**Autoscaling in AWS**

1. **Auto Scaling Groups (ASGs)**
   * A logical group of Amazon EC2 instances managed together.
   * Specifies a minimum, maximum, and desired number of instances.
2. **Scaling Policies**
   * **Target Tracking Scaling:** Adjusts capacity to maintain a target metric (e.g., CPU utilization at 50%).
   * **Step Scaling:** Adjusts capacity in steps based on alarm thresholds.
   * **Scheduled Scaling:** Changes capacity at specified times.
3. **Launch Configuration or Launch Template**
   * Defines the instance type, AMI, key pair, and other instance settings used by the Auto Scaling Group.
4. **Health Checks**
   * Ensures instances are replaced if they fail. You can configure EC2 and Elastic Load Balancer (ELB) health checks.
5. **Termination Policy**
   * Determines which instance to terminate during a scale-in action.
6. **Lifecycle Hooks**
   * Add custom actions when instances are launched or terminated.

**Create a Launch Template:**

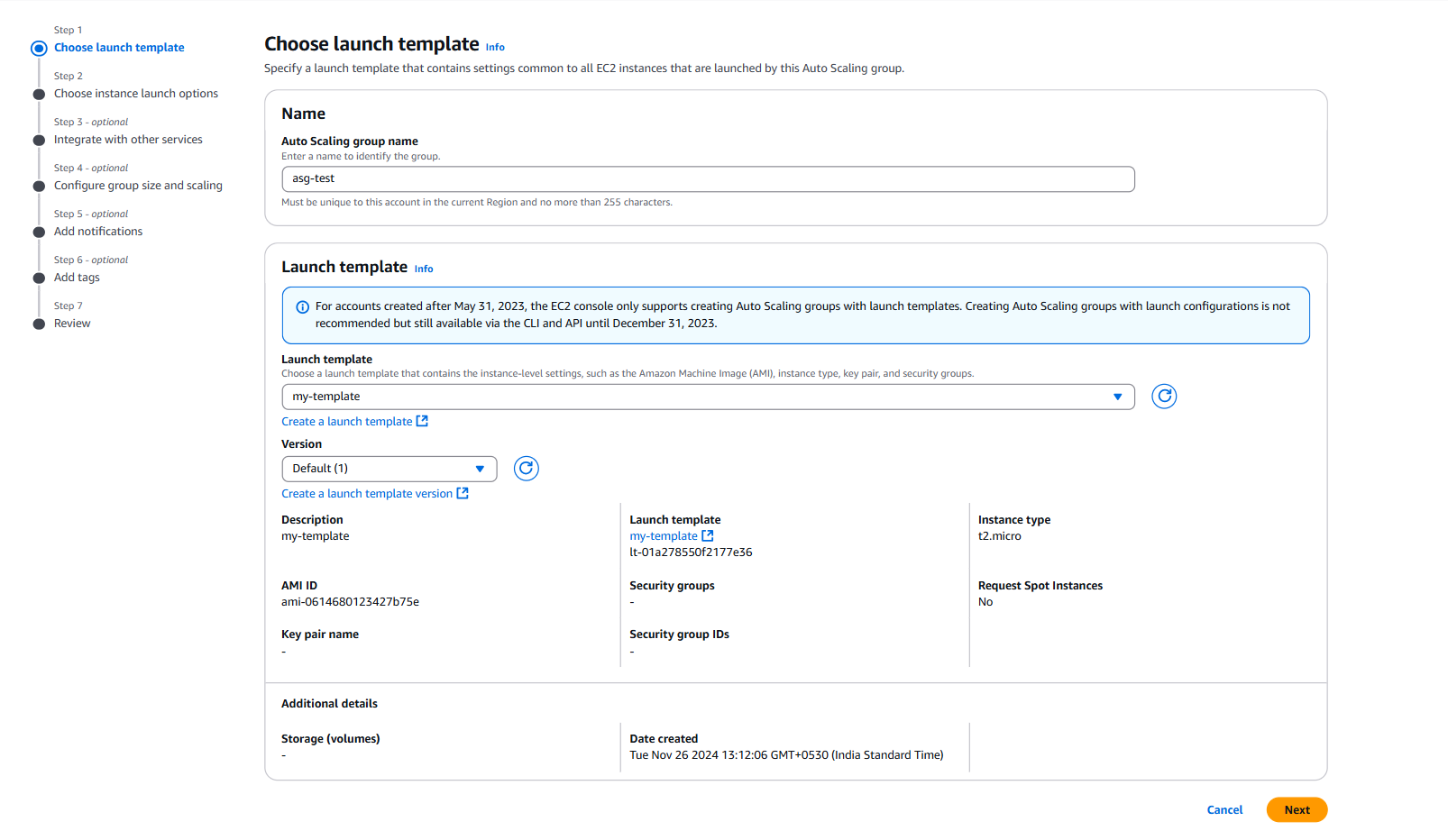
* Go to **EC2 Console** → **Launch Templates** → **Create Launch Template**.
* Specify the AMI, instance type, key pair, and security group.

A screenshot of a computer

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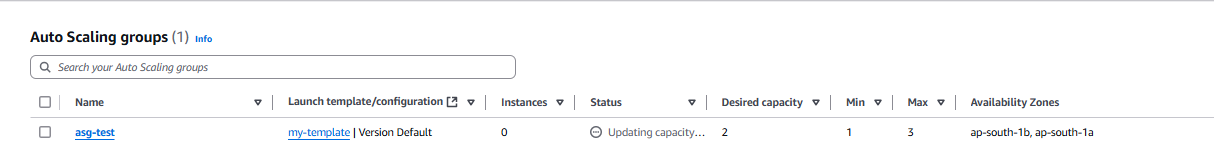
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