**A. Schedule Daily VM Backup and Create Alert Rule**

**1. Backup with Recovery Services Vault:**

* Access the Azure portal and sign in to your Azure subscription.
* Search for "Backup Center" and click on it.
* Click "+ Backup" and select "Azure virtual machines" as the datasource.
* Choose your Recovery Services vault (create one if you don't have one).
* Click "Continue" and select the virtual machine you want to back up.
* Under "Backup policy," click "Create new" and define a policy with:
  + **Schedule:** Daily at 3:00 AM (or your preferred time).
  + **Retention:** Set the desired number of days to retain backups (e.g., 7 for weekly backups). This ensures you have older backups available for recovery.
* Click "OK" to create the backup policy and enable backup for your VM.

**2. Alert Rule for VM CPU Usage:**

* In the Azure portal, navigate to your virtual machine.
* Go to "Monitor" and then click on "Alerts."
* Click "+ New alert rule."
* Select "Virtual Machine" as the resource and choose your VM.
* Under "Signal," select "Percentage CPU" and set the operator to "GreaterThan" with a threshold of 80 (or your desired level).
* Configure the alert details like severity, email notification, and action group (if applicable).
* Define a name and description for the alert rule, then click "Create" to save it.

**Resources:**

* Microsoft Documentation on Backup Center: <https://learn.microsoft.com/en-us/training/modules/intro-to-azure-backup/>
* Tutorial on Creating Alerts in Azure: <https://learn.microsoft.com/en-us/azure/azure-monitor/alerts/alerts-create-metric-alert-rule>

**B. Provision Backups in Backup Center (Already Covered in A.1)**

This section reiterates the steps mentioned in A.1 for creating a backup using the Backup Center.