1. Objective – configure VM backup

- 1. Select Home > Resource groups, then choose your resource group, such as oreilly-az104
- 2. Choose your Windows VM form the previous labs, such as winvm
- 3. Under **Operations** from the menu on the left-hand side, select **Backup**, then choose **Create new** Recovery Services vault.
 - Enter a name, such as *vault-az104*. You can then choose from the backup policy drop-down list how often you want to back up the VM and what retention options you want for those backup snapshots.
- 4. In most production environments, you wouldn't create the Recovery Services vault during the VM configuration, rather than Recovery Services vault would already exist in a region. You can manage policies (as in the next exercise) from the Recovery Services vault, and then apply them to VMs.

2. Objective – Define backup policies

- 1. From the menu to enable the VM backup, select Create (or edit) a new policy
- 2. You can define custom policies that fit the business or compliance needs of your applications. For this exercise, create a policy with the following backup frequency and retention settings. If not noted below, use the defaults:

Policy name: az104-training

Frequency: Daily backup at 10pm UTC

Retention of weekly backup point: On Sunday for 4 weeks

Retention of monthly backup point: Week based on first Sunday for 12 months

Retention of yearly backup point: January, first Sunday for 7 years

3. These retention options are an example of a common approach to rotating weekly backup points to monthly backup points, then yearly backup points for long-term data compliance needs.

When ready, select **OK**

3. Objective – Implement backup policies

- 1. From the menu to enable VM backup, verify your new *az104-training* backup policy is selected. An overview of the policies defined are shown below the drop-down menu.
- 2. If needed, you can select a different policy from the drop-down menu, then choose **Create** (or edit) a new policy to change any of the settings.
- 3. When ready, select Enable Backup

The first backup can take 15-20 minutes or more to complete. Continue with the next exercise and remaining labs while the backup process continues.

4. Objective – Azure Site Recovery

- 1. From your VM, under **Operations** from the menu on the left-hand side, select **Disaster** recovery
- 2. To keep it simple, choose a **Target region** from the drop-down menu of *East US*.

 Any region within the same geography (North America, Europe, India, etc.) can be used to replicate VMs from the primary region. You can't replicate across geographies.
- 3. Select **Advanced settings** and review the resources that are automatically to be created in the destination region, *East US*. A new resource group, virtual network, cached storage, and any availability options are automatically replicated. There's nothing to change here unless you want to change for naming conventions used.
- 4. When ready, select **Review + Start replication**, then **Start replication**The first replication can take 15-20 minutes or more to complete. Leave this process to continue as you move on in the course.