CÀI ĐẶT , CẤU HÌNH PROXMOX BACKUP SERVER

Bước 1 : Trong giao diện web, vào **DashBoard -> Storage**.

× PRO×MO×	Backup Server 3.2-2								Documen	tation 🔲 Tasks 0	🔒 root@pam 🗸
Dashboard											
D Notes	🖨 Disks 🖿 Direc	tory 📰 Z	FS								
Configuration -	Reload Show S.M.A										
Access Control	Device	Туре	Usage	Size	GPT	Model	Serial	S.M.A.R.T.	м	Wearout	
Remotes	- 🖨 /dev/sda	Hard Disk	LVM	214.75 GB	Yes	QEMU_HARDDISK	drive-scsi0	passed	No	N/A	
L Traffic Control	- 🖨 /dev/sda2	partition		1.07 GB	Yes				No	N/A	
Certificates	dev/sda3	partition		213.67 GB	Yes				No	N/A	
	/dev/sda1	partition Hard Disk	unused	1.03 MB 107.37 GB	res Yes	OEMU HARDDISK	drive-scsi1	passed	NO NO	N/A N/A	
Subscription											
Administration											
>_ Shell											
🖨 Storage / Disks											
Tape Backup											
Datastore											
Add Datastore											

Bước 2 : Chọn **Directory – Create Directory**, sau đó hộp thoại **Create : Directory** hiện lên

Chọn disk cần tạo phân vùng cho **Backup** – Chọn **Filesystem là XFS** – **Name** : Đặt tùy ý – Tích vào **Add as Datastore**



Sang Proxmox VE – chọn **Datacenter** – Chọn **Storage** – Chọn **Add** – Chọn **Proxmox Backup Server**

Hộp thoại Add : Proxmox Backup Server hiện lên – Điền các thông tin vào hộp thoại ID : Điền theo tên Proxmox Backup Server , Server : Điền IP của Server Backup, Username và Password : điền theo Server Backup, Datastore : Điền theo Server Backup đã tạo.

Datacenter									0 Help
Q Search	Remove Edit		0		D-#-(T)	Ob and the	EH-d-	Dduidh hi i	
Summary	LVM	уре	Content		Path/larget	Shared	Enabled	Bandwidth Limit	
🗖 Notes 🖿	LVM-Thin Dire		Disk image, Container	maga Cont	horllibha	No	Yes		
🚍 Cluster			VM-Thin Disk image Container		/val/lib/vz	No	Yes		
🖗 Ceph	NFS								
Options	SMB/CIES GlusterES								
Storage	iSCSI								
🖺 Backup	CephFS								
13 Replication	RBD								
🗗 Permissions 📼 🚆	ZES OVER ISCSI								
🚢 Users 💼	Proxmox Backup Server								
👃 API Tokens 🍡 🛃	ESXi								
🕰 Two Factor									
嶜 Groups									
• - · · · · · · · · · · · · · · · · · ·									
General Bac	ckup Retentio	on	Encryption						
ID:	Backup-Te	est		Node	s:	All (No r	restrictio	ons)	
Server:	192.168.7	0.89		Enab	le:	\square			
Username:	root@pbs			Conte	ent	backup			
Password:	•••••			Datas	store:	Backup	-test		
				Name	espace:	Root			
Fingerprint [.]	Server ce	rtificat	e SHA-256 find	perprint	required fo	r self-siane	ed certif	icates	
O Help								Ade	d

Chọn Tab Encryption – Chọn Auto-generate a client encryption key – Sau đó chọn Add



Hộp thoại key xuất hiện , ta tiến hành sao lưu hoặc tiến hành Download file Key về để lưu trữ sau này

*LƯU Ý : NẾU MẤT FILE KEY HOẶC QUẾN CÓ THỂ KHÔNG LẤY LẠI ĐƯỢC DỮ LIỆU BACKUP

Important: Save your Encryption Key									
Key:	{"kdf":null,"created":"2024-08-19T09:43:29+07:00","modified":"2024-08-19T09:43:2								
Keep your encryption key safe, but easily accessible for disaster recovery. We recommend the following safe-keeping strategy:									
1. Save the key in your password manager.									
2. Download the key to a USB (pen) drive, placed in secure vault.									
3. Print as paperkey, laminated and placed in secure vault.									
Please save the encryption key - losing it will render any backup created with it unusable									
		Close							

Tiến hành Backup 1 VM để xem có cấu hình thành công hay chưa – Chọn VM – Sau đó chọn **Backup** – Chọn **Protected** sau đó ta nhấn **Backup**

Virtual Machine 103 (Ju	umpserver-RDP) on no	ode 'pve' 🛛 No Tags 🖋	-			Start	🖞 Shutdown 🗸 🕽	_ Console ∨ More	e 🗸 🔞 Help
Summary									
>_ Console						Format			
Hardware									
📥 Cloud-Init									
Options									
Task History	Backup VM 10	3							
Monitor									
🖺 Backup	Storage:	Backup-Test			ast and good)				
Replication	Mode:	Snapshot	Notification mode:	Auto					
Snapshots	Protected:		Send email t	o: none					
♥ Firewall	Notoo	[[auostnomo]]							
Permissions	Notes.	{{guestilaine}}							
	Possible template	e variables are: {{cluste	er}}, {{guestname}},	{{node}}, {{v	mid}}				
	O Help				Backup				

Sau đó ta kiểm tra lại thì Backup đã được mã hóa

Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags 🖌 No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-RDP) on node 'pve' No Tags Virtual Machine 103 (Jumpserver-R												
Summary	Backup now	Restore	File Restore	Show C	onfiguration	Edit Notes	Chang	e Protection Remove	Sto	rage: Backup-Te	st 🗸	🛛 🗹 Filter 🔷
>_ Console	Name				Notes		U	Date \downarrow	Format	Size	Encrypted	Verify State
Hardware	vm/103/2024-08-1	9T02:56:32Z			Jumpserve	er-RDP	U	2024-08-19 09:56:32	pbs-vm	34.36 GB	Encrypted	ONONE
🗅 Cloud-Init												
Options												
Task History												
Monitor												
🖹 Backup												
Replication												
Snapshots												
♥ Firewall												
Permissions												

Kiểm tra bên Proxmox Backup Server cũng đã thấy biểu tượng Encrypted

Backup Group ↑	Comment	Actions 1	Backup Time 个	Size	Count	Owner	Encrypted	Verify State
🖳 🥃 Root Namespace								
– 🖵 vm/103	ø	V. 🚢 🦗 📋	2024-08-19 09:56:32			root@pam	Encrypted	ONONE
[⊥] 🗁 vm/103/2024-08-19T02:56:32Z (pr	Jumpserver-RDP 🔗	V. 🛡 💼	2024-08-19 09:56:32	32.00 GiB		root@pam	Encrypted	None
- 🕒 client.log.blob		2						
- 🕒 drive-scsi0.img.fidx				32.00 GiB			Encrypted	
- 🕒 index.json.blob		*		542 B			Signed	
🖞 🕒 qemu-server.conf.blob				389 B			Encrypted	

Tạo 1 Server Proxmox Backup khác , copy dữ liệu Backup của Proxmox Backup ở trên sang sau đó Restore thử thì không thể Restore do không có KEY.

		Restore: VM								
		Source:	vm/103/2024-08-19T02:56:32Z							
		Storage:								
	Error			\otimes						
proxmox-backup-client failed: Error: missing key - manifest was created with key 01:a0:85:31:49:2e:85:68 (500)										
			ОК							
		Name:	Memory:							
		Cores:	Sockets:							
			Restore							