



BÁO CÁO ĐÁNH GIÁ BẢO TRÌ

Hệ thống: Quản lý truy cập tài khoản đặc quyền CyberArk PAM

Khách hàng: “Cục Tin học và Thống kê tài chính”

Hà Nội, 04/2024

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1 THÔNG TIN CHUNG

Thời gian thực hiện 08/04/2024

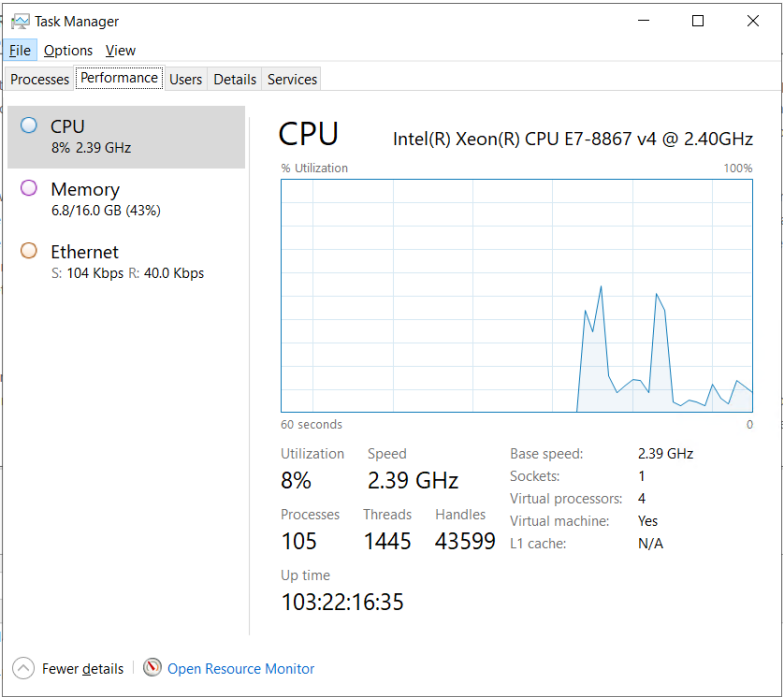
Địa điểm thực hiện: Trụ sở cơ quan Bộ Tài chính, 28 Trần Hưng Đạo, Hoàn Kiếm, Hà Nội

Đơn vị thực hiện: Công ty Cổ phần Dịch vụ Công Nghệ Tin học HPT

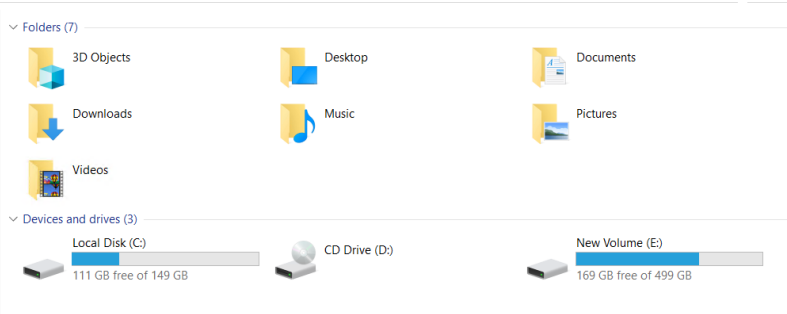
2 NỘI DUNG CHI TIẾT

2.1 ĐÁNH GIÁ THÔNG TIN VÀ CẤU HÌNH HỆ THỐNG

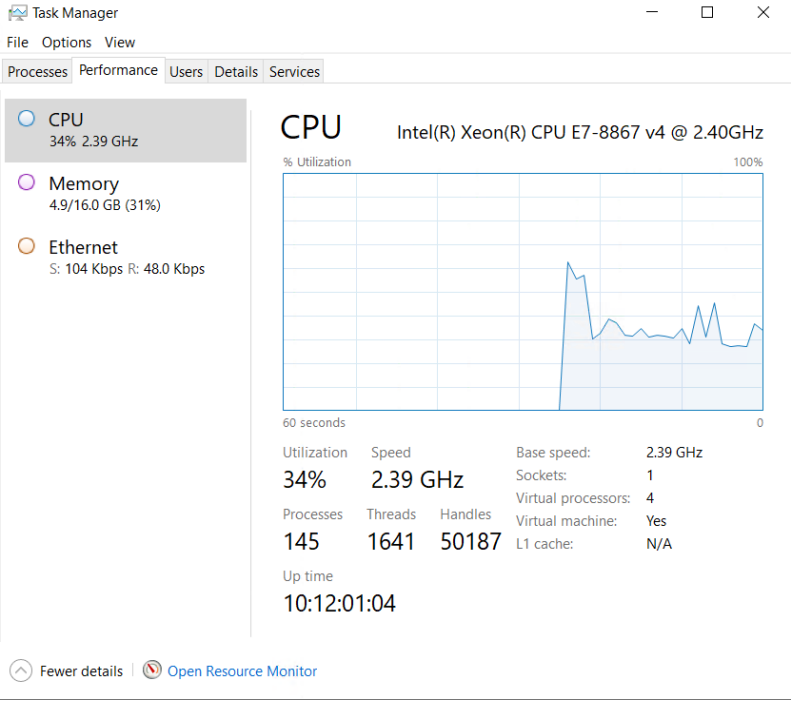
STT	Nội dung kiểm tra	Tiêu chí đánh giá	Kết quả	Khuyến nghị
1. Kiểm tra thông tin hệ thống				
1.1	Thông tin phần cứng	<div>CPU, RAM, HDD < 80%, System time: Đúng với thời gian thực tế</div> <ul style="list-style-type: none">Máy chủ Vault DCMáy chủ PVWA – CPM DCMáy chủ PSM DCMáy chủ Vault DRMáy chủ PVWA – CPM DRMáy chủ PSM DR	<div>Thông tin phần cứng trên máy chủ Vault:</div> <div>OS: Windows Server 2019 Standard English</div> <div>Hostname: PIM-DC-EPV-N</div> <div>IP: 10.192.252.74</div> <div>Workgroup: WORKGROUP</div>	<div>Mức độ sử dụng CPU và Ram đang ở mức bình thường dưới 80%</div> <div>Các phân vùng E của các máy chủ Vault DC, Backup Vault và Vault DR đang có dấu hiệu đầy => Cần rà soát để xóa bớt các thư mục không cần thiết</div>



Thông số CPU, RAM: Bình thường



			<div><div>Thông số HDD: Phân vùng ổ E sắp đầy</div><div><div>Date & time</div><div>Date and time</div><div>3:05 PM, Monday, April 8, 2024</div><div>Set time automatically<div><div></div>Off</div></div><div>Set time zone automatically<div><div></div>Off</div></div><div>Change date and time<div>Change</div></div><div>Time zone<div>(UTC+07:00) Bangkok, Hanoi, Jakarta</div></div><div>Adjust for daylight saving time automatically<div><div></div>Off</div></div><div>Show additional calendars in the taskbar<div>Don't show additional calendars</div></div></div><div><div>Thông số Time: đúng với thời gian thực tế</div><div>Thông tin phần cứng trên máy chủ Backup Vault :</div><div>OS: Windows Server 2019 Standard English</div></div></div>	
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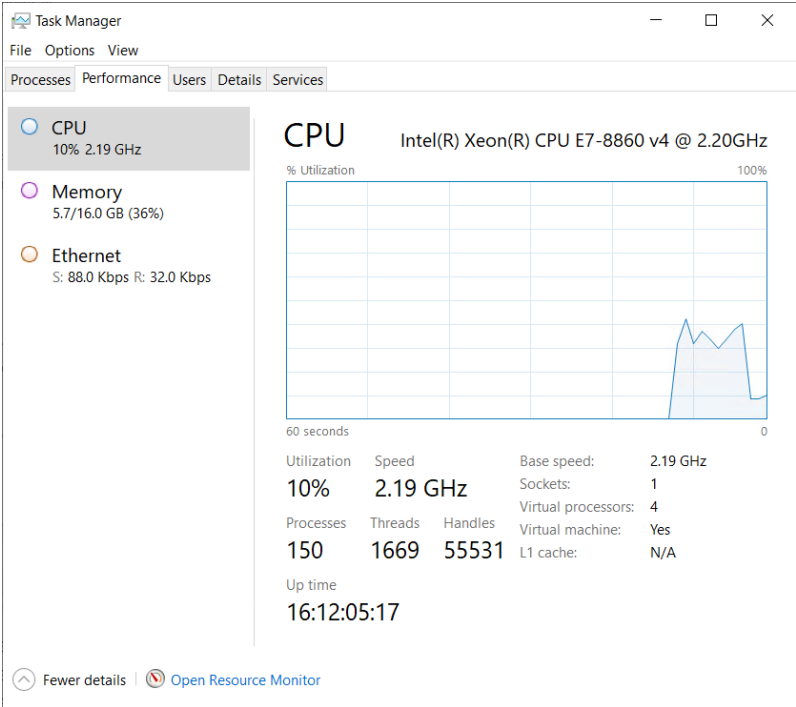
			<div>Hostname: PIM-BackupSrv-N</div> <div>IP: 10.192.252.75</div> <div>Workgroup: WORKGROUP</div> <div><p>The screenshot shows the Windows Task Manager Performance tab. On the left, there are three sections: CPU (34% utilization, 2.39 GHz), Memory (4.9/16.0 GB, 31% utilization), and Ethernet (S: 104 Kbps, R: 48.0 Kbps). The CPU section is selected. On the right, the CPU details are shown: Intel(R) Xeon(R) CPU E7-8867 v4 @ 2.40GHz. Below this is a line graph showing % Utilization over 60 seconds, with a peak around 34%. At the bottom, there is a table with the following data: Utilization: 34%, Speed: 2.39 GHz, Base speed: 2.39 GHz, Sockets: 1, Virtual processors: 4, Processes: 145, Threads: 1641, Handles: 50187, Virtual machine: Yes, L1 cache: N/A. The up time is 10:12:01:04. At the bottom of the screenshot, there are links for 'Fewer details' and 'Open Resource Monitor'.</p></div> <div>Thông số CPU, RAM: Bình thường</div>	
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			<div><div>✓ Folders (7)</div><div><div>3D Objects</div><div>Desktop</div><div>Documents</div><div>Downloads</div><div>Music</div><div>Pictures</div><div>Videos</div></div><div>✓ Devices and drives (3)</div><div><div>Local Disk (C:) 125 GB free of 149 GB</div><div>DVD Drive (D:)</div><div>New Volume (E:) 175 GB free of 499 GB</div></div></div> <div>Thông số HDD: Phân vùng ổ E sắp đầy</div>	
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IP: 10.192.252.248

Workgroup: WORKGROUP



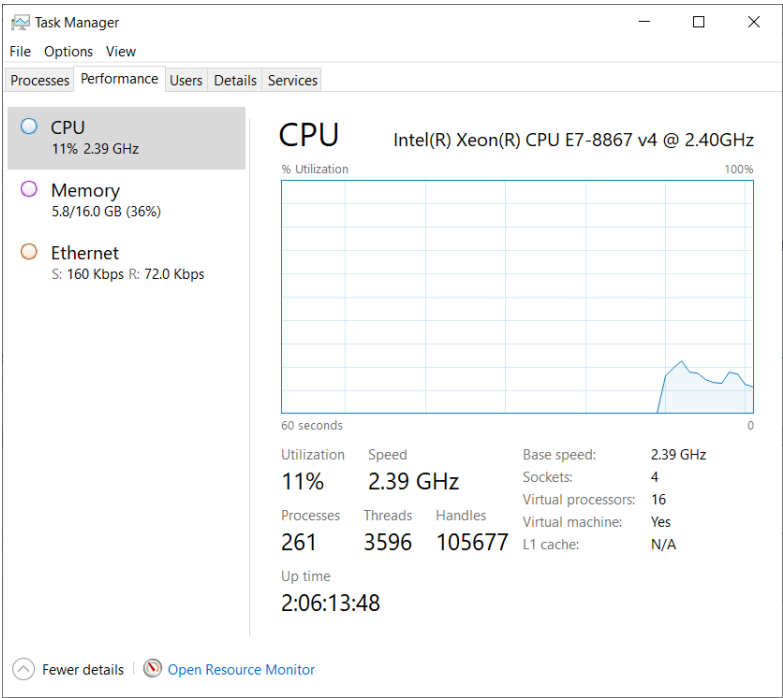
Thông số CPU, RAM: Bình thường

			<div data-bbox="1003 231 1787 568"><div>▼ Folders (7)</div><div><div>3D Objects</div><div>Desktop</div><div>Documents</div><div>Downloads</div><div>Music</div><div>Pictures</div><div>Videos</div></div><div>▼ Devices and drives (2)</div><div><div>Local Disk (C:) 112 GB free of 149 GB</div><div>DVD Drive (D:)</div></div></div> <p data-bbox="1218 604 1563 632">Thông số HDD: Bình thường</p>	
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IP: 10.192.252.90

Workgroup: WORKGROUP



Thông số CPU, RAM: Bình thường

			<div><div>Date & time</div><div>Date and time</div><div>3:28 PM, Monday, April 8, 2024</div><div>Set time automatically</div><div><div></div>Off</div><div>Set time zone automatically</div><div><div></div>Off</div><div>Change date and time</div><div>Change</div><div>Time zone</div><div>(UTC+07:00) Bangkok, Hanoi, Jakarta</div><div>Adjust for daylight saving time automatically</div><div><div></div>Off</div><div>Show additional calendars in the taskbar</div><div>Don't show additional calendars</div><div>Thông số Time: đúng với thời gian thực tế</div><div>Thông tin phần cứng trên máy chủ Vault tại DR:</div><div>OS: Windows Server 2019 Standard English</div><div>Hostname: PIM-DR-EPV-N</div><div>IP: 10.192.252.91</div></div>	
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			<div><div>Workgroup: WORKGROUP</div><div><div><div>Task Manager</div><div><div>FileOptionsView</div><div>ProcessesPerformanceUsersDetailsServices</div></div><div><div>CPU</div><div>40% 2.39 GHz</div></div><div><div>Memory</div><div>6.5/16.0 GB (41%)</div></div><div><div>Ethernet</div><div>S: 56.0 Kbps R: 208 Kbps</div></div></div><div><div>CPU</div><div>Intel(R) Xeon(R) CPU E7-8867 v4 @ 2.40GHz</div><div><div>% Utilization</div><div><div>60 seconds</div><div>100%</div><div>0</div></div></div><div><div>Utilization</div><div>40%</div><div><div>Speed</div><div>2.39 GHz</div></div><div><div>Base speed:</div><div>2.39 GHz</div></div><div><div>Sockets:</div><div>1</div></div><div><div>Virtual processors:</div><div>4</div></div><div><div>Processes</div><div>103</div><div><div>Threads</div><div>1288</div></div><div><div>Handles</div><div>39452</div></div><div><div>Virtual machine:</div><div>Yes</div></div><div><div>L1 cache:</div><div>N/A</div></div></div><div><div>Up time</div><div>80:02:50:36</div></div><div><div>Fewer details</div><div>Open Resource Monitor</div></div></div></div><div>Thông số CPU, RAM: Bình thường</div></div></div>	
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			<div><div><div>▼ Folders (7)</div><div><div>3D Objects</div><div>Desktop</div><div>Documents</div><div>Downloads</div><div>Music</div><div>Pictures</div><div>Videos</div></div></div><div><div>▼ Devices and drives (3)</div><div><div>Local Disk (C:) 119 GB free of 149 GB</div><div>CD Drive (D:)</div><div>New Volume (E:) 169 GB free of 499 GB</div></div></div></div> <div>Thông số HDD: Phân vùng ổ E sắp đầy</div>	
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			<div><div>Date & time</div><div>Date and time</div><div>3:32 PM, Monday, April 8, 2024</div><div>Set time automatically</div><div><div></div>Off</div><div>Set time zone automatically</div><div><div></div>Off</div><div>Change date and time</div><div>Change</div><div>Time zone</div><div>(UTC+07:00) Bangkok, Hanoi, Jakarta</div><div>Adjust for daylight saving time automatically</div><div><div></div>Off</div><div>Show additional calendars in the taskbar</div><div>Don't show additional calendars</div><div>Thông số Time: đúng với thời gian thực tế</div></div>	
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1.2	<div>Thông tin phiên bản (Version):</div> <div>Run ></div> <div>appwiz.cpl ></div> <div>CyberArk Software</div>	<div>Version:</div> <ul style="list-style-type: none">VaultPVWACPM - PSMDR	<div>Thông tin phiên bản Vault tại DC:</div> <table><thead><tr><th>Name</th><th>Publisher</th><th>Installed On</th><th>Size</th><th>Version</th></tr></thead><tbody><tr><td>Ajiant</td><td>Viettel Cyber Security</td><td>3/29/2023</td><td>175 MB</td><td>4.5.0</td></tr><tr><td>ClickOnce Bootstrapper Package for Microsoft .NET Framework 4.8</td><td>Microsoft Corporation</td><td>12/7/2023</td><td>248 KB</td><td>4.8.04162</td></tr><tr><td>CyberArk Digital Vault 12.6.0</td><td>CyberArk</td><td>12/25/2023</td><td></td><td>12.06.00.21</td></tr><tr><td>CyberArk Vault Disaster Recovery 12.6.0</td><td>CyberArk</td><td>12/25/2023</td><td></td><td>12.06.00.21</td></tr><tr><td>McAfee Endpoint Security Platform</td><td>McAfee, LLC.</td><td>11/3/2022</td><td>128 MB</td><td>10.7.0</td></tr><tr><td>McAfee Endpoint Security Threat Prevention</td><td>McAfee, LLC.</td><td>11/3/2022</td><td>35.3 MB</td><td>10.7.0</td></tr><tr><td>Microsoft .NET Framework 4.8 SDK</td><td>Microsoft Corporation</td><td>12/7/2023</td><td>20.5 MB</td><td>4.8.03928</td></tr><tr><td>Microsoft .NET Framework 4.8 Targeting Pack</td><td>Microsoft Corporation</td><td>12/7/2023</td><td>43.6 MB</td><td>4.8.03761</td></tr><tr><td>Microsoft .NET Framework 4.8 Targeting Pack (ENU)</td><td>Microsoft Corporation</td><td>12/7/2023</td><td>68.3 MB</td><td>4.8.03761</td></tr><tr><td>Microsoft Visual C++ 2008 Redistributable - 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CyberArk Privileged Session Manager12.6.7.2	CyberArk	1/10/2024		12.6.7.2
IMacros Version 10.4.28.1074 (x64)	Ipswitch, Inc	1/9/2024	39.2 MB	10.4.28.1074
Infognition ScreenPressor v2.0 (Remove Only)		1/18/2024		
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Microsoft Visual C++ 2015-2022 Redistributable (x64)...	Microsoft Corporation	12/7/2023	20.6 MB	14.38.33130.0
Notepad++ (64-bit x64)	Notepad++ Team	12/7/2023	13.5 MB	8.4.5

Phiên bản hệ thống đang ở phiên bản mới

Thông tin phiên bản Vault tại DR:

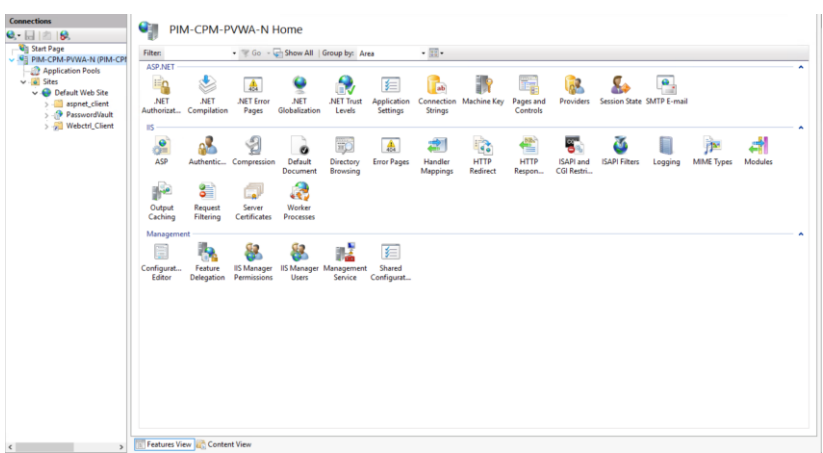
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Phiên bản hệ thống đang ở phiên bản mới

Thông tin phiên bản Backup Vault tại DC:

			<div><table><tr><th>Name</th><th>Publisher</th><th>Installed On</th><th>Size</th><th>Version</th></tr><tr><td>Ajiant</td><td>Viettel Cyber Security</td><td>3/29/2023</td><td>175 MB</td><td>4.5.0</td></tr><tr><td>Microsoft Visual C++ 2008 Redistributable - x64 9.0.3...</td><td>Microsoft Corporation</td><td>7/7/2022</td><td>13.2 MB</td><td>9.0.30729.6161</td></tr><tr><td>Microsoft Visual C++ 2008 Redistributable - x86 9.0.3...</td><td>Microsoft Corporation</td><td>7/7/2022</td><td>10.1 MB</td><td>9.0.30729.6161</td></tr><tr><td>Replicator 12.6.0</td><td>CyberArk</td><td>1/19/2024</td><td></td><td>12.06.00.21</td></tr><tr><td>Server Endpoint 2017.7.37</td><td>Viettel Cyber Security</td><td>12/1/2023</td><td>119 MB</td><td>2017.7.37</td></tr><tr><td>Trellix Agent</td><td>Trellix</td><td>11/3/2022</td><td></td><td>5.7.7.378</td></tr><tr><td>Trellix Endpoint Security Platform</td><td>Trellix</td><td>12/1/2023</td><td>149 MB</td><td>10.7.0</td></tr><tr><td>Trellix Endpoint Security Threat Prevention</td><td>Trellix</td><td>12/1/2023</td><td>43.8 MB</td><td>10.7.0</td></tr><tr><td>VMware Tools</td><td>VMware, Inc.</td><td>7/7/2022</td><td>77.0 MB</td><td>10.1.15.6677369</td></tr></table></div> <div>Phiên bản hệ thống đang ở phiên bản mới</div>	Name	Publisher	Installed On	Size	Version	Ajiant	Viettel Cyber Security	3/29/2023	175 MB	4.5.0	Microsoft Visual C++ 2008 Redistributable - x64 9.0.3...	Microsoft Corporation	7/7/2022	13.2 MB	9.0.30729.6161	Microsoft Visual C++ 2008 Redistributable - x86 9.0.3...	Microsoft Corporation	7/7/2022	10.1 MB	9.0.30729.6161	Replicator 12.6.0	CyberArk	1/19/2024		12.06.00.21	Server Endpoint 2017.7.37	Viettel Cyber Security	12/1/2023	119 MB	2017.7.37	Trellix Agent	Trellix	11/3/2022		5.7.7.378	Trellix Endpoint Security Platform	Trellix	12/1/2023	149 MB	10.7.0	Trellix Endpoint Security Threat Prevention	Trellix	12/1/2023	43.8 MB	10.7.0	VMware Tools	VMware, Inc.	7/7/2022	77.0 MB	10.1.15.6677369																																							
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1.3	<div>Thông tin License: Truy cập vào Vault > Tools > Report > License Capacity Report</div>	<div>License Used:<ul style="list-style-type: none">User</div>	<div>Thông tin về License đã sử dụng:</div> <div><div><table><tr><th>Licensed object</th><th>Description</th><th>Used</th><th>Maximum</th></tr><tr><td>EPVUser</td><td>Enterprise Password Vault End User</td><td>50</td><td>50</td></tr><tr><td>AIMAccount</td><td>Application Account</td><td>0</td><td>10</td></tr><tr><td>CPM</td><td>Central Policy Manager</td><td>1</td><td>1</td></tr><tr><td>PVWA</td><td>Password Vault Web Access</td><td>1</td><td>2</td></tr><tr><td>PSMHTML5Gateway</td><td>Privileged Session Manager HTML5 Gateway</td><td>0</td><td>8</td></tr><tr><td>PSM</td><td>Privileged Session Manager</td><td>1</td><td>4</td></tr><tr><td>AppProvider</td><td>Application Password Provider</td><td>0</td><td>1</td></tr><tr><td>PSMPADBridge</td><td>Privileged Session Manager SSH Proxy ADBridge</td><td>0</td><td>4</td></tr><tr><td>PSMPServer</td><td>Privileged Session Manager SSH Proxy</td><td>0</td><td>4</td></tr><tr><td>DR_Fallback</td><td>DR fallback user type</td><td>0</td><td>1</td></tr><tr><td>ENE</td><td>Event notification engine user</td><td>1</td><td>1</td></tr><tr><td>PTA</td><td>Privileged Threats Analytics</td><td>0</td><td>10</td></tr><tr><td>Telemetry</td><td>Telemetry Tool Application User</td><td>0</td><td>5</td></tr><tr><td>IDaptive</td><td>CyberArk SaaS Integration User Type for IDaptive applic...</td><td>0</td><td>3</td></tr><tr><td>DiscoveryApp</td><td>Discovery Management Service Application User</td><td>0</td><td>8</td></tr><tr><td>xRayAdminApp</td><td>An Application User for CyberArk xRay Software</td><td>0</td><td>3</td></tr><tr><td>PSMWeb</td><td>A PSM for Web Dedicated User Type Used for Managing ...</td><td>0</td><td>100</td></tr><tr><td>EPMUser</td><td>An EPM Integration User</td><td>0</td><td>5</td></tr><tr><td>DAPService</td><td>An Application User for CyberArk AAM Backend Service</td><td>0</td><td>8</td></tr><tr><td>PSMForServers</td><td>PSM For Servers Count</td><td>0</td><td>500</td></tr><tr><td>PSMForDB</td><td>PSM For DB Count</td><td>0</td><td>0</td></tr></table></div><div>Đã sử dụng gần hết số lượng User</div></div>	Licensed object	Description	Used	Maximum	EPVUser	Enterprise Password Vault End User	50	50	AIMAccount	Application Account	0	10	CPM	Central Policy Manager	1	1	PVWA	Password Vault Web Access	1	2	PSMHTML5Gateway	Privileged Session Manager HTML5 Gateway	0	8	PSM	Privileged Session Manager	1	4	AppProvider	Application Password Provider	0	1	PSMPADBridge	Privileged Session Manager SSH Proxy ADBridge	0	4	PSMPServer	Privileged Session Manager SSH Proxy	0	4	DR_Fallback	DR fallback user type	0	1	ENE	Event notification engine user	1	1	PTA	Privileged Threats Analytics	0	10	Telemetry	Telemetry Tool Application User	0	5	IDaptive	CyberArk SaaS Integration User Type for IDaptive applic...	0	3	DiscoveryApp	Discovery Management Service Application User	0	8	xRayAdminApp	An Application User for CyberArk xRay Software	0	3	PSMWeb	A PSM for Web Dedicated User Type Used for Managing ...	0	100	EPMUser	An EPM Integration User	0	5	DAPService	An Application User for CyberArk AAM Backend Service	0	8	PSMForServers	PSM For Servers Count	0	500	PSMForDB	PSM For DB Count	0	0	<div>Đã Sử dụng hết số lượng User (50/50), đề xuất bổ sung license.</div>
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EPVUser	Enterprise Password Vault End User	50	50																																																																																									
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2. Kiểm tra dịch vụ các thành phần hệ thống																																																																																												
2.1	Vaul tại DC	Services: Running	Thông tin các dịch vụ trên Vault tại DC:	Không có khuyến nghị																																																																																								

- CyberArk.WebConsole.log



Thông số các dịch vụ: Bình thường

Thông tin Logs trên PVWA-CPM tại DC:

```
File Edit Format View Help
CyberArk.WebConsole - Notepad
[04/01/2024 14:52:08.828039] [pid=14348] [tid=11096] [1] TKS0RW01 Webservice call failed, Reason: unable to connect to the remote server
[05/01/2024 11:32:23.220780] [pid=14348] [tid=11096] [1] TKS0RW01 Webservice call failed, Reason: unable to connect to the remote server
[05/01/2024 11:33:08.570287] [pid=1156] [tid=4668] [1] TKS0RW02 Start Tasks service
[05/01/2024 11:43:30.609962] [pid=10800] [tid=4598] [1] TKS0RW02 Start Tasks service
[05/01/2024 11:17:11.883213] [pid=11080] [tid=4688] [1] TKS0RW02 Start Tasks service
[05/01/2024 15:10:47.209066] [pid=11080] [tid=4598] [1] TKS0RW01 Webservice call failed, Reason: unable to connect to the remote server
[05/01/2024 15:11:28.507287] [pid=11080] [tid=4084] [1] TKS0RW02 Start Tasks service
[09/01/2024 10:00:40.933399] [pid=1172] [tid=5888] [1] TKS0RW02 Start Tasks service
[12/01/2024 01:47:44.083200] [pid=1172] [tid=6784] [1] TKS0RW01 Webservice call failed, Reason: the request failed with HTTP status 503: Service Unavailable.
[12/01/2024 01:48:25.187716] [pid=1112] [tid=4528] [1] TKS0RW02 Start Tasks service
[13/01/2024 01:50:06.168761] [pid=16000] [tid=4612] [1] TKS0RW02 Start Tasks service
[01/02/2024 09:49:05.791990] [pid=1156] [tid=4080] [1] TKS0RW02 Start Tasks service
[02/02/2024 07:40:31.501003] [pid=1156] [tid=6784] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[02/02/2024 07:40:46.612926] [pid=1156] [tid=6784] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[11/02/2024 14:40:55.826061] [pid=1156] [tid=6784] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[12/02/2024 14:50:10.872801] [pid=1156] [tid=6784] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[18/02/2024 01:17:59.538895] [pid=2280] [tid=4316] [1] TKS0RW02 Start Tasks service
[23/02/2024 07:18:47.071311] [pid=2280] [tid=6366] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[24/02/2024 18:18:41.843272] [pid=2280] [tid=6366] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[24/02/2024 18:18:56.889166] [pid=2280] [tid=6366] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[26/02/2024 14:10:22.488781] [pid=2280] [tid=6366] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[28/02/2024 18:09:11.558180] [pid=2280] [tid=6366] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
[28/02/2024 18:09:36.558883] [pid=1100] [tid=4080] [1] TKS0RW02 Start Tasks service
[23/03/2024 01:17:32.184315] [pid=1120] [tid=4644] [1] TKS0RW02 Start Tasks service
[04/04/2024 12:18:31.189664] [pid=1120] [tid=6880] [1] TKS0RW01 Webservice call failed, Reason: System.Web.Services.Protocols.SoapException: Server was unable to process r
```

Thông tin cyberArk.WebConsole.log: Bình thường, không có lỗi mới

Hệ thống: Quản lý truy cập tài khoản đặc quyền CyberArk PAM

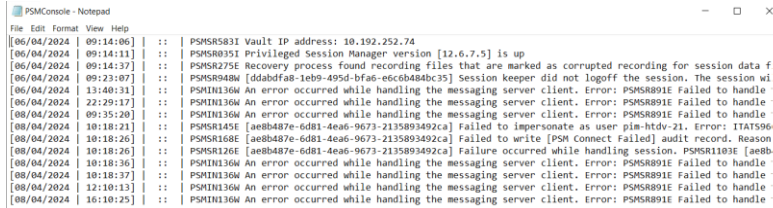
The image displays two screenshots of Notepad files, likely containing log data. The top screenshot is titled 'pm - Notepad' and shows a list of log entries with timestamps and error codes. The bottom screenshot is titled 'pm_error - Notepad' and shows a list of log entries with timestamps and error codes.

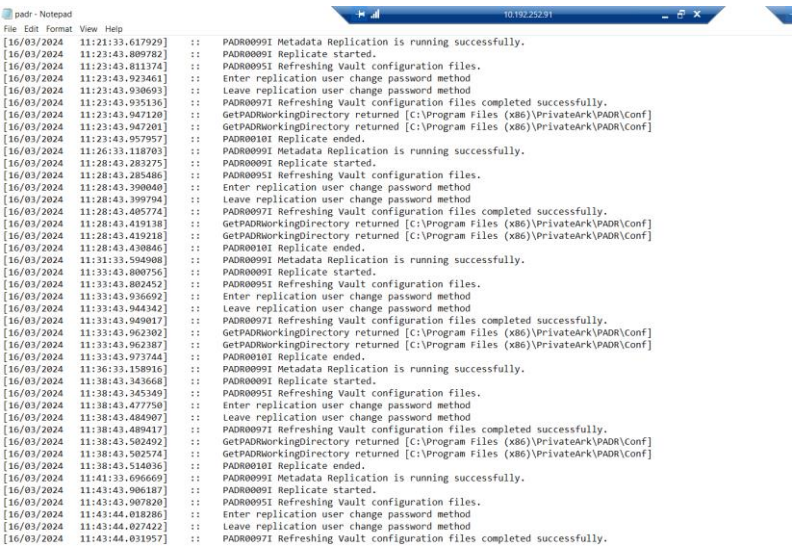
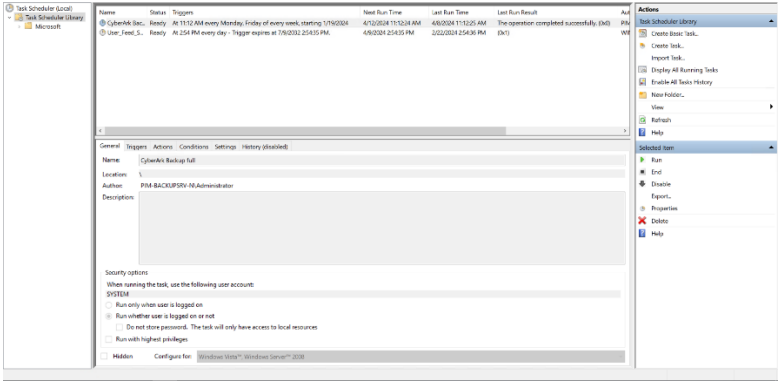
pm - Notepad

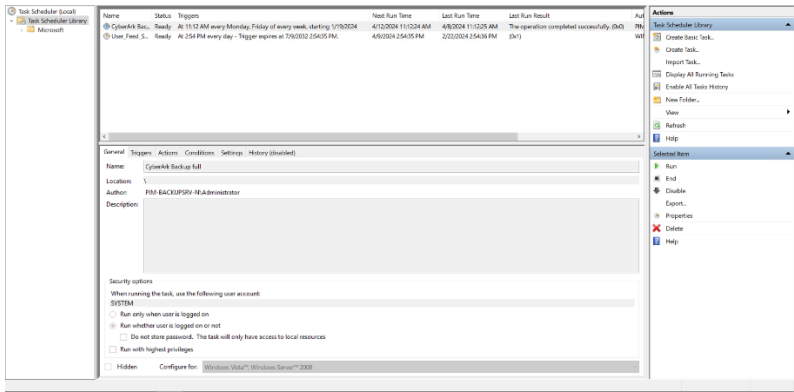
```
08/04/2024 16:13:13 [351c] CACPM098I Ending Policy Manager Policy-Azure.ini.
08/04/2024 16:13:13 [0910] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:13 [0910] CACPM098I Ending Policy Manager Policy-INITConfigFile.ini.
08/04/2024 16:13:13 [35f0] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:13 [35f0] CACPM098I Ending Policy Manager Policy-TextConfigFile.ini.
08/04/2024 16:13:13 [20b4] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:13 [20b4] CACPM098I Ending Policy Manager Policy-VMWareESX-SSH.ini.
08/04/2024 16:13:14 [20e0] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [20e0] CACPM098I Ending Policy Manager Policy-MOF_SIEVIAHTTPS.ini.
08/04/2024 16:13:14 [051c] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [051c] CACPM098I Ending Policy Manager Policy-MOF_DDoSVIAHTTPS.ini.
08/04/2024 16:13:14 [44fc] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [44fc] CACPM098I Ending Policy Manager Policy-IISAnonymous.ini.
08/04/2024 16:13:14 [0790] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [0790] CACPM098I Ending Policy Manager Policy-MOF_AlgoSec-fireflowviaHTTPS.ini.
08/04/2024 16:13:14 [40e4] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [40e4] CACPM098I Ending Policy Manager Policy-Registry.ini.
08/04/2024 16:13:14 [2968] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [2968] CACPM098I Ending Policy Manager Policy-LocalPrivateSSHKey.ini.
08/04/2024 16:13:14 [20cc] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [20cc] CACPM098I Ending Policy Manager Policy-MOF_F5viaHTTPS.ini.
08/04/2024 16:13:14 [49e4] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [49e4] CACPM098I Ending Policy Manager Policy-JuniperSRX.ini.
08/04/2024 16:13:14 [442c] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [442c] CACPM098I Ending Policy Manager Policy-CiscoSSH.ini.
08/04/2024 16:13:14 [4638] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [4638] CACPM098I Ending Policy Manager Policy-MOF_McafeeWebGatewayviaHTTPS.ini.
08/04/2024 16:13:14 [4240] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:13:14 [4240] CACPM098I Ending Policy Manager Policy-MOF_PolicyGuardiaHTTPS.ini.
```

pm_error - Notepad

```
08/04/2024 16:09:11 [07f8] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [32cc] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [49f0] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [4534] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [4554] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [3214] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [17f8] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [4b74] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [4110] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [4b84] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [4548] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [360c] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [3bdc] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [4ad4] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [38a8] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [2108] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [426c] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [1010] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:09:11 [2c68] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [2a18] CACPM161E Password change component .\bin\CyberArk.Extensions.Plugin.Azure.dll was not found.
08/04/2024 16:10:11 [2d28] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [46ec] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [3cbc] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [3648] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [0850] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [1014] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [4224] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [3f68] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
08/04/2024 16:10:11 [4500] CACPM161E Password change component .\bin\PMTerminal.exe was not found.
```

			Thông tin pm_error.log: Bình thường, không có lỗi mới																																	
2.4	PSM tại DC	<div>Services: Running<ul style="list-style-type: none">CyberArk Privileged Session Manager</div> <div>Logs: Không có cảnh báo lỗi<ul style="list-style-type: none">PSMConsole.log</div>	<div>Thông tin các dịch vụ trên PSM :</div> <div><table><tr><td>CyberArk Central Policy Manager Scanner</td><td>The CyberAr...</td><td>Automatic</td><td>Local System</td></tr><tr><td>CyberArk Password Manager</td><td>Policy Mana...</td><td>Running</td><td>Automatic</td></tr><tr><td>CyberArk Privileged Session Manager</td><td>Privileged Se...</td><td>Running</td><td>Automatic</td></tr><tr><td></td><td></td><td></td><td>Local System</td></tr></table></div> <div>Thông số các dịch vụ: Bình thường</div> <div>Thông tin Logs trên PSM:</div> <div></div> <div>Thông tin Logs: Bình thường, không có lỗi mới</div>	CyberArk Central Policy Manager Scanner	The CyberAr...	Automatic	Local System	CyberArk Password Manager	Policy Mana...	Running	Automatic	CyberArk Privileged Session Manager	Privileged Se...	Running	Automatic				Local System	Không có khuyến nghị																
CyberArk Central Policy Manager Scanner	The CyberAr...	Automatic	Local System																																	
CyberArk Password Manager	Policy Mana...	Running	Automatic																																	
CyberArk Privileged Session Manager	Privileged Se...	Running	Automatic																																	
			Local System																																	
2.5	Vault tại DR	<div>Services: Running<ul style="list-style-type: none">PrivateArk Database.CyberArk Logic Container.CyberArk Vault Disaster Recovery</div> <div>Logs: Không có cảnh báo lỗi<ul style="list-style-type: none">PADR.log</div>	<div>Thông tin các dịch vụ trên DR:</div> <div><table><tr><td>CyberArk Event Notificatio...</td><td></td><td>Manual</td><td>Local System</td></tr><tr><td>CyberArk Hardened Windo...</td><td>Windows De...</td><td>Running</td><td>Automatic</td></tr><tr><td>CyberArk Logic Container</td><td></td><td>Running</td><td>Automatic</td></tr><tr><td>CyberArk Vault Disaster Reco...</td><td></td><td>Running</td><td>Automatic</td></tr><tr><td></td><td></td><td></td><td>Local System</td></tr><tr><td>PrivateArk Database</td><td></td><td>Running</td><td>Automatic</td></tr><tr><td>PrivateArk Remote Control A...</td><td></td><td></td><td>Local System</td></tr><tr><td>PrivateArk Server</td><td></td><td>Manual</td><td>Local System</td></tr></table></div> <div>Thông số các dịch vụ: Bình thường</div>	CyberArk Event Notificatio...		Manual	Local System	CyberArk Hardened Windo...	Windows De...	Running	Automatic	CyberArk Logic Container		Running	Automatic	CyberArk Vault Disaster Reco...		Running	Automatic				Local System	PrivateArk Database		Running	Automatic	PrivateArk Remote Control A...			Local System	PrivateArk Server		Manual	Local System	Không có khuyến nghị
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PrivateArk Remote Control A...			Local System																																	
PrivateArk Server		Manual	Local System																																	

				
			<p>Thông tin Logs: Bình thường, không có lỗi mới</p>	
2.6	Backup	<p>Task Scheduler: Ready</p> <ul style="list-style-type: none"> CyberArk Vault Full Backup 	<p>Thông số Task Scheduler trên máy chủ Backup:</p> 	<p>Thông số phù hợp</p>
			<p>Thông tin Task Scheduler: Bình thường</p>	

3. Kiểm tra sao lưu dữ liệu của hệ thống				
3.1	Cấu hình và tần suất	CyberArk Vault Full Backup: Backup đầy đủ	<div></div> <p>CyberArk Vault Full Backup:</p> <p>Thực hiện vào 11:12 AM mỗi thứ 2 và thứ 6 hàng tuần</p>	Thông số phù hợp

2.2 KIỂM TRA, RÀ SOÁT CHÍNH SÁCH BẢO MẬT CỦA HỆ THỐNG

STT	Nội dung kiểm tra	Tiêu chí đánh giá	Kết Quả	Đánh giá																																										
1	Chính sách quản lý mật khẩu	<div>Các chính sách trong Master Policy liên quan đến việc quản lý mật khẩu. Một số tham số chính sách quan trọng bao gồm:</div> <ul style="list-style-type: none">Require dual control password access approval: ActiveEnforce checkin/checkout exclusive access: InactiveEnforce one-time password access: InactiveAllow EPV transparent connections: ActiveRequire users to specify reason for access: InactiveRequire password change every X days: 60Require password verification every X days: 7	<div><div>▼ Privileged Access Workflows</div><table><tr><th>Policy Rule</th><th>Value</th><th>Exceptions</th></tr><tr><td>Require dual control password access approval</td><td>Active</td><td>-</td></tr><tr><td>Enforce check-in/check-out exclusive access</td><td>Inactive</td><td>-</td></tr><tr><td>Enforce one-time password access</td><td>Inactive</td><td>-</td></tr><tr><td>Allow EPV transparent connections ('Click to connect')</td><td>Active</td><td>-</td></tr><tr><td>Require users to specify reason for access</td><td>Inactive</td><td>-</td></tr></table><div>▼ Password Management</div><table><tr><th>Policy Rule</th><th>Value</th><th>Exceptions</th></tr><tr><td>Require password change every X days</td><td>60</td><td>-</td></tr><tr><td>Require password verification every X days</td><td>7</td><td>-</td></tr></table><div>▼ Session Management</div><table><tr><th>Policy Rule</th><th>Value</th><th>Exceptions</th></tr><tr><td>Require privileged session monitoring and isolation</td><td>Active</td><td>-</td></tr><tr><td>Record and save session activity</td><td>Active</td><td>-</td></tr></table><div>▼ Audit</div><table><tr><th>Policy Rule</th><th>Value</th><th>Exceptions</th></tr><tr><td>Activities audit retention period</td><td>90</td><td>-</td></tr></table></div>	Policy Rule	Value	Exceptions	Require dual control password access approval	Active	-	Enforce check-in/check-out exclusive access	Inactive	-	Enforce one-time password access	Inactive	-	Allow EPV transparent connections ('Click to connect')	Active	-	Require users to specify reason for access	Inactive	-	Policy Rule	Value	Exceptions	Require password change every X days	60	-	Require password verification every X days	7	-	Policy Rule	Value	Exceptions	Require privileged session monitoring and isolation	Active	-	Record and save session activity	Active	-	Policy Rule	Value	Exceptions	Activities audit retention period	90	-	
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Activities audit retention period	90	-																																												

3.2		<p>Ngoài các chính sách quản lý mật khẩu trong phần Master Policy, chính sách mật khẩu dành cho các tài khoản đặc quyền còn có thể điều chỉnh riêng biệt cho từng loại platform trong Platform Policy. Một số tham số chính sách quan trọng bao gồm:</p> <ul style="list-style-type: none">VFPerformPeriodic-VerificationVFPerformPeriodic-ChangePasswordLengthMinUpperCaseMinLowerCaseMinDigitMinSpecialPasswordForbiddenChars	<div><div><div>MF - Windows Server Local Accounts</div><div><div>Search</div><div>Go</div></div><div><div>Target Account Platform</div><div>U & Workflows</div><div>Properties</div><div>Linked Accounts</div><div>Usage</div><div>Training System</div><div>Privileged Session Management</div><div>Connection Components</div><div>Advanced Password Management</div><div>General</div><div>Privileged Account Management</div><div>CPM Plug-in</div><div>Password Change</div><div>Password Verification</div><div>Password Reconciliation</div><div>Notifications</div><div>Generate Password</div><div>Additional Policy Settings</div><div>General Properties</div></div><div><div>Properties</div><table><tr><th>Name</th><th>Value</th></tr><tr><td>AllowManualChange</td><td>Yes</td></tr><tr><td>PerformPeriodicChange</td><td>Yes</td></tr><tr><td>ResetMinimumAge</td><td>1</td></tr><tr><td>ResetHour</td><td>-1</td></tr><tr><td>ResetMinute</td><td>-1</td></tr><tr><td>ChangeNotificationEmail</td><td>-1</td></tr><tr><td>DisplayOnlyExpiration</td><td>7</td></tr><tr><td>EnforceChange</td><td>-</td></tr><tr><td>EnforcePasswordPolicyOnManualChange</td><td>No</td></tr><tr><td>EnforcePasswordHistory</td><td>7</td></tr></table><div><div>Help</div><div>Notifications</div></div><div>Password Change</div><div>Policy settings for changing passwords.</div><div>Apply OK Cancel</div></div></div><div><div><div>MF - Windows Server Local Accounts</div><div><div>Search</div><div>Go</div></div><div><div>Target Account Platform</div><div>U & Workflows</div><div>Properties</div><div>Linked Accounts</div><div>Usage</div><div>Training System</div><div>Privileged Session Management</div><div>Connection Components</div><div>Advanced Password Management</div><div>General</div><div>Privileged Account Management</div><div>CPM Plug-in</div><div>Password Change</div><div>Password Verification</div><div>Password Reconciliation</div><div>Notifications</div><div>Generate Password</div><div>Additional Policy Settings</div><div>General Properties</div></div><div><div>Properties</div><table><tr><th>Name</th><th>Value</th></tr><tr><td>PasswordLength</td><td>5</td></tr><tr><td>MinUpperCase</td><td>2</td></tr><tr><td>MinLowerCase</td><td>2</td></tr><tr><td>MinDigit</td><td>1</td></tr><tr><td>MinSpecial</td><td>1</td></tr><tr><td>PasswordForbiddenChars</td><td>-</td></tr><tr><td>PasswordMaximumLength</td><td>-</td></tr><tr><td>PasswordSameCharMinPosPosPos</td><td>No</td></tr><tr><td>PasswordRepeatingCharacters</td><td>No</td></tr></table><div><div>Help</div><div>Notifications</div></div><div>Generate Password</div><div>Rules for automatically generating passwords.</div><div>Apply OK Cancel</div></div></div></div></div>	Name	Value	AllowManualChange	Yes	PerformPeriodicChange	Yes	ResetMinimumAge	1	ResetHour	-1	ResetMinute	-1	ChangeNotificationEmail	-1	DisplayOnlyExpiration	7	EnforceChange	-	EnforcePasswordPolicyOnManualChange	No	EnforcePasswordHistory	7	Name	Value	PasswordLength	5	MinUpperCase	2	MinLowerCase	2	MinDigit	1	MinSpecial	1	PasswordForbiddenChars	-	PasswordMaximumLength	-	PasswordSameCharMinPosPosPos	No	PasswordRepeatingCharacters	No	
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3.3	Chính sách quản lý phiên truy cập	Các chính sách trong Master Policy liên quan đến việc quản lý phiên truy cập.	<ul style="list-style-type: none">Require privileged session monitoring and isolation: ActiveRecord and save session activity: Active <div><div>Session Management</div><table><tr><th>Policy Rule</th><th>Value</th><th>Exceptions</th></tr><tr><td>Require privileged session monitoring and isolation</td><td>Active</td><td>-</td></tr><tr><td>Record and save session activity</td><td>Active</td><td>-</td></tr></table></div>	Policy Rule	Value	Exceptions	Require privileged session monitoring and isolation	Active	-	Record and save session activity	Active	-																																		
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	<p>Chính sách phân quyền sử dụng tài khoản đặc quyền</p>	<p>Chính sách dành cho người dùng nội bộ BTC</p> <p>Áp dụng vào thực tế tại BTC, những người quản trị hệ thống của BTC có thể đăng nhập vào hệ thống CyberArk bằng tài khoản domain (được cấp phát riêng cho hệ thống PIM) của mình (thông qua giao thức xác thực LDAP).</p>	<p>Access</p> <ul style="list-style-type: none"> • Use accounts • List accounts <p>Workflow</p> <ul style="list-style-type: none"> • Authorize account requests • Access Safe without Confirmation <p>Safe Management</p> <ul style="list-style-type: none"> • Manage Safe • Manage Safe Members <p>Account Management</p> <ul style="list-style-type: none"> • Add accounts • Update account content • Update account properties • Initiate CPM account management operations • Rename accounts • Delete accounts • Unlock accounts <p>Monitor</p> <ul style="list-style-type: none"> • View Audit log • View Safe Members 	
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			<div><div>Safe Details: May Quan Tri</div><div><div>Last sign in: 4/9/2024 Administrator</div><div><div>Back</div><div>Cost</div><div>Delete Safe</div><div>Refresh</div></div><div><div>Members</div><div><div>Add Member</div><table><tr><th>User Name</th><th>Use</th><th>Items</th><th>Last</th><th>Add</th><th>Update</th><th>CPM</th><th>Items</th><th>Delete</th><th>Unblock</th><th>More</th></tr><tr><td>Administrator</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-01</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-02</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-03</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-04</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-05</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-06</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-07</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-08</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-09</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-10</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-11</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-12</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-13</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table></div><div>Hide predefined users and groups</div></div></div></div>	User Name	Use	Items	Last	Add	Update	CPM	Items	Delete	Unblock	More	Administrator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-03	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-04	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-05	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-06	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-07	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-08	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-09	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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adm-hdmi-12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																																																																																																																																																										
adm-hdmi-13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																																																																																																																																																										
	<div><div>Chính sách dành cho người dùng bên ngoài BTC</div><div>Đối với các người dùng không thuộc BTC (nhân sự hỗ trợ, đối tác, contractors...), những người này sẽ đăng nhập vào hệ thống CyberArk bằng tài khoản domain (được cấp phát riêng cho hệ thống PIM) của mình (thông qua giao thức xác thực LDAP).</div></div>	<div><div>Access</div><ul style="list-style-type: none">Use accountsList accounts<div>Monitor</div><ul style="list-style-type: none">View Safe Members</div> <div><div>Safe Details: UD01</div><div><div>Last sign in: 4/9/2024 Administrator</div><div><div>Back</div><div>Cost</div><div>Delete Safe</div><div>Refresh</div></div><div><div>Members</div><div><div>Add Member</div><table><tr><th>User Name</th><th>Use</th><th>Items</th><th>Last</th><th>Add</th><th>Update</th><th>CPM</th><th>Items</th><th>Delete</th><th>Unblock</th><th>More</th></tr><tr><td>adm-hdmi-14</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-15</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-16</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-17</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-18</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>adm-hdmi-19</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr></table></div><div>Hide predefined users and groups</div></div></div></div>	User Name	Use	Items	Last	Add	Update	CPM	Items	Delete	Unblock	More	adm-hdmi-14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	adm-hdmi-19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																																																																																					
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adm-hdmi-19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																																																																																																																																																																										

2.3 ĐÁNH GIÁ CÁC VẤN ĐỀ KHÁC

STT	Nội dung kiểm tra	Tiêu chí đánh giá	Kết quả	Khuyến nghị
1. Kiểm tra thông tin các lỗi ghi nhận trong quá trình vận hành				
1.1	Các lỗi ghi nhận trong quá trình vận hành	<div><ul style="list-style-type: none">Lỗi không change được mật khẩu trên các máy user local<div><div><div>CPM</div><div>Activities</div><div>Recordings</div><div>Versions</div><div>Windows Service</div></div><div><div>Automatic management for this account was disabled by the CPM.</div><div>Resume</div></div><div><div>Error in changepass to user 10.192.2.201\PTM-user02 on domain 10.192.2.201(\\10.192.2.201).(winRc=5)</div><div>Access is denied. More details</div></div><div><div>Logon Account:</div><div>Clear</div><div>Associate</div><div>Create New</div><div>Clear</div><div>Associate</div><div>Create New</div><div>Modify</div><div>Create New</div></div><div><div>CPM Disabled</div><div>Reason</div><div>The Central Policy Manager failed to change the password. An unrecoverable error was detected</div><div>1/25/2024 10:55:26 AM</div><div>Error in changepass to user 10.192.2.201\PTM-user02 on domain 10.192.2.201(\\10.192.2.201).(winRc=5) Access is denied. The CPM is trying to change this password because its status matches the following search criteria: Failure.</div><div>1/21/2024 10:21:06 AM</div><div>Error in changepass to user 10.192.2.201\PTM-user02 on domain 10.192.2.201(\\10.192.2.201).(winRc=5) Access is denied. The CPM is trying to change this password because its status matches the following search criteria: ExpirationPeriod.</div></div></div></div> <ul style="list-style-type: none">Nhiều account bị báo đỏ	<div><ul style="list-style-type: none">Đã mở case với hãng và fix lỗiRà soát và xóa bỏ 1 số account không còn dùng nữa</div>	

- Đã mở case với hãng và fix lỗi
- Rà soát và xóa bỏ 1 số account không còn dùng nữa

Account view

Filter

192.2.

Ad hoc connection

Add account

68 results for: 192.2.,

Additional details & actions in classic interface

☆	Status	Username	Address	Platform ID	Safe ↑	Access request	
☆	⚠	pim-user04	10.192.2.246	MOF_WindowsServerL...	May Quan Tri	-	Connect
☆	⚠	pim-user05	10.192.2.246	MOF_WindowsServerL...	May Quan Tri	-	Connect
☆	⚠	PIM-user01	10.192.2.250	MOF_WindowsServerL...	May Quan Tri	-	Connect
☆	⚠	Administrator	10.192.2.211	MOF_WindowsServerL...	May Quan tri Nhom N...	-	Connect
☆	⚠	PIM-mayquantri-thang	10.192.2.215	MOF_WindowsServerL...	May Quan tri Nhom N...	-	Connect
☆	⚠	pim-local-2	10.192.2.234	MOF_WindowsServerL...	May Quan tri Nhom N...	-	Connect
☆	⚠	PIM-user01	10.192.2.201	MOF_WindowsServerL...	MaychuCSDL-Windows	-	Connect
☆	⚠	PIM-user02	10.192.2.201	MOF_WindowsServerL...	MaychuCSDL-Windows	-	Connect
☆	⚠	PIM-user03	10.192.2.201	MOF_WindowsServerL...	MaychuCSDL-Windows	-	Connect
☆	⚠	PIM-user04	10.192.2.201	MOF_WindowsServerL...	MaychuCSDL-Windows	-	Connect
☆	⚠	PIM-user05	10.192.2.201	MOF_WindowsServerL...	MaychuCSDL-Windows	-	Connect
☆	⚠	pim-228-02	10.192.2.228	MOF_WindowsServerL...	MaychuCSDL-Windows	-	Connect
☆	⚠	PIM-QTR CSDL 2-01	10.192.2.228	MOF_WindowsServerL...	MaychuCSDL-Windows	-	Connect

3 KẾT LUẬN VÀ ĐỀ XUẤT

Hệ thống quản lý tài khoản đặc quyền PIM – CyberArk tại Cục tin học và Thống kê tài chính hiện tại đã được rà soát với các kết quả chi tiết như trên, qua đó HPT đưa ra kết luận và một số đề xuất sau:

Hệ thống hoạt động bình thường sau khi nâng cấp, các thông số cài đặt, cấu hình chính xác.

Các vấn đề cần khắc phục:

- Trên máy chủ Vault: xóa bớt các dữ liệu file log trên phân vùng ổ E
- Trên máy chủ DR:
 - Xóa bớt các dữ liệu file log trên phân vùng ổ E để giảm tải dung lượng cho phân vùng ổ (Không ảnh hưởng đến hoạt động của hệ thống)
- Trên máy chủ Backup PIM-BackupSrv.vpbtc.mof.vn: xóa bớt các dữ liệu file log trên phân vùng ổ E
- Bổ sung License trên máy chủ Vault để đáp ứng nhu cầu mở rộng hệ thống

<div>ĐẠI DIỆN</div> <div>KHÁCH HÀNG</div>	<div>ĐẠI DIỆN</div> <div>CÔNG TY CỔ PHẦN DỊCH VỤ CÔNG NGHỆ TIN HỌC HPT</div>