVAMAR

DPS DD VE

- NAS backup
 - Reading / transferring few new files while having full backups
 - Full backup of millions of files in minutes instead o days
 - Restore of single files / directories directly to Windows / Linux machines
 - Restore of selected directories in seconds / minutes
 - ...

AVAMAR - MATERIALS

DPS DD VE

- Avamar overview
 - <https://www.youtube.com/watch?v=X9HjFqcopcU>
- Avamar for VMware
 - <https://www.youtube.com/watch?v=552I5Wqs8P4>
- Self file recovery from VMware image:
 - <https://www.youtube.com/watch?v=DI-bLZzQxSY>
- Avamar for NAS – experience from production:
 - <https://www.youtube.com/watch?v=SWG1ejIdgMw>

Data Domain Virtual Edition DDVE

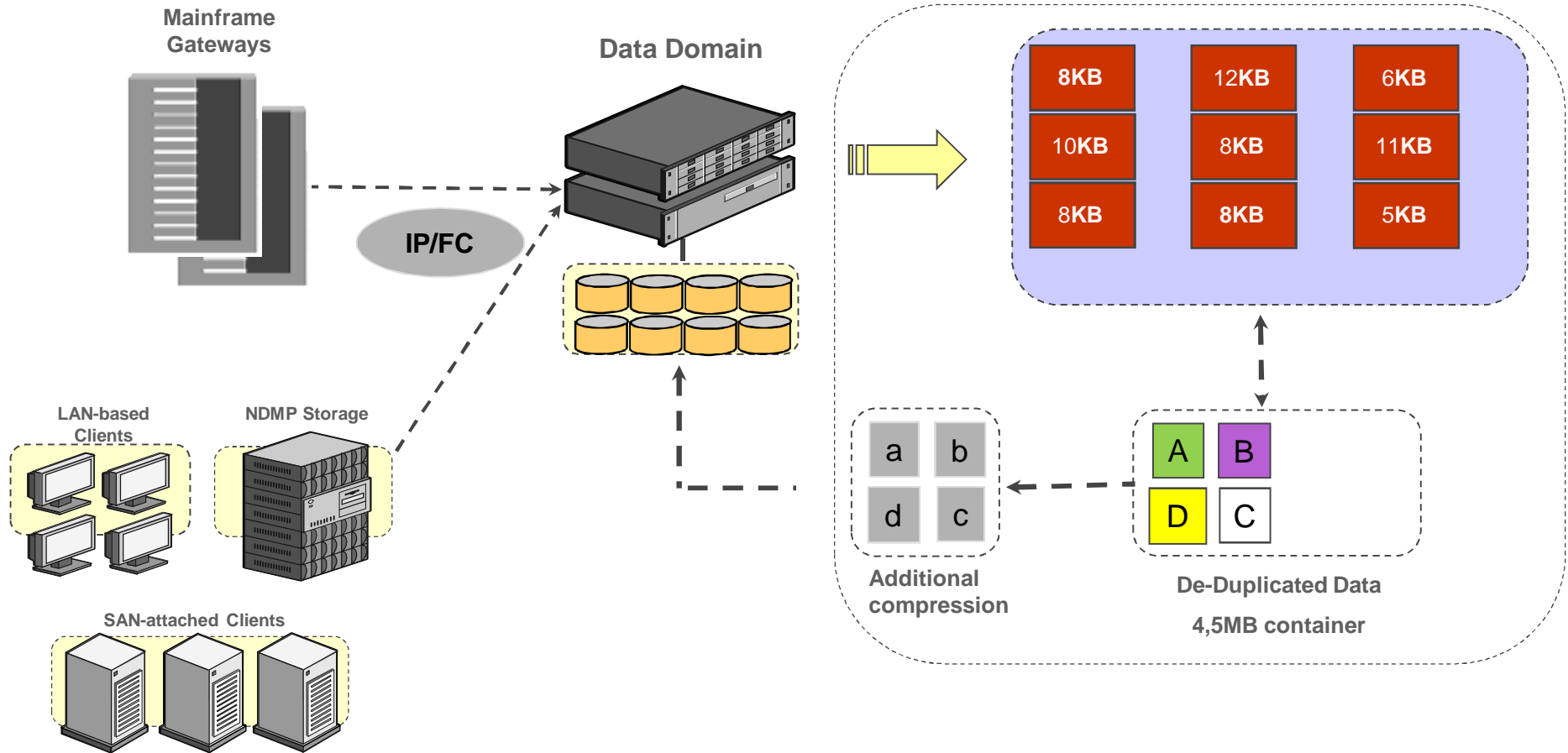
Data Domain Designed for ...

Performance

Security

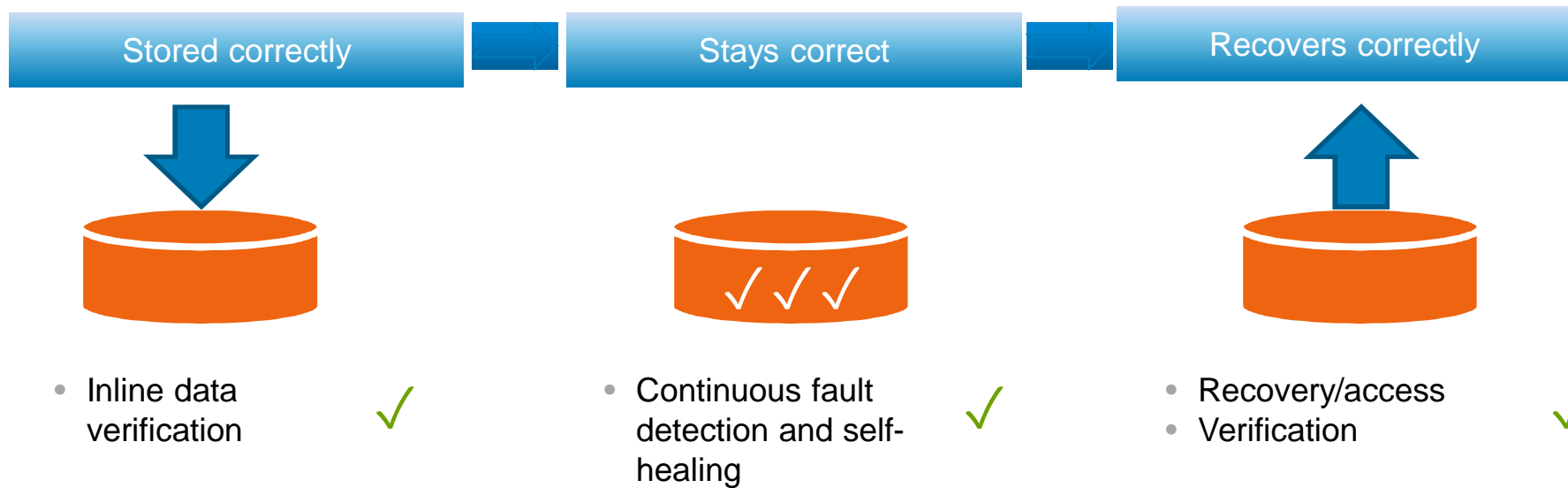
Cost effective

Data Domain Architecture



Most Reliable Protection Storage

- Data Domain Data Invulnerability Architecture



Speed by avoid disk IOs

Backup: x

```
sysadmin@ddt# fileys show compression /data/coll/crm_dev
Total files: 9; bytes/storage_used: 2.5
  Original Bytes:      51,607,939
  Globally Compressed: 25,339,596
  Locally Compressed:  20,243,166
  Meta-data:          108,828
sysadmin@ddt# █
```

Backup: x+1

```
sysadmin@ddt#
sysadmin@ddt# fileys show compression /data/coll/crm_dev
Total files: 18; bytes/storage_used: 5.0
  Original Bytes:      103,215,794
  Globally Compressed: 25,646,595
  Locally Compressed:  20,551,028
  Meta-data:          111,888
sysadmin@ddt# █
```

We backed up 50MB
with 0,3MB disk IOs

Mail from the customer

I have to praise myself because yesterday **we started DDVE tests and the results are spectacular.**

Mail from the customer

After First Backup (just after 1 backup):

On a sample of 80 virtual machines (mixed Windows and Linux), we achieved

- **De-duplication of 94%**
- **9TB VMWare occupies 0,6TB on Data Domain**
- **Backup time decreased by half comparing to current solution (just 1st backup).**
 - **Further backups are huge faster**

Mail from the customer

Customer environment

- VMware
- VDP (vSphere Data Protection)
- Data Domain Virtual Edition (PoC license)
 - Own storage
 - Own servers

Mail from the customer

**Effect better than on
Data Domain
workshop!**

PoC Feedback

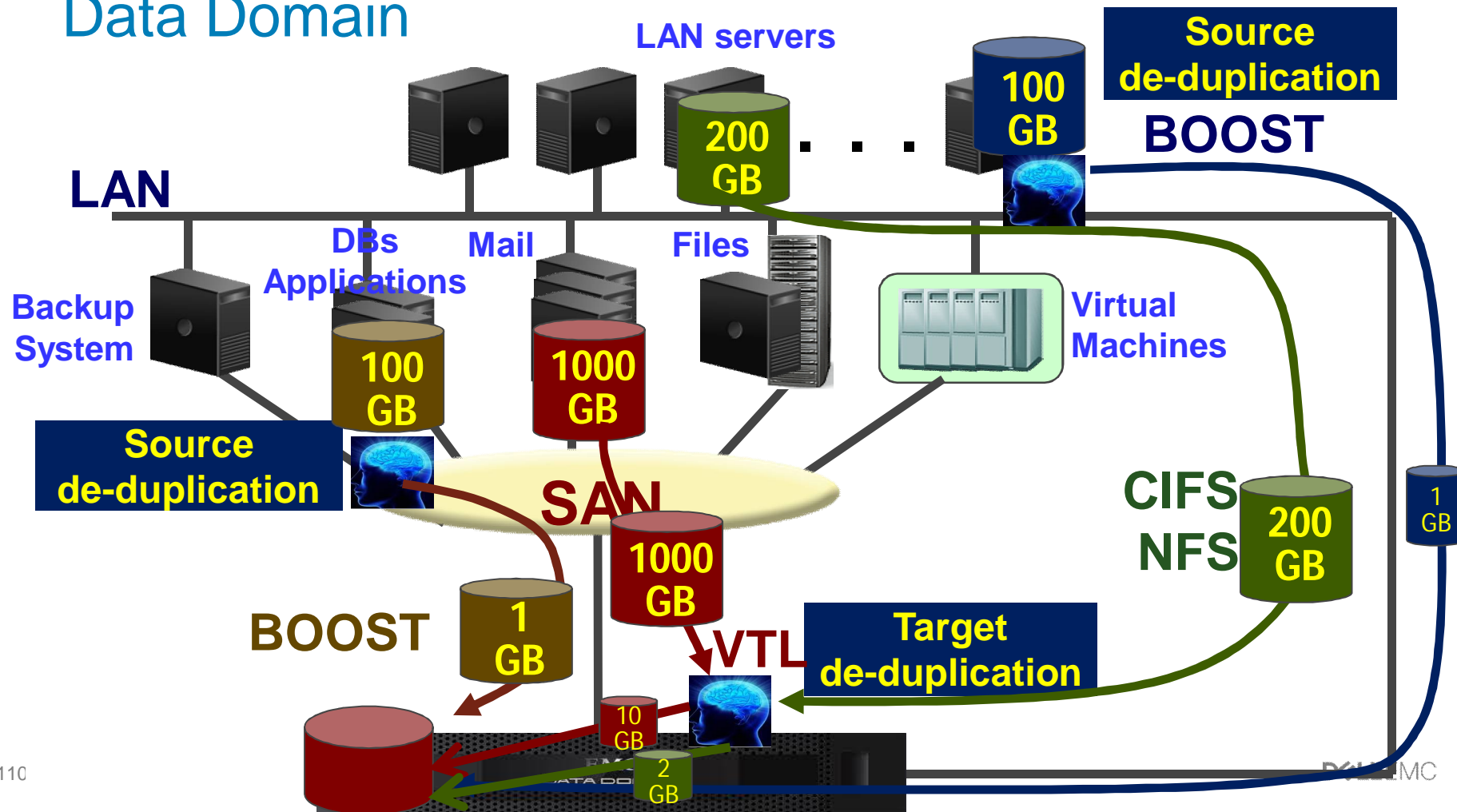
Environment

- 300GB SAP/Oracle

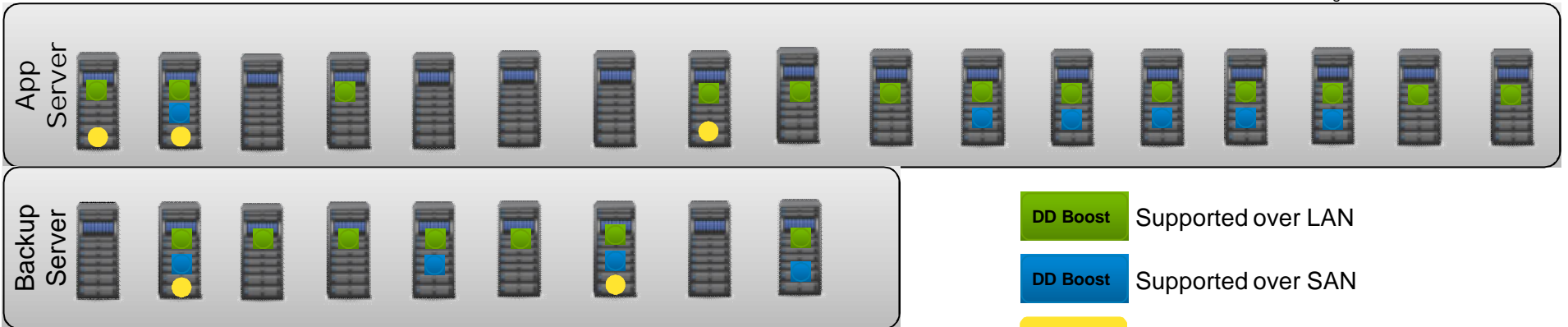
POC results

- Backup speed: **5TB/h**
- Backup time: 4 minutes
- De-duplication after 4 backups: **1:15**
- DD + NetWorker full configuration: **6h**
- **Extremely cost effective solution**

Data Domain



Data Domain Boost Ecosystem



- DD Boost** Supported over LAN
- DD Boost** Supported over SAN
- DD Boost** Supported over WAN

For everything else, use the DD Boost file system plug-in



Data Domain

- ✓ Decreases costs
- ✓ Speeds-up backup/restore
- ✓ Guarantees data recovery
- ✓ Provides Disaster Recovery
- ✓ Makes backup environment elastic

Search

Search

Search

- Searching and browsing Avamar backups
- Finding documents in backup repository that contain provided key words
- GDPR
- More:
 - <https://youtu.be/JBTDrsoV1Q?t=148>

Enter your keyword(s) here:



[View Jobs](#)

[+ Add Criteria](#)

Server:

Client:

File Type:

Found 174 results. (0.010 seconds)

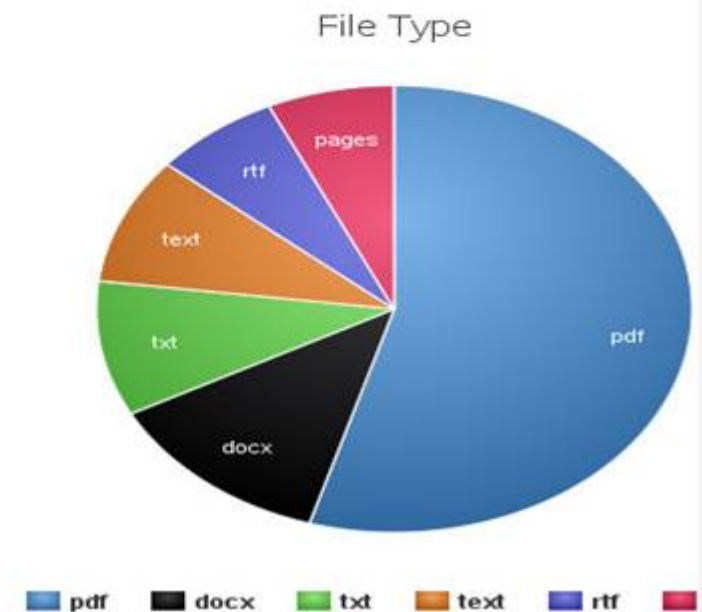
Restore

[PPP Corp Go to Market Plan.docx](#)
[/home/administrator/Corporate/Public/Sales/2012/](#)
Size 14 KB Last Modified: Sun, 16 Aug 2009 11:00:00
platform avamar client dpsearch2.domain.com
again to refresh the database and index. Duplicate mail
approve all **Project Einstein** prototypes before the next
fields. Selecting a content type. As part

[More Info](#) [Preview](#) [Restore](#)

[Success.com Marketing Plan.pages](#)
[/home/administrator/Corporate/Public/Sales/Backup/](#)

File Type Chart



DP Advisor

DP Advisor

Data Protection Advisor

- Monitoring
- Reports
 - From Console
 - Email
- Analysis of failed backups
- SLA

Analysis of data lost in case of a disaster

Chargeback

... (over 280 standard reports)

Charts (bars, lines, circles, ...)

More

<https://youtu.be/8G5I-OzWY-A>



Advisor



Reports



Policies



Inventory



Admin

Backup Key Performance Indicators (KPIs)

2/3/13 00:00 - 2/16/13 23:59

Backup Servers

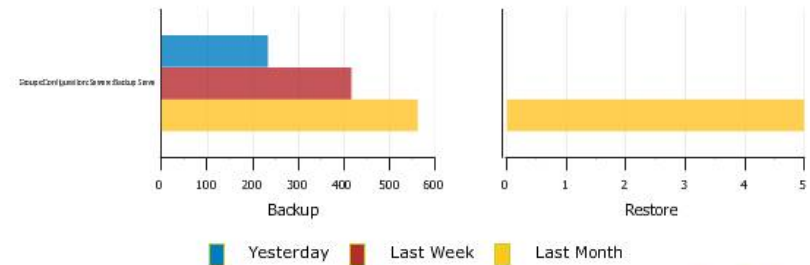
KPI	01 Nov-07 Nov	08 Nov-14 Nov	Change	Trend
Backup Success	88.9 %	90.7 %	1.8 %	↑
Restore Success	98.1 %	98.8 %	0.7 %	↑
Unprotected Clients		389		
Protected Data	33.7 TB	68.2 TB	34.5 TB	

Generated At:2/18/13 19:00

Failed Backup and Restores by Group - Bottom 5

1/18/13 19:00 - 2/18/13 19:00

Backup Servers



Show All Groups

Clients Not Backed Up by Group

2/11/13 19:00 - 2/18/13 19:00

Administration, Audit, Human Resources, Infrastructure, Mark...

Object	0-24 Hours	24-48 Hours	Over 48 Hours
Groups:Applications:Administration	5	4	4
Groups:Applications:Audit	5	4	7
Groups:Applications:Human Resources	3	3	
Groups:Applications:Infrastructure	7	6	6
Groups:Applications:Marketing	5	5	16
Groups:Applications:Risk	4	2	6

Generated At:2/18/13 19:00

Client Backup Success Rate by Group

2/17/13 19:00 - 2/18/13 19:00

Human Resources, Risk, Audit, Administration, Infrastructure...

Object	Total Clients	Failed Clients	Success Rate (%)
Groups:Applications:Human Resources	90	2	96.667% 🚩
Groups:Applications:Risk	112	4	96.429% 🚩
Groups:Applications:Audit	106	5	95.283% 🚩
Groups:Applications:Administration	101	4	95.05% 🚩
Groups:Applications:Infrastructure	116	6	93.966% 🚩
Groups:Applications:Marketing	119	3	95.798% 🚩

Generated At:2/18/13 19:00

Data Protection Central

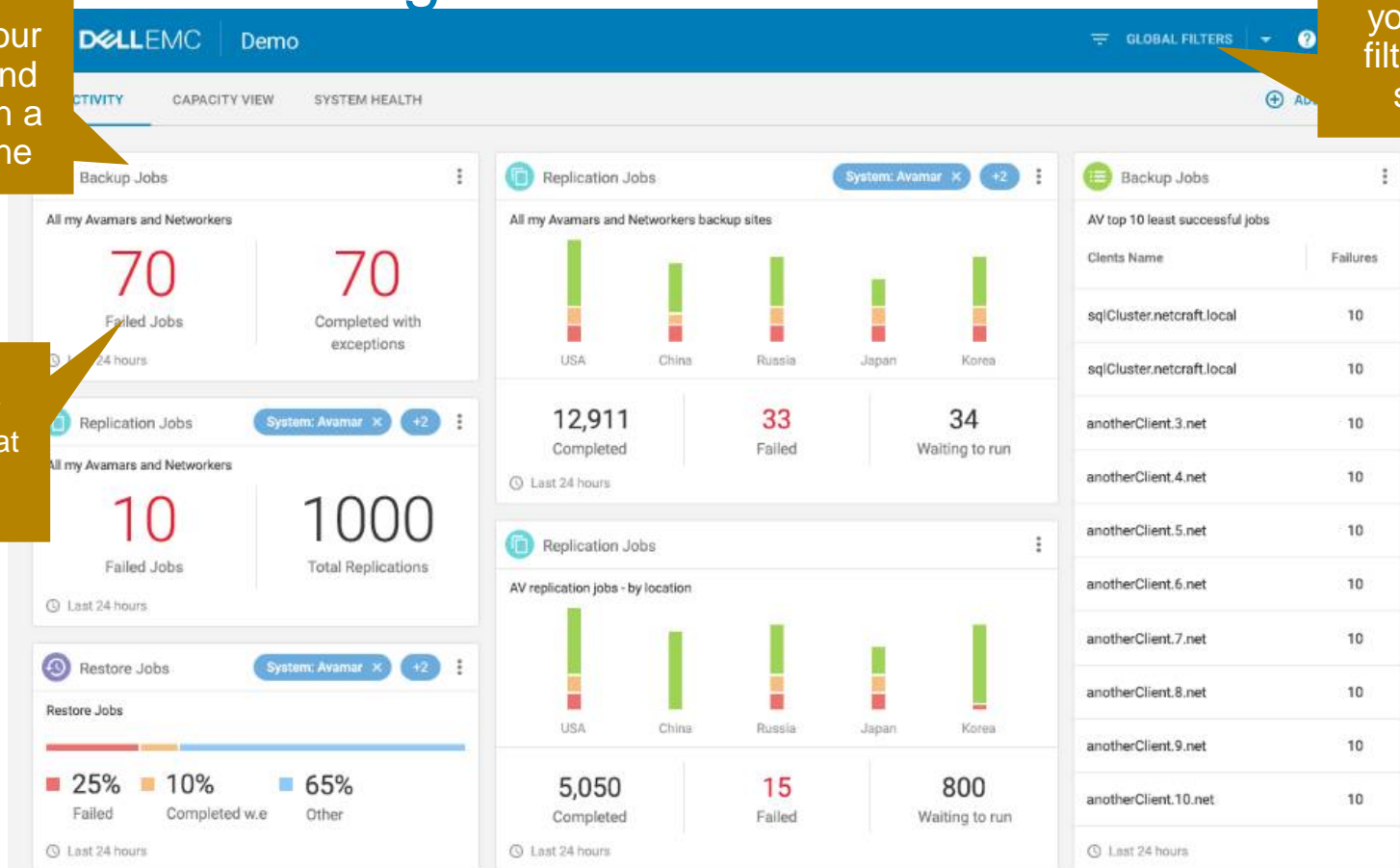
- Single point of control of all my locations
 - Avamar
 - Data Domain
- Monitoring backup jobs
- Restarting backup jobs
- Reporting

Configurable Dashboards

View all your Avamar and NW jobs in a single pane

Customize your view – filter Av/NW systems

Configurable Widgets - only show KPIs that you want to see!



Job Related Detail

Drill into job details with custom /filtered views

The screenshot shows the Dell EMC backup management interface. At the top, there's a navigation bar with 'XELLEMC Demo' and 'GLOBAL FILTERS'. Below that, there's a search bar and filter options. The main area displays a table of jobs with columns for System, Status, System Name, Job Name, Date Started, Date Ended, and Own Job. The table is filtered to show jobs for 'AV.system.1'. A detailed view for 'AV.system.1' is shown on the right, including client status (failed, active, completed), target storage, target location, and client domain. Action buttons like 'RERUN JOB', 'RERUN FAILED CLIENTS', 'MANAGE POLICY', and 'VIEW CLIENT LIST' are visible, along with a 'LAUNCH IN AVAMAR' button.

System	Status	System Name	Job Name	Date Started	Date Ended	Own Job
AV	Failed	AV.System.1	Backup 1	10/10/2017 02:55	10/10/2017 03:55	✗
NW	Failed	AV.System.1	Backup 2	10/10/2017 02:56	10/10/2017 03:55	✓
AV	Completed w.e	AV.System.1	Backup 33	10/10/2017 03:15	10/10/2017 03:15	✓
NW	Failed	AV.System.1	Backup 1	10/10/2017 03:15	10/10/2017 03:15	✓
AV	Failed	AV.System.1	Backup 1	10/10/2017 02:55	10/10/2017 03:55	✗
NW	Completed w.e	AV.System.1	Backup 2	10/10/2017 02:56	10/10/2017 03:55	✓
AV	Failed	AV.System.1	Backup 33	10/10/2017 03:15	10/10/2017 03:15	✓
NW	Failed	AV.System.1	Backup 1	10/10/2017 03:15	10/10/2017 03:15	✓
NW	Completed w.e	AV.System.1	Backup 2	10/10/2017 02:56	10/10/2017 03:55	✓
AV	Completed w.e	AV.System.1	Backup 33	10/10/2017 03:15	10/10/2017 03:15	✓

System Name: AV.system.1

Client status:

- Clients failed: 10
- Clients active: 10
- Clients completed: 10
- Clients completed with exception: 20
- Clients waiting to run: 50

Number of clients: 118

Target storage: ddc3002.bnl.tan

Target location: Cloud

Client domain: clients/local/windows

OWN JOB

RERUN JOB

RERUN FAILED CLIENTS

MANAGE POLICY

VIEW CLIENT LIST

LAUNCH IN AVAMAR

See detail including:

- Client status
- Target storage
- Policy name

Take Actions including:

- Rerun job
- Launch to Avamar/NW

RecoverPoint for Virtual Machines

RP4VM

RecoverPoint for Virtual Machines

- Easy backup of any VMware environment
- Backup/restore of VMs that regular software cannot backup:
 - Raw Devices
 - Large Virtual Machines (over 1TB)
 - Fast changing Virtual Machines (7%+ between backups)
- Restore of Virtual Machines to any point in time
- Restore of Virtual Machines in seconds
- Disaster Recovery of Virtual Environment to any distance Remote Office
- More

123 – <https://www.youtube.com/watch?v=Dqyqabfg3iM>

RecoverPoint for Virtual Machines

- Easy backup of any VMware environment
- Backup/restore of VMs that cannot be backed up
 - New Devices
 - Large Virtual Machines
 - Resizing Virtual Machines (Hot) between backups
- Restore to **Any VMware environment**
- Restore Virtual Machines in seconds
- Disaster Recovery of Virtual Environment to any distance Remote Office

DPS DD VE

Quotations

DPS DD VE within Dell EMC systems

EMC² Data Protection Suite

Software Services and Support Summary

Primary

* Solution Name

* Type of Configuration

Installation Country ▾

Product

*Backup and Recovery

EMC Data Protection Suite for Apps	<input type="button" value="YES"/> <input type="button" value="NO"/>
EMC Data Protection Suite for Backup	<input type="button" value="YES"/> <input type="button" value="NO"/>
EMC Data Protection Enterprise Edition	<input type="button" value="YES"/> <input type="button" value="NO"/>
EMC Data Protection Suite for VMWare	<input type="button" value="YES"/> <input type="button" value="NO"/>
EMC Data Protection Suite for Archive	<input type="button" value="YES"/> <input type="button" value="NO"/>
Commercial DPS DDVE Bundle	<input checked="" type="button" value="YES"/> <input type="button" value="NO"/>
* Existing Commercial DPS DDVE Bundle Customer	<input type="button" value="YES"/> <input type="button" value="NO"/>

* Quantity Sockets to Add

DPS DD VE

within
Dell EMC
systems

DPS DD VE can be quoted for environments from 2 processors up to 50 processors

EMC Data Protection Suite for Archive

YES NO

Commercial DPS DDVE Bundle

YES NO

* Existing Commercial DPS DDVE Bundle Customer

YES NO

* Quantity Sockets to Add

2 - 50

DPS DD VE - Quotation example

DPS DDVE 2 PROCESORS			
SYSTEM		DATA PROTECTION SUITE SOLUTION	
458-002-398		COMMERCIAL DPS DDVE BUNDLE	1
456-113-570		DPS DP SEARCH ENABLER ENTRY=CA	1
456-113-571		EMC DPA ENABLER-B ENTRY=CB	1
456-113-572		DPA SINGLE FED REPORTING SERVER ENTRY=IA	1
456-113-568		DPS 2TB AVE ENABLER ENTRY=CA	2
456-113-545		COMMERCIAL DPS DDVE BUNDLE SOCKETS=IA	2
456-113-569		DPS RP4VM ENABLER ENTRY=IB	30
456-113-573		DD VE PERPETUAL CAP CHNL ENTRY 1TB=CA	4
	M-PSP-SW-DD-E1	PROSUPPORT PLUS SOFTWARE SUPPORT	1
458-002-414		DATA PROTECTION CENTRAL ENTRY=CA	1
	M-PSP-SW-DD-E1	PROSUPPORT PLUS SOFTWARE SUPPORT	1

DPS DD VE is available via
CHANNEL ONLY

**DPS DD VE is available via
CHANNEL ONLY**

Contact your partner / distributor for

- **Quotations**
- **Adjusting to your environments**
- **Offers**
- **Questions**

DPS DD VE

VS

DPS 4 VM

	DPS DD VE	DPS 4 VM
Avamar	YES	YES
NetWorker	NO	YES
DD VE	YES	NO
Search	YES	YES
Advisor	YES	YES
Central	YES	YES
RP4VM	YES	YES
Price per physical processor without maintenance [\$ - Dollars]	1 500	2 000
Minimum number of physical processors to buy	2	5

DPS DD VE

More info

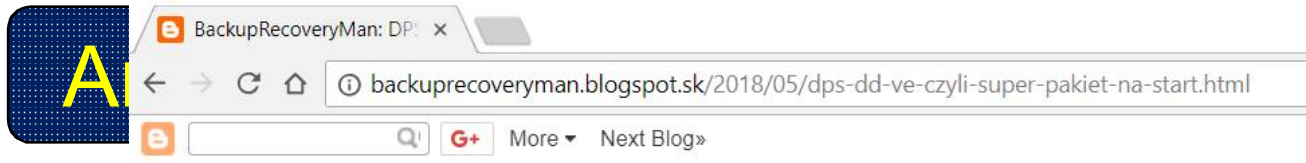
DPS DD VE

More info

- Partners / distributors
- Dell EMC pages

Artykuł o DPS DD VE po polsku

<http://backuprecoveryman.blogspot.sk/2018/05/dps-dd-ve-czyli-super-pakiet-na-start.html>



<http://backuprecoveryman.blogspot.sk/2018/05/dps-dd-ve-czyli-super-pakiet-na-start.html>

<http://backuprecoveryman.blogspot.sk/2018/05/dps-dd-ve-czyli-super-pakiet-na-start.html>

BackupRecoveryMan

środa

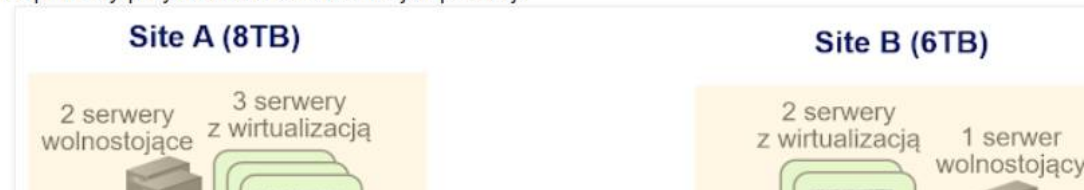
DPS DD VE czyli... super pakiet na start!

Potrzebujemy rozwiązania backupowego na start:

- dla kilku - kilkunastu serwerów
- z najwyższej półki
- posiadającego wszystkie funkcjonalności dostępne na rynku

Jak wygląda typowa architektura backupu przy wykorzystaniu **DPS DD VE**?

Rozpatrzmy przykładowe środowisko jak poniżej:



Archiwum

▼ 2018 (2)

▼ maja

DPS
sta

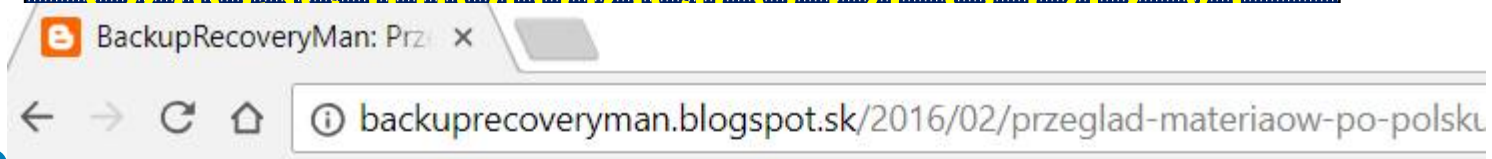
► kwiecień

► 2017 (7)

► 2016 (8)

Całość informacji o DPS DD VE

[http://b
materiaz](http://backuprecoveryman.blogspot.com/2016/02/przeglad-materiaow-po-polsku.html)



Artykuły i filmy dotyczące pakietu licencyjnego **DPS DD VE**

--

Artykuł opisujący zawartość i sposób licencjonowania DPS DD VE:

<http://backuprecoveryman.blogspot.com/2018/05/dps-dd-ve-czyli-super-pakiet-na-start.html>

--

Film dyskutujący DPS DD VE:

<https://www.dell EMC.com/pl-pl/events/webinar/index.htm#321103>

--

Całość materiałów dotyczących pakietu DPS DD VE:

<http://backuprecoveryman.blogspot.com/2016/02/przeglad-materiaow-po-polsku.html#DPSDDVE>

Całość informacji o DPS DD VE

<http://backuprecoveryman.blogspot.com/2016/02/przeglad-materiaow-po-polsku.html#DPSDDVE>

DPS DD VE

I want to test it

PoC guide

<https://inside.dell.com/people/olkowd/blog/2018/05/21/backuprecovery-poc-guides>

PoC guide

<https://inside.dell.com/people/olkowd/blog/2018/05/21/backuprecovery-poc-guides>

- PoC guides for
 - Data Domain Virtual Edition (DDVE)
 - Avamar
 - RecoverPoint for Virtual Machines (RP4VM)
- Each package contains for DDVE / Avamar / RP4VM
 - Screen be screen how to install
 - Showing all the values (speed / BOOOST / global de-duplication, Disaster Recovery, ...)



Backup/Recovery PoC Self-Guides: Avamar / NetWorker / Data Domain / RP4VM tutorials

Posted by [Daniel Olkowski](#) in [Daniel Olkowski's Blog](#) on May 21, 2018 10:12:05 AM

Hello,

Please find PoC guides for backup / recovery solutions:

Guides:

- * allow customer to test and get value of Avamar / NetWorker / DD / Rp4VM
- * show screen by screen the power of Dell EMC backup / recovery solutions

Data Domain PoC materials

Tutorial, step by step, how to install and configure Data Domain Virtual Edition

In the above package you will find presentations that leads you via:

- * Download / Installation
- * SQL backup with source de-duplication
- * Network load balancing and fail-over

[Data Domain Virtual Edition: Step by step tutorial with detailed DD features description](#)

Avamar PoC materials

Ideal to send customer / partner to install and play itself the Avamar / Data Domain.

You can also use it in front of customer to explain "live" all Avamar fantastic features.

Screen by screen with explanations.

[Avamar "Proof of Concept" self-tutorial with deep features explanations](#)



[More documents](#) by [Daniel Olkowski](#)

Data Domain Virtual Edition: Step by step tutorial with detailed DD features description

created by [Daniel Olkowski](#) on Oct 20, 2016 5:10 PM, last modified by [Daniel Olkowski](#) on Sep 6, 2017 3:40 PM

Visibility: Open to anyone

Let your customer/partner touch and enjoy Data Domain with this self-demo of Data Domain.

The self-guide allows customer/partner to easily download/configure Data Domain Virtual Edition (DDVE 3.0 / DDOS 6.0). In further steps the tutorial leads a person and allows him to touch all fantastic Data Domain values:

- Great de-duplication factors and all the savings
- BOOST for applications
- Compliance/Snapshots/Interface Groups/...

I especially encourage customers to go through the following self-demo:

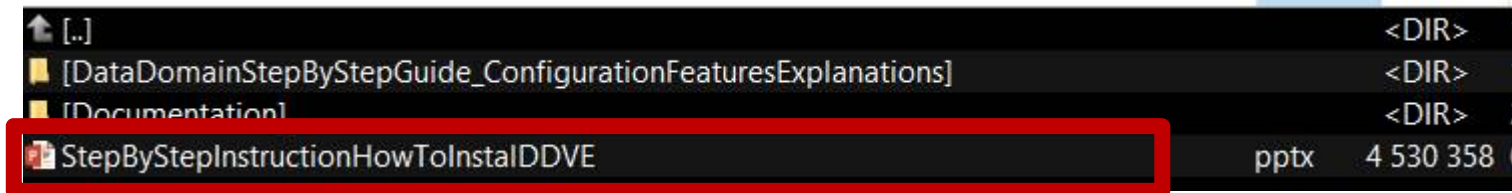
- DD_02_DataDomainAndCIFSShare_De-dupStatistics.pptx
- DD_04_BOOST_for_MSSQL.pptx
- DD_08_DataDomain_HowToMeasurePhysicalCapacity.pptx
- DD_09_NetWorking_InterfaceGroup.pptx

You can

- Just share this zip package with any person from customer/partners
- Show the slides in front of customer to explain beauty and uniqueness of Data Domain

 [DataDomain_StepByStepGuide_FeaturesExplanations_DDVEInstallation.zip](#) (48.5 MB)

DDVE PoC guide



DDVE PoC guide

DD_01_IntegratingDataDomainWithActiveDirectory	pptx
DD_02_DataDomainAndCIFSShare_De-dupStatistics	pptx
DD_02a_PowerOfDataDomainDeDuplication	pptx
DD_03_BOOST_StorageUnits_SetUp	pptx
DD_04_BOOST_for_MSSQL	pptx
DD_05_BOOST_for_RMAN	pptx
DD_06_BOOST_for_SAP	pptx
DD_07_BoostFS_ScreenByScreenGuide_Explanations	pptx
DD_07b_ComparisonOfSourceDe-duplicationTechnical	pptx
DD_08_DataDomain_CloudTier	pptx
DD_09_DataDomain_HowToMeasurePhysicalCapacity	pptx
DD_10_NetWorking_InterfaceGroup	pptx
DD_11_Networking	pptx
DD_12_RetentionLock	pptx
DD_13_SnapShots	pptx
DD_14_GUI_Screens	pptx
DD_16_UsefulCommands	pptx
DD_17_Monitoring	pptx
DD_18_DataDomainRemoteCommands	pptx
DD_19_Documents	pptx
DD_20_DD_Models	pptx
DD_21_MTrees	pptx
DD_22_VMware	pptx
DD_23_HowToObtainNodeLockingID	pptx
DD_eCDA	pptx

Questions...

DPS DD VE



Top #1 features in unbeatable price

Daniel.Olkowski@dell.com