QSAN Official Document

Commvault Setup Guide

Application Note

February 2026

ANNOUNCEMENT

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Announcement
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PREFACE

Technical Support

Do you have any questions or need help trouble-shooting a problem? Please contact QSAN Support, we will reply to you as soon as possible.

- Via the Web: https://www.qsan.com/technical_support
- Via Telephone: +886-2-77206355
- (Service hours: 09:30 - 18:00, Monday - Friday, UTC+8)
- Via Skype Chat, Skype ID: qsan.support
- (Service hours: 09:30 - 02:00, Monday - Friday, UTC+8, Summer time: 09:30 - 01:00)
- Via Email: support@qsan.com

Information, Tip, and Caution

This document uses the following symbols to draw attention to important safety and operational information.



INFORMATION

INFORMATION provides useful knowledge, definition, or terminology for reference.



TIP

TIP provides helpful suggestions for performing tasks more effectively.

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CAUTION

CAUTION indicates that failure to take a specified action could result in damage to the system.

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1. COMMVAULT INTRODUCTION

1.1. What is commvault Software

Commvault is an advanced data protection and data management software designed to offer comprehensive solutions for data backup and recovery, disaster recovery, cloud data management, data governance, and compliance. The software supports various IT environments, including on-premises data centers and multi-cloud environments, ensuring data security, availability, and compliance. Commvault features robust automation capabilities that simplify data management processes, reduce the risk of data loss, and enable quick recovery of operations in the event of a disaster. Its virtualization and container protection capabilities allow businesses to efficiently manage data within virtual machines and containerized environments. Commvault is widely used across industries such as finance, healthcare, manufacturing, and the public sector, helping these industries improve IT operational efficiency and reduce costs.

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2. CONFIGURATION SETTINGS

In this chapter, we will take an in-depth look at backup solutions integrating commvault software with QSAN storage.

2.1. Recommended Storage

1. Use XCalc. tool on the QSAN website to obtain recommended storages.
2. Enter the **Total Usable Capacity Required** and the desired **RAID Level**.

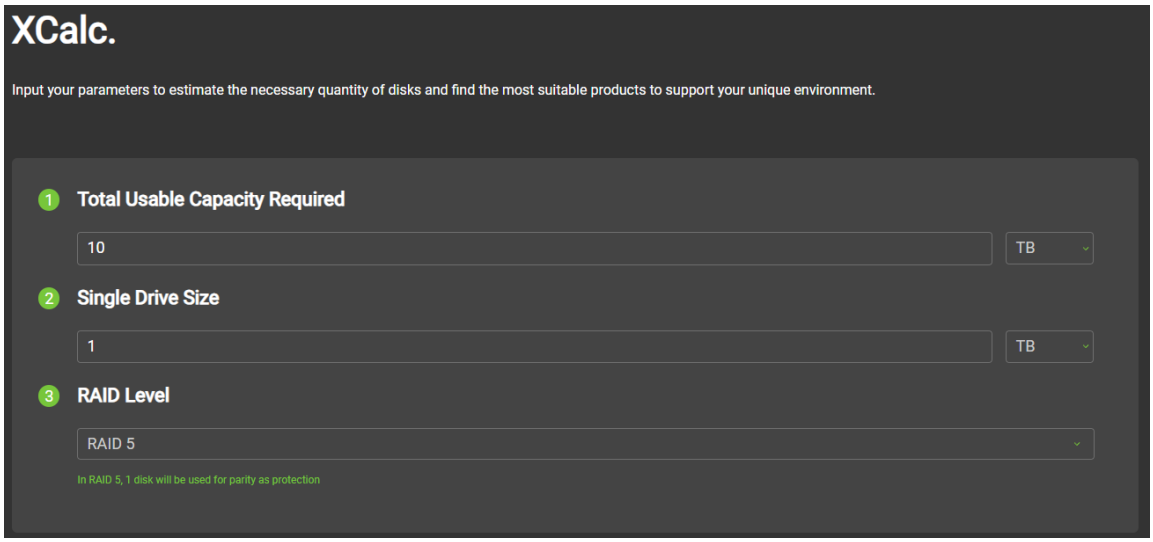


Figure 2-1 Use XCalc. Tool to Obtain Recommended Storages

3. Select the **Virtualization** option.

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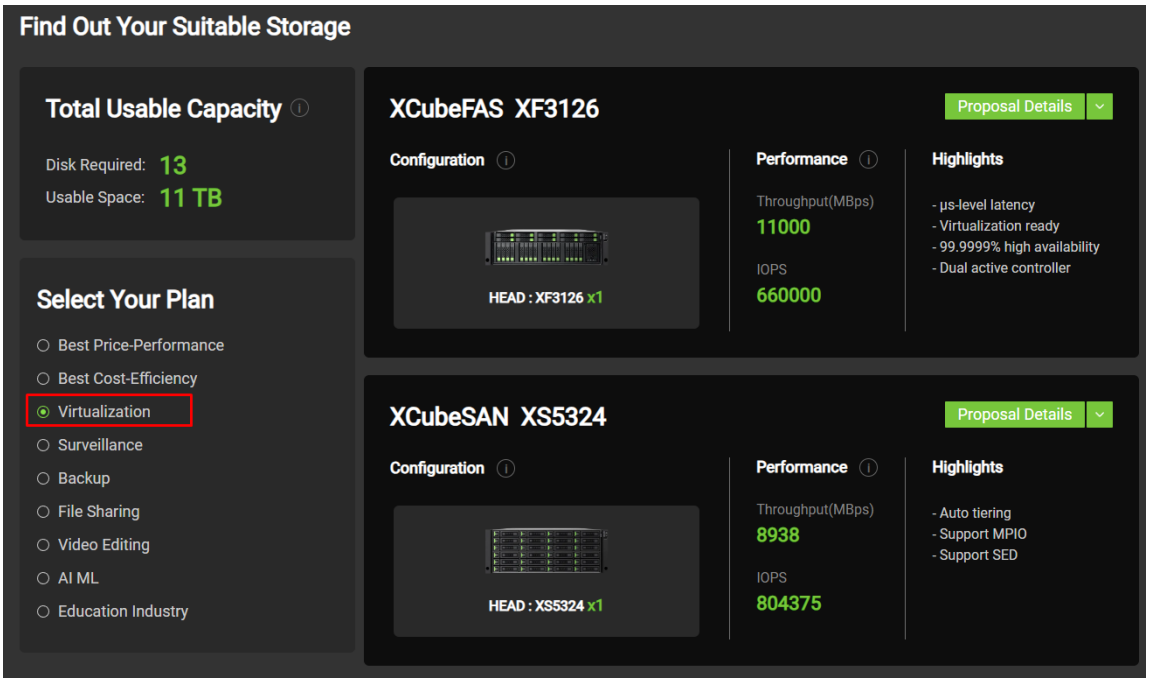


Figure 2-2 Select Virtualization Option

4. Select the model and click the **Proposal Details** button to view more.

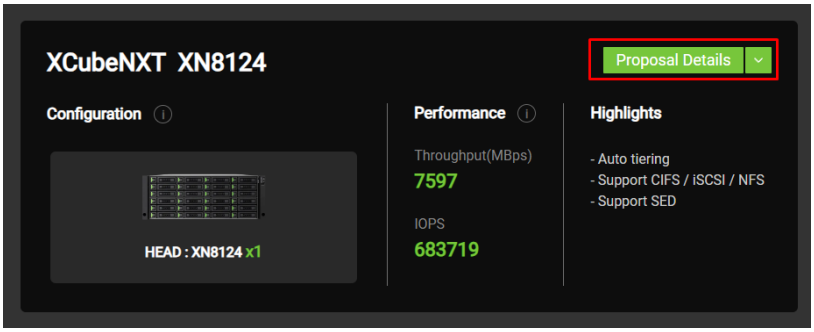


Figure 2-3 Click Proposal Details Button to View More

5. If necessary, click the **Export the Result** button to export the report.

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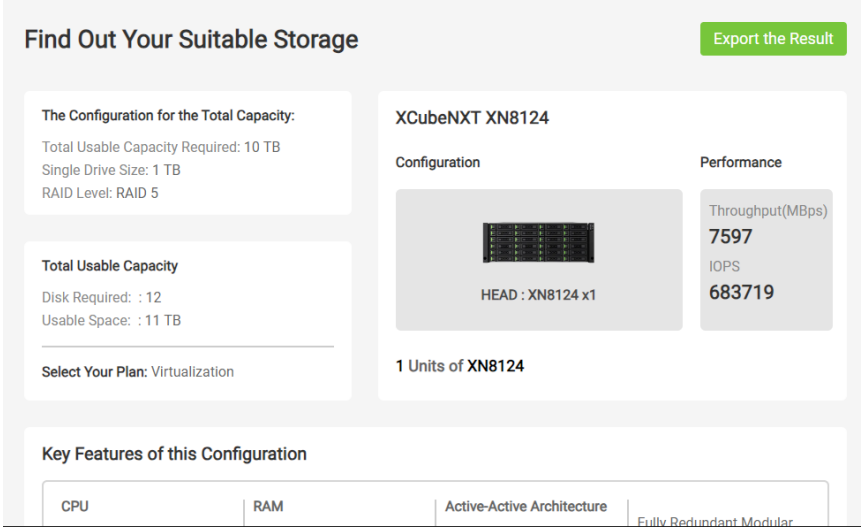


Figure 2-4 Click Export Button to Export Result

2.2. Environment and Topology

Demonstration Environment

- Server

  CPU: 4 cores
  Memory: 4 GB
  Disk: 100 GB
  IP: 192.168.195.23

- Storage
  - Model: XCubeNXT 8124D
    Memory: 16 GB per controller
    Disk: 12 x 10 TB Nearline SAS HDD
  - Pool: RAID 6
    Volume: 2 TB file volume
    Protocol: CIFS
    IP: 192.168.195.1

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Demonstration Topology

The connection is very simple. Here is a brief overview: any topology will work as long as the logical connection is pingable.

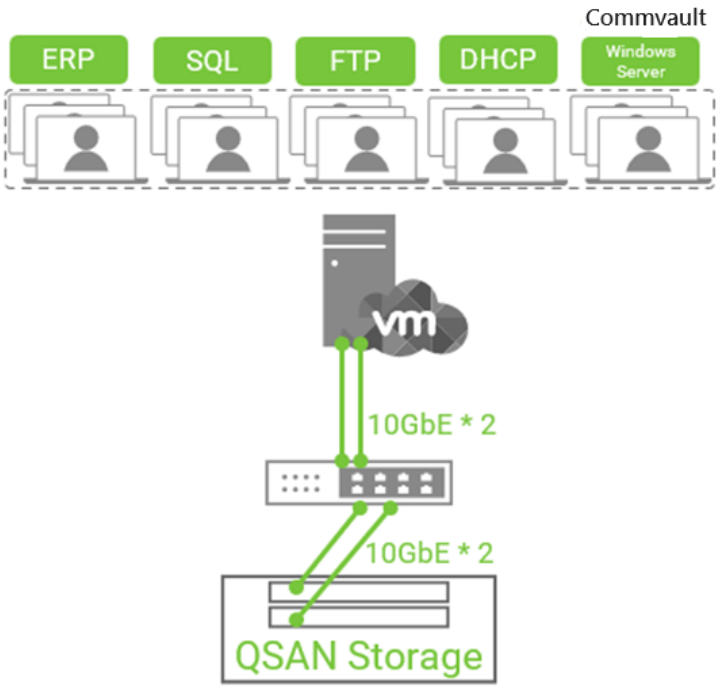


Figure 2-5 Demonstration Topology

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2.3. Configure Backup Steps

In this use case, we will explore how to perform a backup using Commvault and store the backup data on an XCubeNXT storage solution. This configuration ensures the security and accessibility of critical data, providing a reliable solution for data protection and disaster recovery.

1. After create file volume, share and CIFS share host in XCubeNXT. Open Commvault application.
2. Go to storage and disk page, and then click the “Add” icon to add the backup location. And enter backup location name.

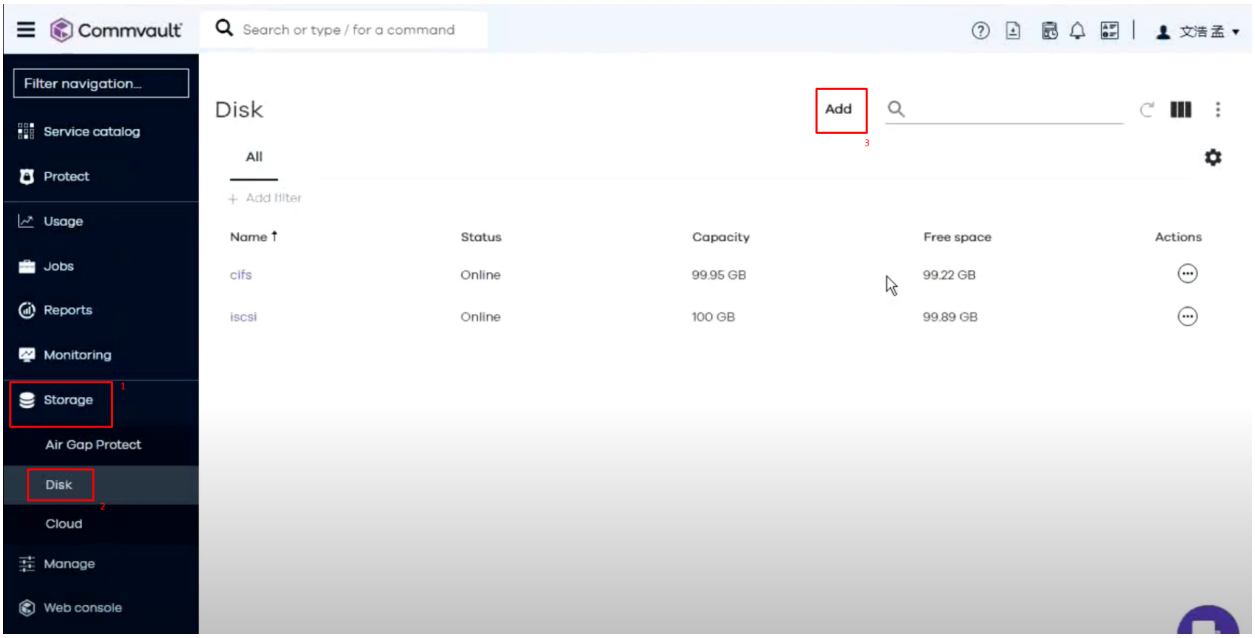


Figure 2-6 Add an disk storage step1

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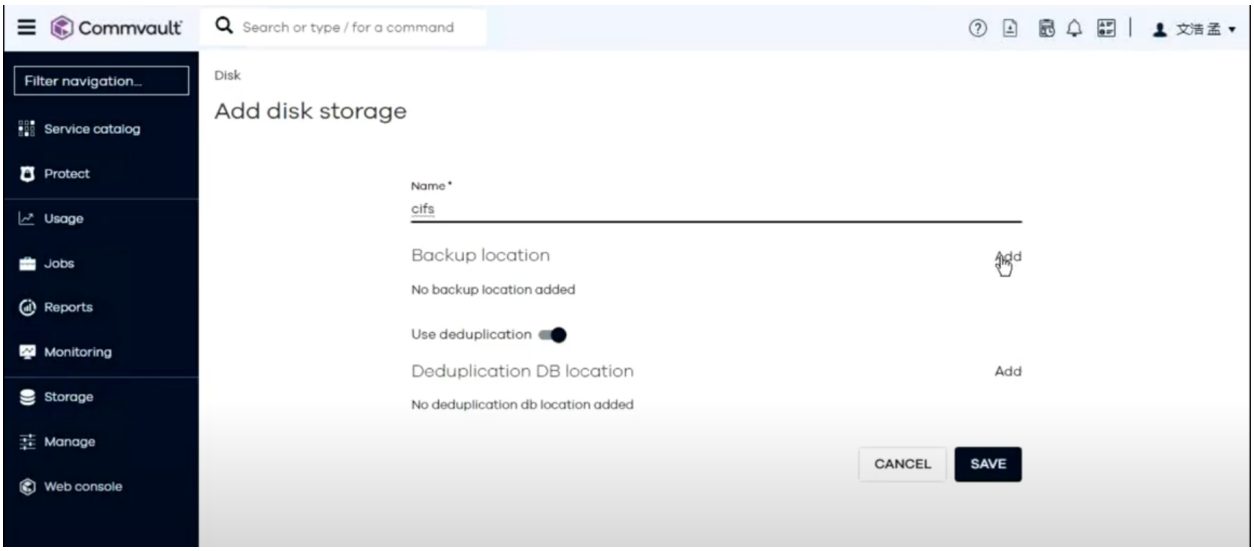


Figure 2-7 Add an disk storage Step 2

3. Select MediaAgent and select type as “network,” then enter \\NAS_IP\share in backup location, and enter username and password.

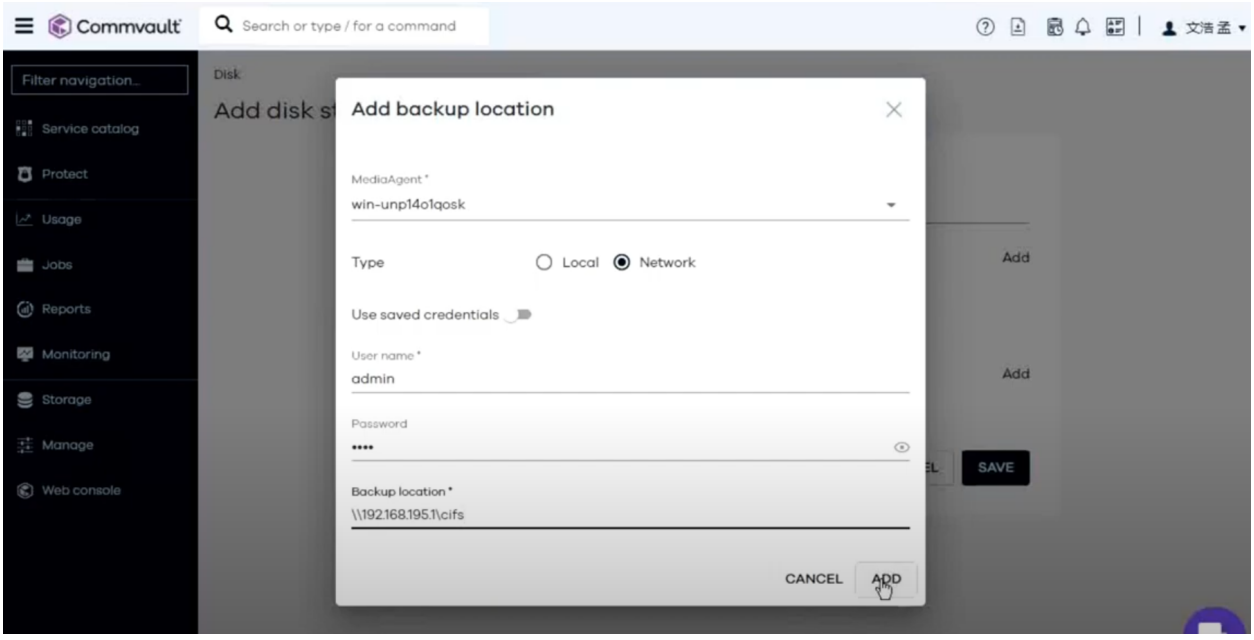


Figure 2-8 Add an disk storage Step 3

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4. Click add, then you can verify that the backup location is correct. You can also choose to enable the deduplication DB location. And then click “Save,” you can check cifs capacity in disk page.

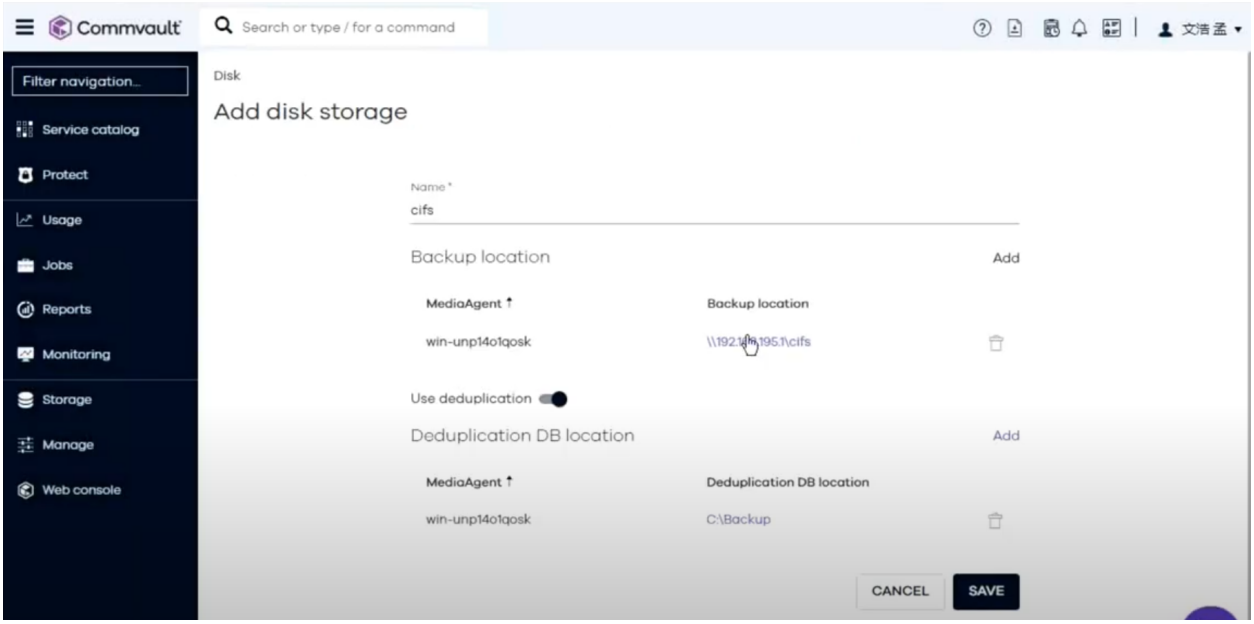


Figure 2-9 Add an disk storage Step 4

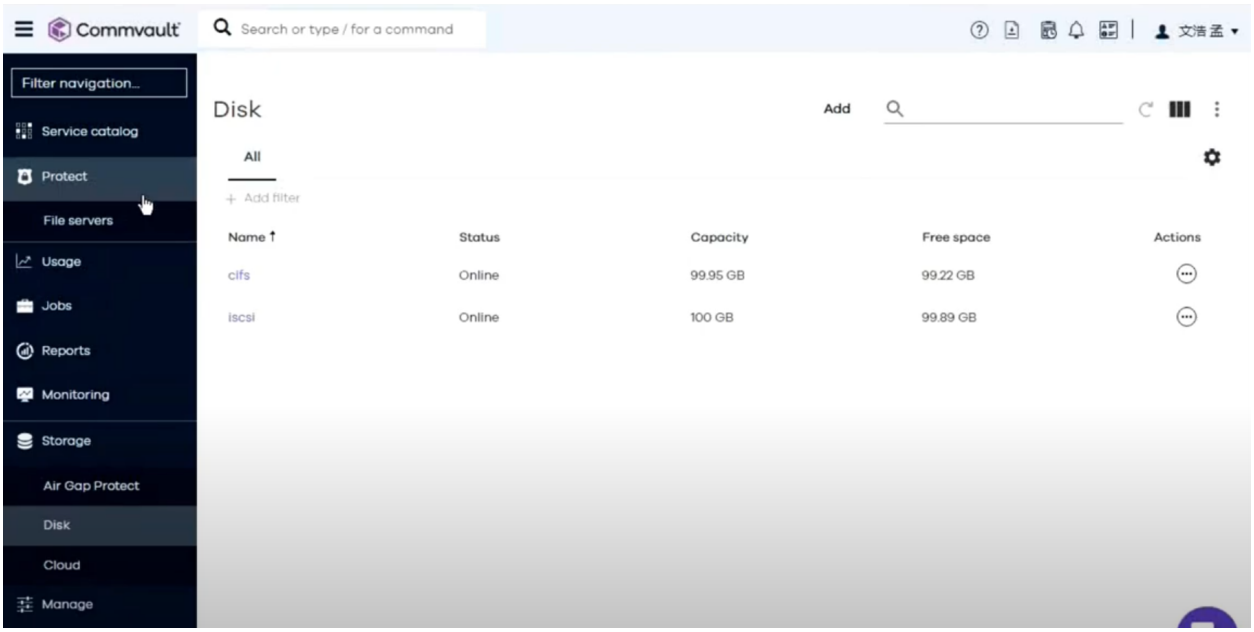


Figure 2-10 Add an disk storage Step 5

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5. Go to file servers page, and click “Add server,” then choose file server running in a virtual or physical system.

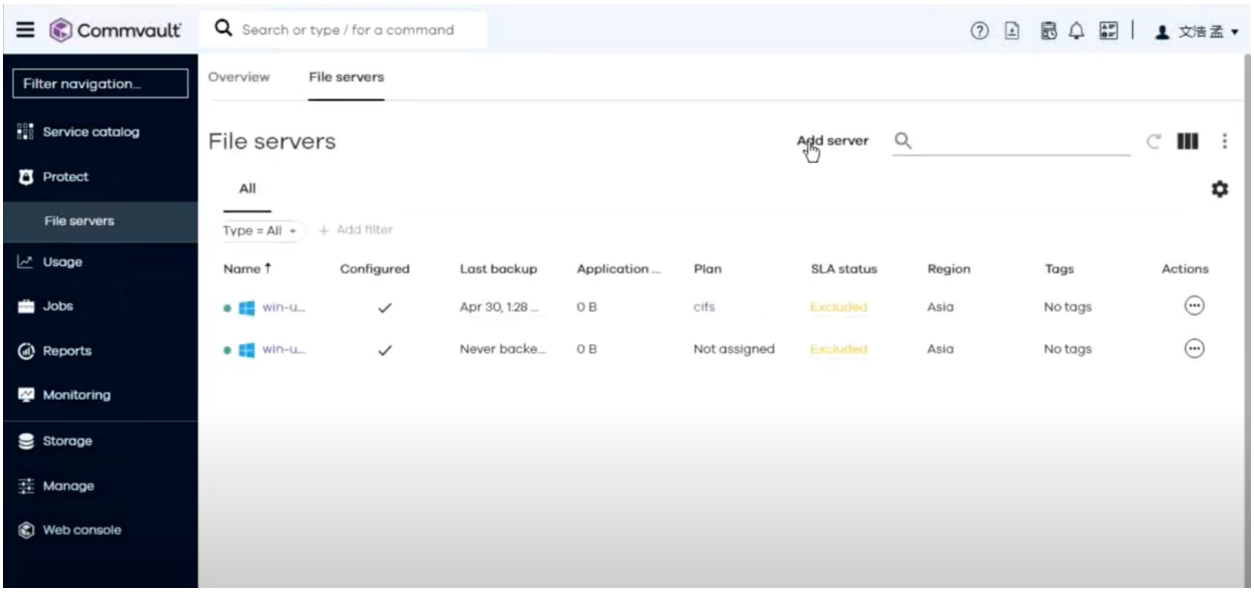


Figure 2-11 Add a file server step 1

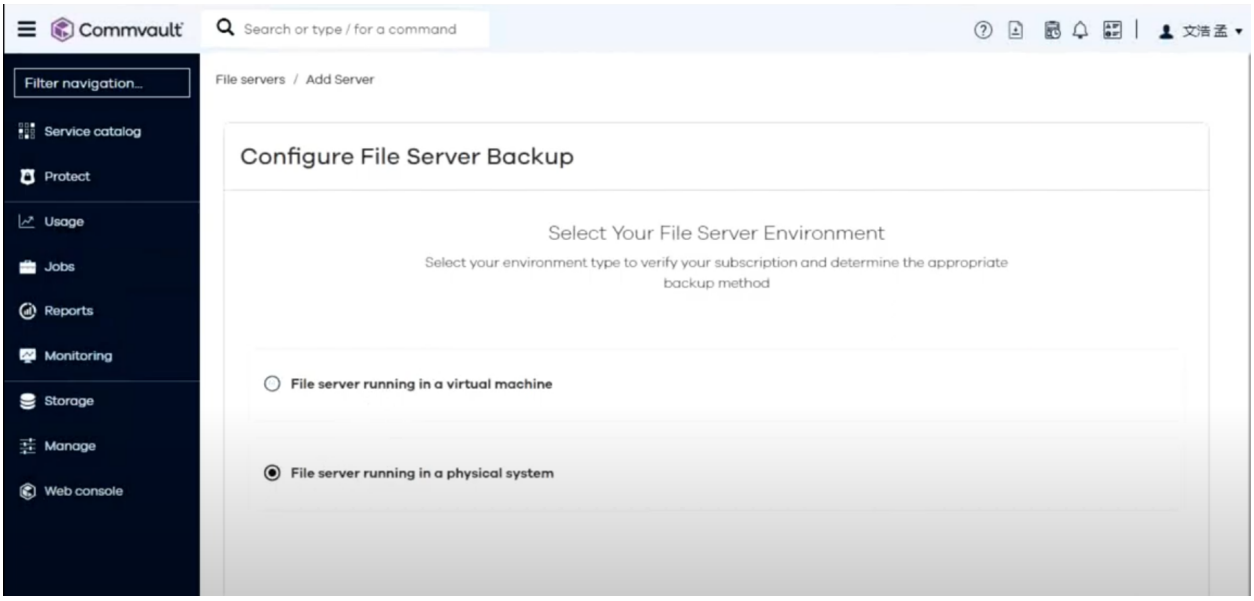


Figure 2-12 Add a file server step 2

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6. Select backup via backup gateway (for on-premise servers).

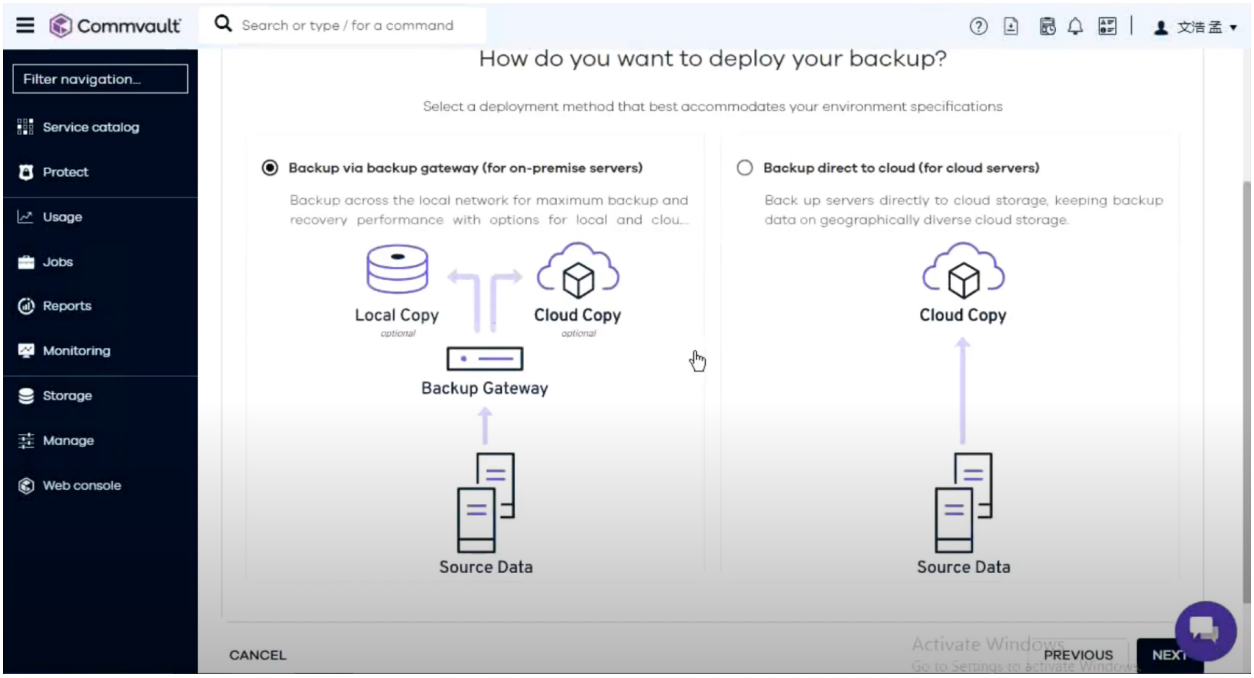


Figure 2-13 Add a file server step 3

7. Next, select backup gateway, and then select backup location “cifs.”

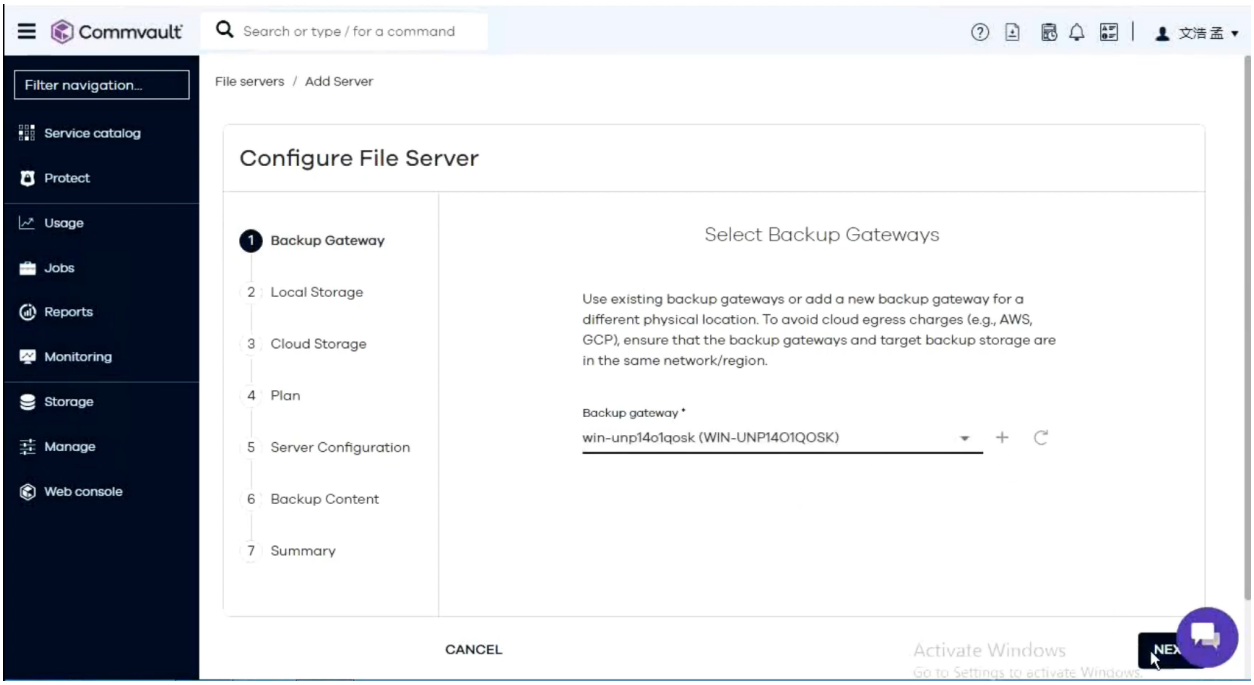


Figure 2-14 Configure file server step 1

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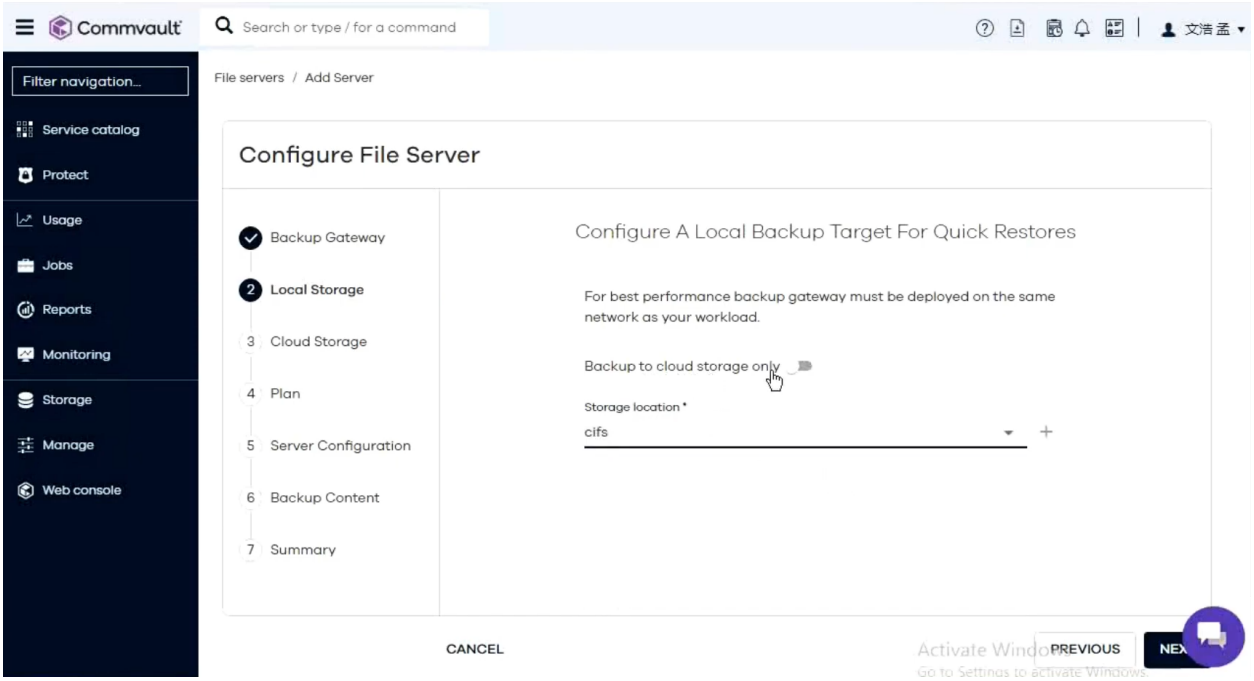


Figure 2-15 Configure file server step 2

8. Next enable “only use on-premises storage” in cloud storage page, and next setup the backup plan.

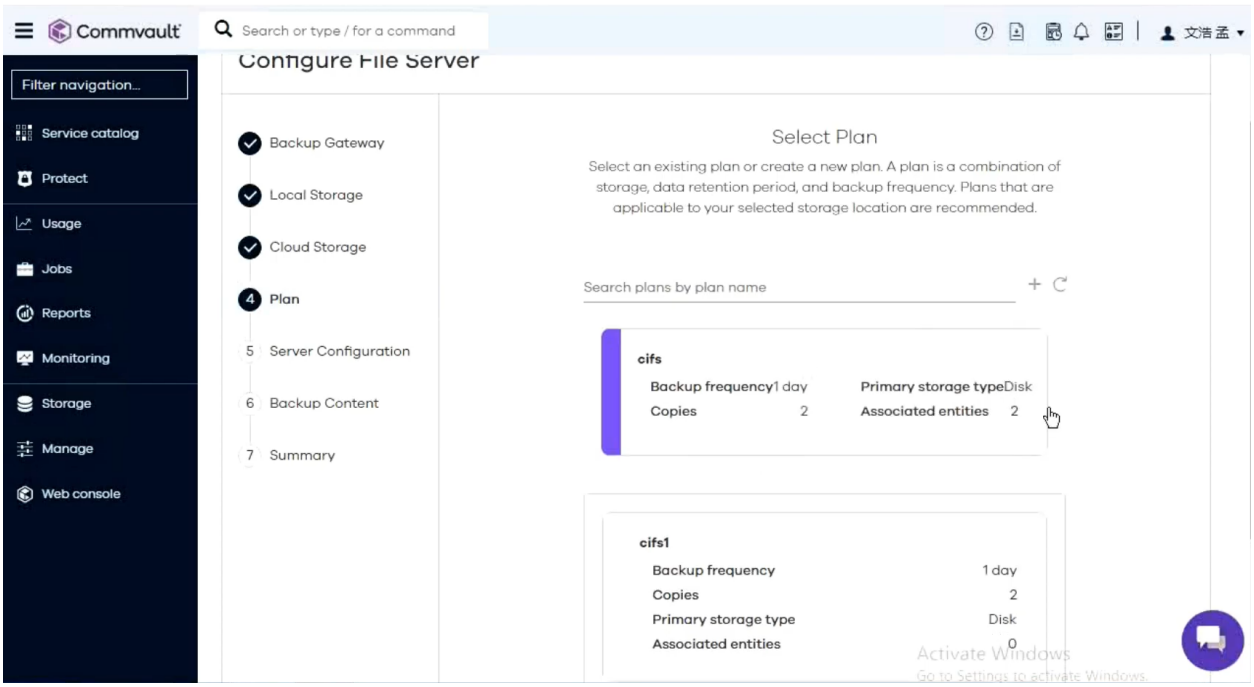


Figure 2-9 Configure file server step 3

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9. Next select interactive installation, select windows as OS type, and select the name newly installed server to be protected.

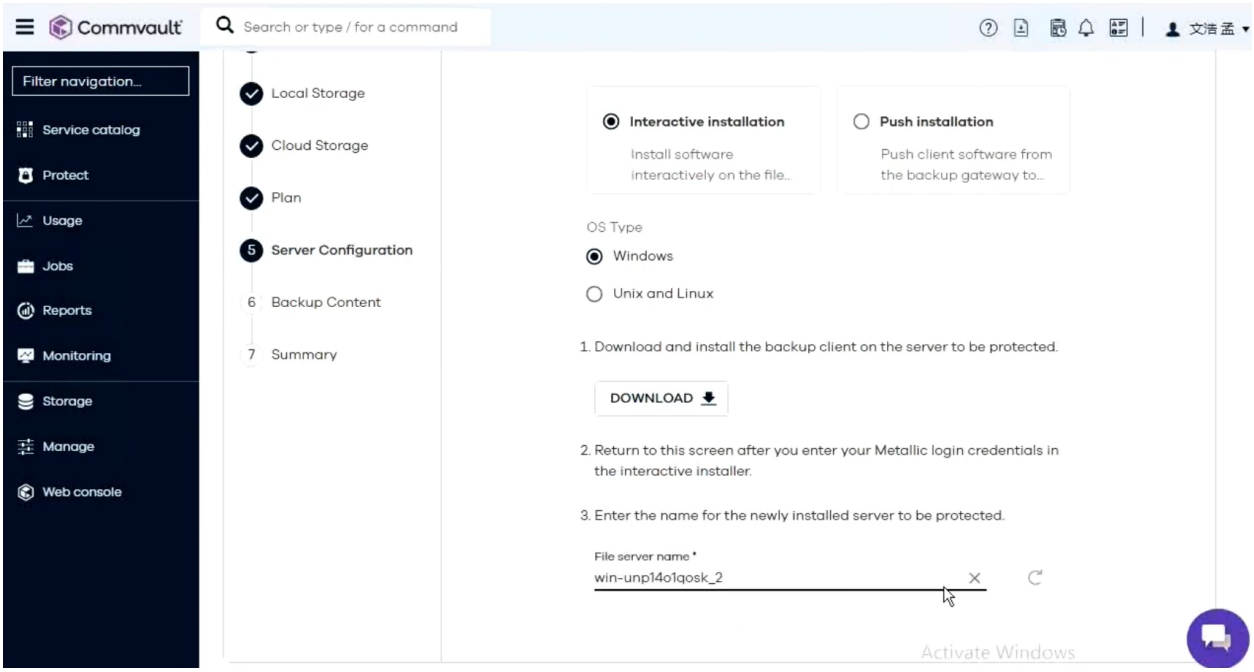


Figure 2-10 Configure file server step 4

10. Next, select backup content and go to summary page, click finish.

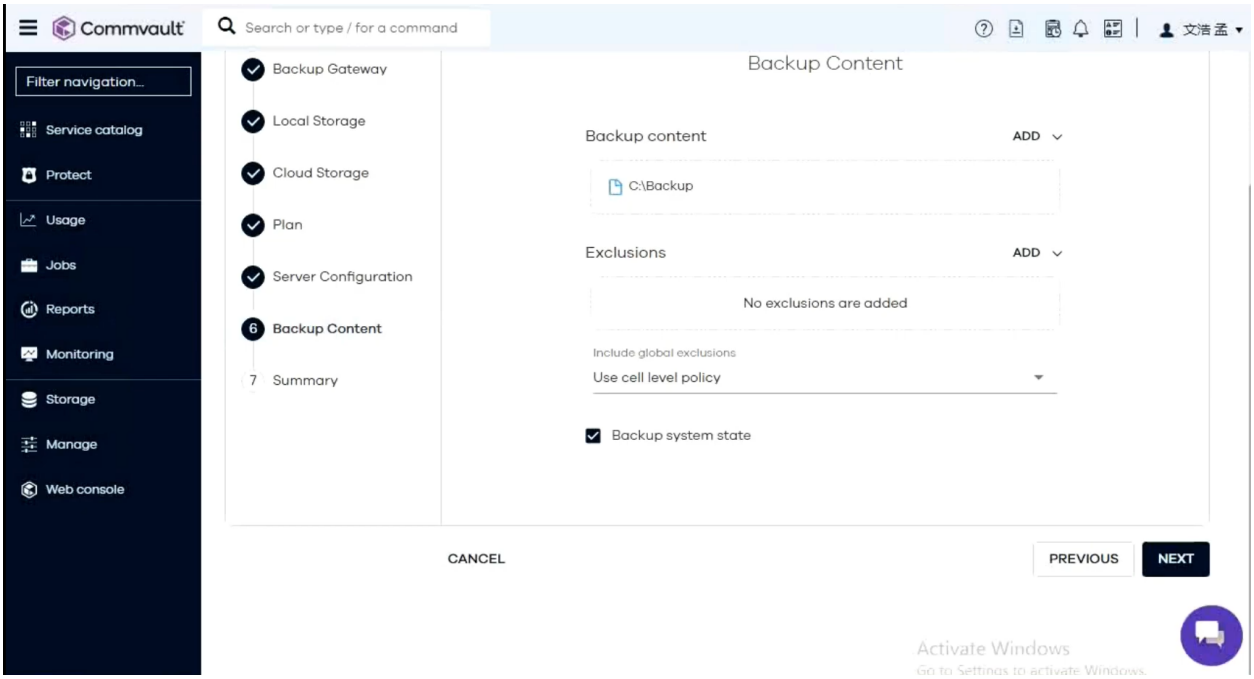


Figure 2-19 Configure file server step 5

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11. Now you can see the file server in the page. Click action and select backup, choose full backup and submit.

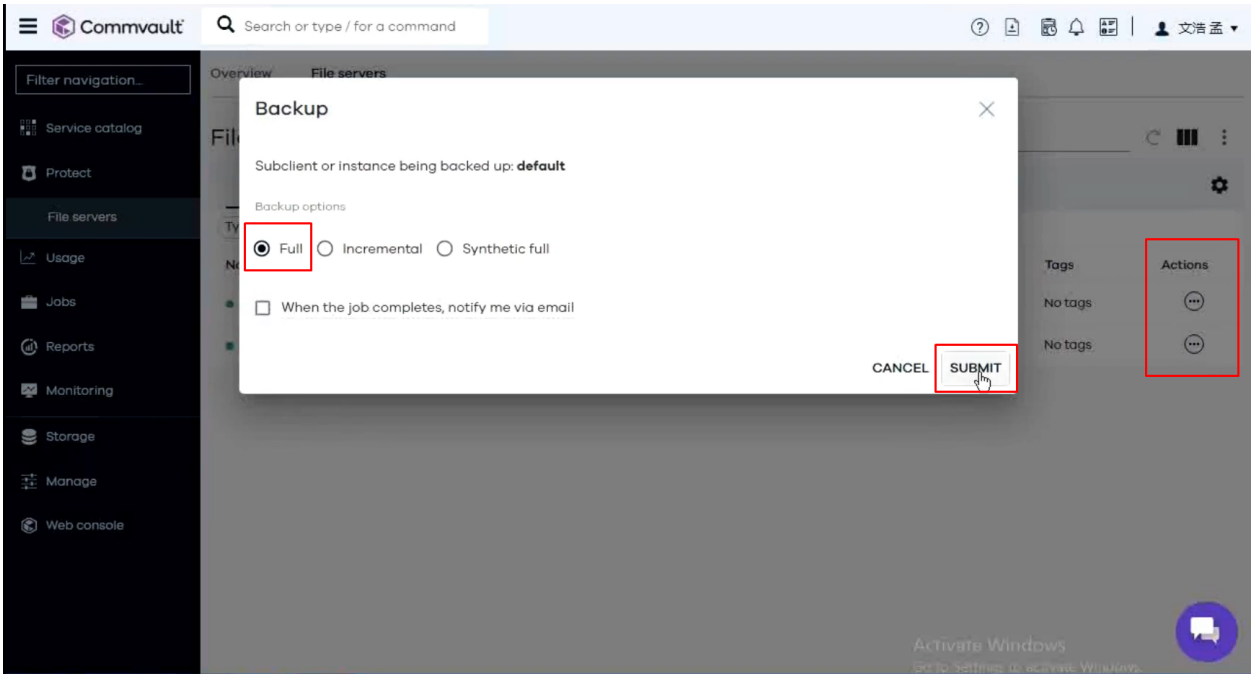


Figure 2-20 Run backup job

12. You can check the backup job status in “Jobs” page.

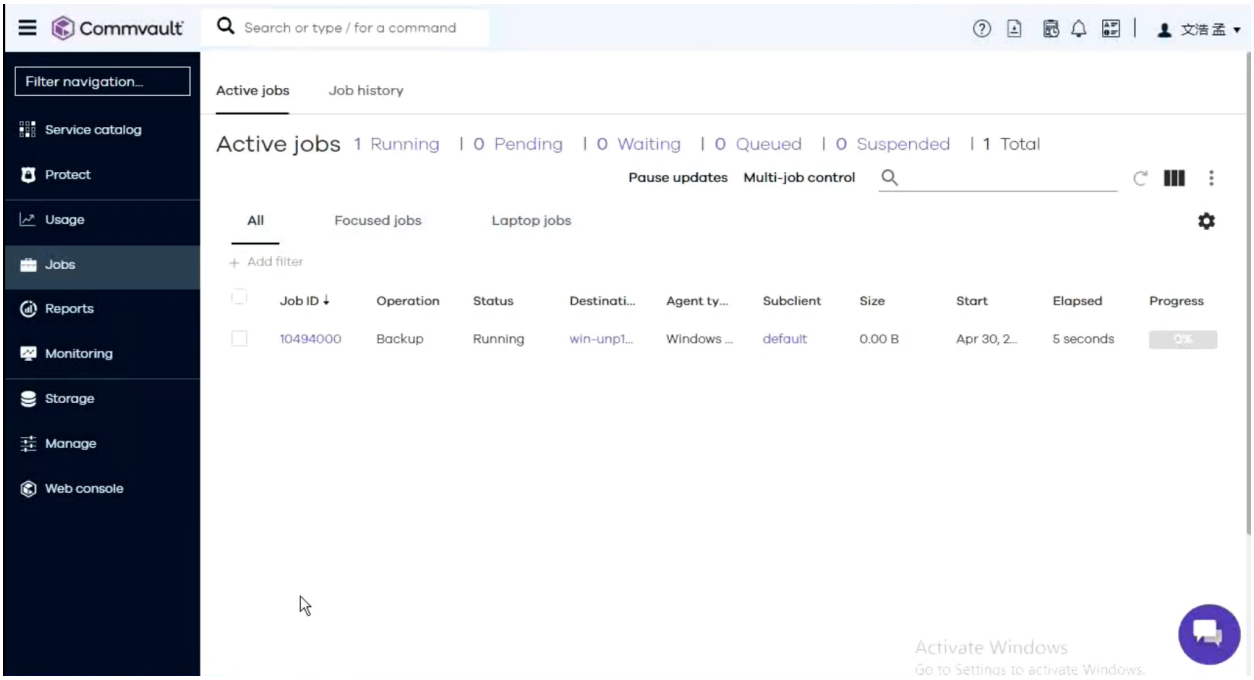


Figure 2-21 Check backup job

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3. CONCLUSION

In this application note, we explored the integrated advantages of Commvault and the QSAN XCubeNXT storage solution. Commvault's data protection and management capabilities ensure data security, availability, and compliance, while QSAN XCubeNXT offers a high-performance and reliable storage platform, enhancing the overall solution's effectiveness. These storage devices integrate seamlessly with Commvault, ensuring rapid data transfer and storage, and providing efficient backup and recovery functions.

High availability configurations ensure continuous system operation, and deploying multiple storage devices enhances data transfer and storage efficiency. Utilizing QSAN XCubeNXT storage solutions, enterprises can effectively manage and protect their data, improving IT operational efficiency. Overall, the combination of Commvault and QSAN XCubeNXT not only meets the data protection needs of modern enterprises but also improves IT operational efficiency, making it an ideal choice for achieving data protection, compliance, and business continuity.

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4. APPENDIX

4.1. Apply To

- QSM firmware 4.0.3 and later

4.2. Reference

Product Page

- XCubeNXT 8100 Series

Document

- QSM 4 Software Manual

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