**Step-by-Step Migration Guide**

**Step 1: Prepare for Migration**

1. Stop any applications writing data to the existing **S3 File Gateway**.
2. Open the AWS Storage Gateway console and ensure **CachePercentDirty = 0** under the **Monitoring** tab.
3. Shut down the **existing S3 File Gateway VM** using your hypervisor controls (EC2, VMware, KVM, or Hyper-V).

**Step 2: Detach Disks from Old Gateway**

1. Detach all disks from the old VM (**root disk & cache disks**).
2. **Note down the volume ID of the root disk** and the **Gateway ID** associated with it.
   * If using **Amazon EC2**, refer to AWS documentation on detaching EBS volumes.
   * For **KVM, VMware, or Hyper-V**, refer to the respective hypervisor documentation.

**Step 3: Set Up the New Gateway VM**

1. Create a new AWS Storage Gateway hypervisor VM instance, but **do not activate it** as a gateway.
   * **Do not** add new cache disks.
2. Configure the **new VM’s network settings** to match the old VM.
   * By default, it uses **DHCP** to obtain an IP address.
   * If required, manually configure a **static IP**.

**Step 4: Attach Disks to the New Gateway**

1. **Start** the new Storage Gateway VM.
2. Attach the **cache disks** and **root disk** from the old VM to the new VM.
   * **Do not modify disk sizes** or metadata to avoid migration failures.

**Step 5: Initiate Migration**

1. Access the new VM's migration URL in a **browser** or use **cURL**:
2. http://192.168.201.102/migrate?gatewayId=sgw-082EB861

Example:

http://198.51.100.123/migrate?gatewayId=sgw-12345678

1. If migration is successful, a confirmation message will appear:
2. Successfully imported Storage Gateway information.

**Step 6: Finalize Migration**

1. Wait for the **gateway status** to change to **Running** in the AWS Storage Gateway console (can take ~10 min).
2. **Stop** the new Storage Gateway VM.
3. Detach the **old gateway's root disk** (noted in Step 5) from the new VM.
4. **Start** the new Storage Gateway VM again.

**Step 7: Verify and Complete Migration**

1. If the gateway was connected to **Active Directory**, rejoin the domain.
2. Confirm that **file shares are accessible** from the new gateway’s IP.
3. **Delete the old gateway VM** after verification.