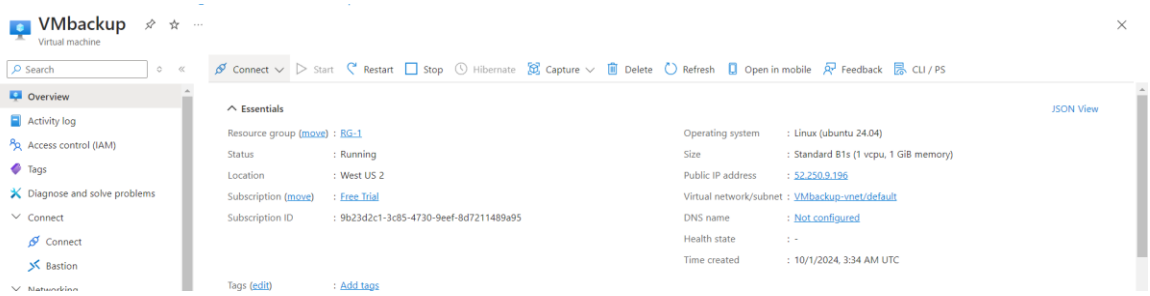
Task 1: Create a Linux VM and Install Apache 2

1. **Log in to the Azure Portal:**
    - Go to Azure Portal.
2. **Create a Virtual Machine:**
    - Click on "Create a resource" > "Compute" > "Virtual Machine."
    - Fill in the necessary details:
        - **Subscription:** Choose your subscription.
        - **Resource Group:** Select an existing resource group or create a new one.
        - **Virtual Machine Name:** Provide a name for the VM.
        - **Region:** Select the desired region.
        - **Image:** Choose a Linux distribution (e.g., Ubuntu 22.04 LTS).
        - **Size:** Select the appropriate VM size based on your needs.
        - **Administrator Account:** Provide a username and SSH public key or password for access.
    - Configure any additional settings as needed, then click "Review + Create" and then "Create."



3. **Connect to the VM:**
    - Once the VM is deployed, go to the VM's overview page and click "Connect."
    - Use SSH to connect (for Linux) with the following command:

      ssh <username>@<public-ip-address>

```
 * Support:        https://ubuntu.com/pro

 System information as of Tue Oct  1 03:38:58 UTC 2024

  System load:  0.1               Processes:             110
  Usage of /:   5.0% of 28.02GB   Users logged in:       0
  Memory usage: 30%               IPv4 address for eth0: 10.0.0.4
  Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status



The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

azureuser@VMbackup:~$ sudo su
root@VMbackup:/home/azureuser#
```

4. **Install Apache 2:**
    - Update the package index:

      sudo apt update
    - Install Apache 2:

      sudo apt install apache2 -y
    - Enable and start the Apache service:

      sudo systemctl enable apache2

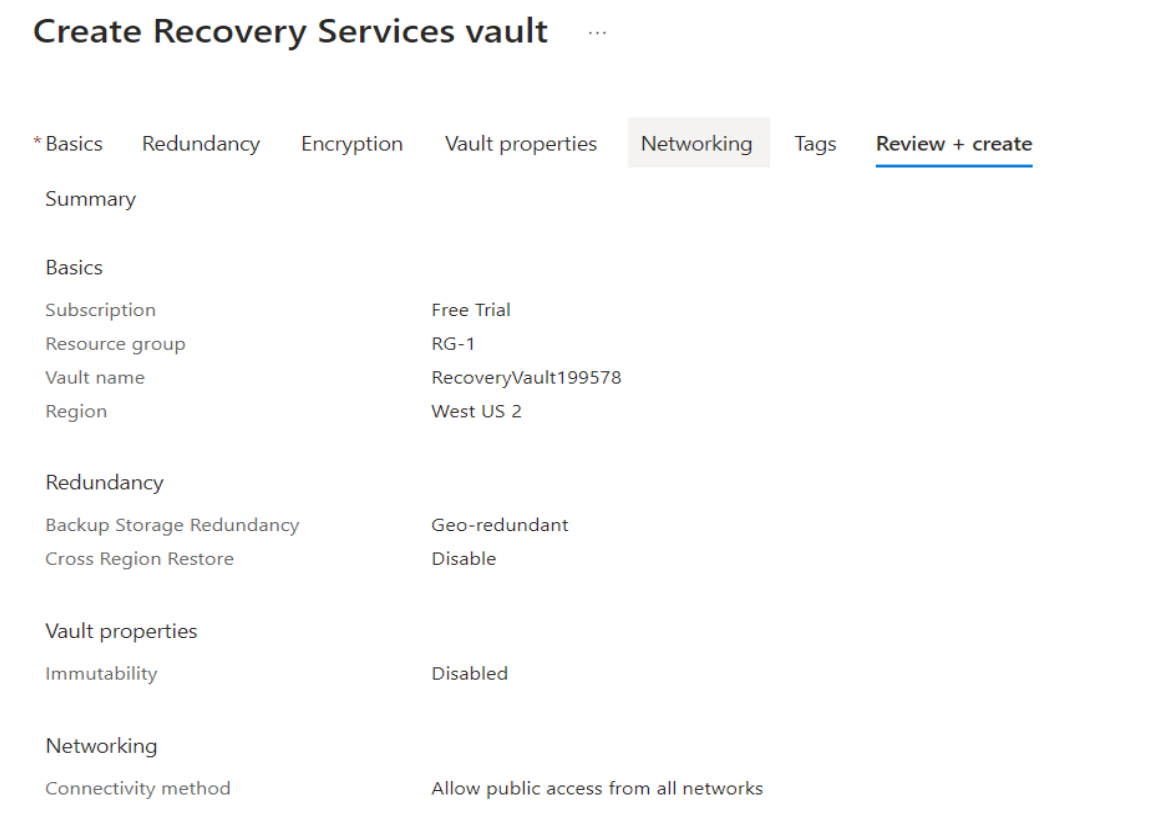
      sudo systemctl start apache2

```
root@VMbackup:/home/azureuser# sudo systemctl enable apache2
sudo systemctl start apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
root@VMbackup:/home/azureuser# systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
     Active: active (running) since Tue 2024-10-01 03:41:08 UTC; 1min 2s ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2702 (apache2)
      Tasks: 55 (limit: 1004)
     Memory: 5.4M (peak: 5.7M)
        CPU: 46ms
     CGroup: /system.slice/apache2.service
             ├─2702 /usr/sbin/apache2 -k start
             ├─2705 /usr/sbin/apache2 -k start
             └─2706 /usr/sbin/apache2 -k start

Oct 01 03:41:07 VMbackup systemd[1]: Starting apache2.service - The Apache HTTP Server...
Oct 01 03:41:08 VMbackup systemd[1]: Started apache2.service - The Apache HTTP Server.
root@VMbackup:/home/azureuser#
```

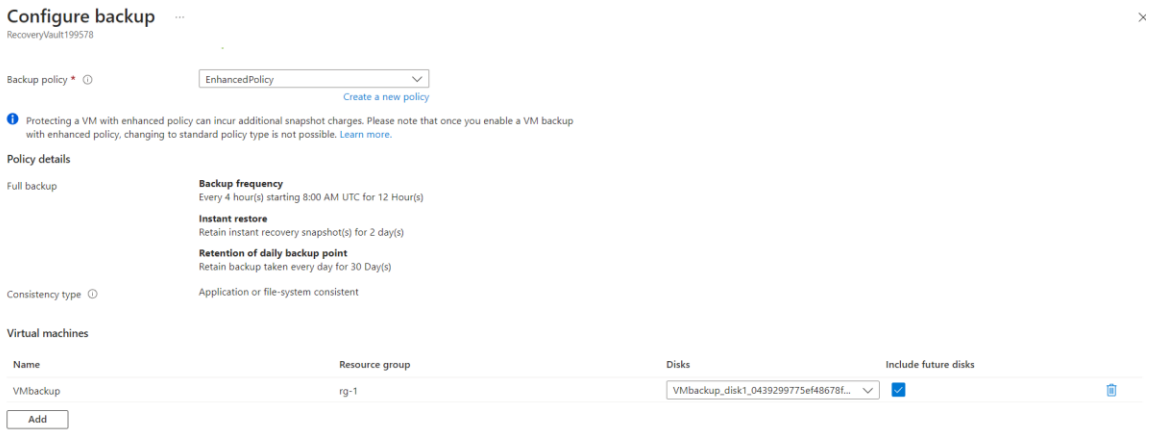
Task 2: Create Recovery Services Vault

1. **Create Recovery Services Vault:**
    - In the Azure Portal, click on "Create a resource."
    - Search for "Recovery Services vault" and select it.
    - Click "Create."
    - Fill in the details:
        - **Subscription:** Choose your subscription.
        - **Resource Group:** Select the same or a different resource group.
        - **Vault Name:** Provide a unique name.
        - **Region:** Choose the same region as your VM.
    - Click "Review + Create" and then "Create."

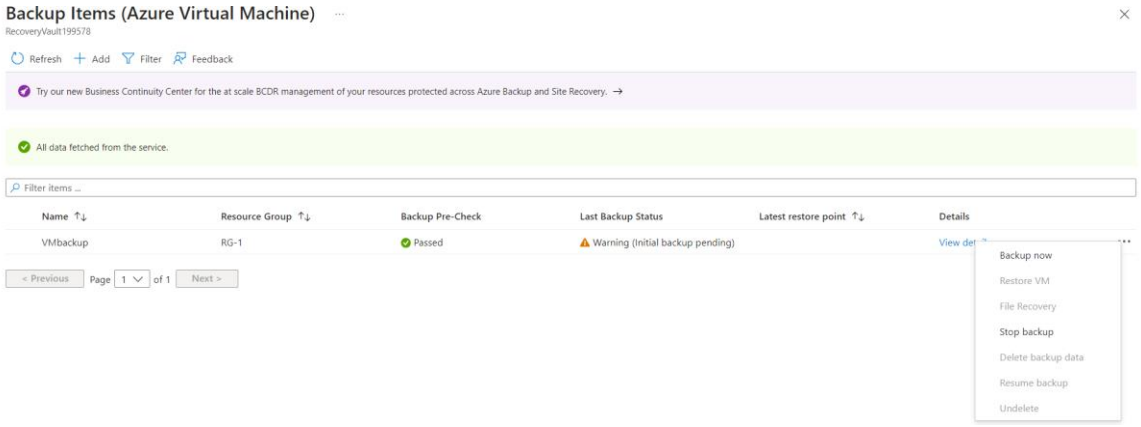


Task 3: Take Backup of the VM Deployed

1. **Configure Backup for the VM:**
    - Go to the Recovery Services vault you just created.
    - In the vault, click on "Backup."
    - Choose the following settings:
        - **Where is your workload running?** Select "Azure."
        - **What do you want to back up?** Choose "Virtual machine."
    - Click "Backup" to create a backup policy.



2. **Enable Backup:**
    - In the Backup item configuration, select the virtual machine you want to back up.
    - Choose the backup policy you just created or select the default one.
    - Click "Enable Backup."
3. **Trigger a Backup:**
    - Go to the "Backup Items" under the Recovery Services vault.
    - Click on "Azure Virtual Machine" and select your VM.
    - Click on "Backup now" to initiate an immediate backup.


Backup Items (Azure Virtual Machine)
RecoveryVault199578
Refresh
Add
Filter
Feedback
Try our new Business Continuity Center for the at scale BCDR management of your resources protected across Azure Backup and Site Recovery.
All data fetched from the service.
Filter items ...
Name
Resource Group
Backup Pre-Check
Last Backup Status
Latest restore point
Details
VMbackup
RG-1
Passed
Warning (Initial backup pending)
Backup now
Restore VM
File Recovery
Stop backup
Delete backup data
Resume backup
Undelete
< Previous
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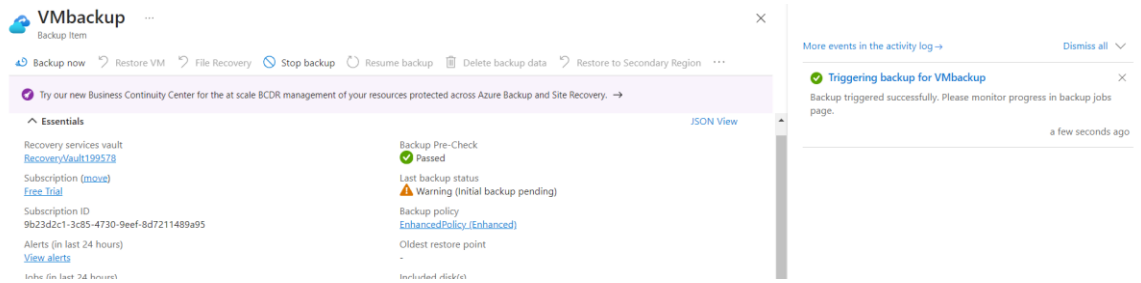
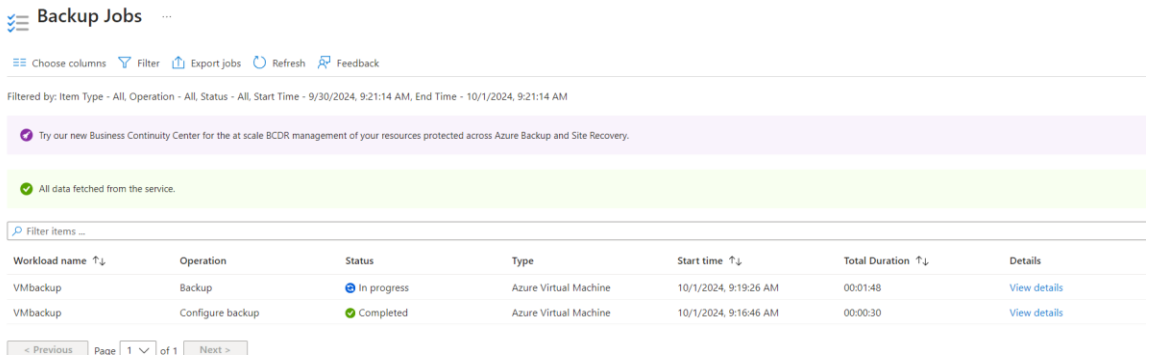
Next >


VMbackup
Backup Item
Backup now
Restore VM
File Recovery
Stop backup
Resume backup
Delete backup data
Restore to Secondary Region
Try our new Business Continuity Center for the at scale BCDR management of your resources protected across Azure Backup and Site Recovery.
Essentials
JSON View
Recovery services vault
RecoveryVault199578
Backup Pre-Check
Passed
Subscription (move)
Free Trial
Last backup status
Warning (Initial backup pending)
Subscription ID
9b23d2c1-3c85-4730-9eef-8d7211489a95
Backup policy
EnhancedPolicy (Enhanced)
Alerts (in last 24 hours)
View alerts
Oldest restore point
-
More events in the activity log →
Dismiss all
Triggering backup for VMbackup
Backup triggered successfully. Please monitor progress in backup jobs page.
a few seconds ago


Backup Jobs
Choose columns
Filter
Export jobs
Refresh
Feedback
Filtered by: Item Type - All, Operation - All, Status - All, Start Time - 9/30/2024, 9:21:14 AM, End Time - 10/1/2024, 9:21:14 AM
Try our new Business Continuity Center for the at scale BCDR management of your resources protected across Azure Backup and Site Recovery.
All data fetched from the service.
Filter items ...
Workload name
Operation
Status
Type
Start time
Total Duration
Details
VMbackup
Backup
In progress
Azure Virtual Machine
10/1/2024, 9:19:26 AM
00:01:48
View details
VMbackup
Configure backup
Completed
Azure Virtual Machine
10/1/2024, 9:16:46 AM
00:00:30
View details
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