Created an Ec2 Instance with tag Name: **Action**, Value: **Auto-Stop**

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Created an Ec2 Instance with tag Name: **Action**, Value: **Auto-Start**

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**Create a new I AM role for Lambda.**

**- Attached the AmazonEC2FullAccess` policy to this role.**

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**import json**

**import boto3**

**# Create EC2 client**

**ec2\_client = boto3.client('ec2', region\_name='ca-central-1') # Change region if needed**

**def lambda\_handler(event, context):**

**# Filter for instances with Auto-Stop or Auto-Start tags**

**filters = [**

**{**

**'Name': 'tag:Action',**

**'Values': ['Auto-Start', 'Auto-Stop']**

**}**

**]**

**response = ec2\_client.describe\_instances(Filters=filters)**

**affected\_instances = []**

**for reservation in response['Reservations']:**

**for instance in reservation['Instances']:**

**instance\_id = instance['InstanceId']**

**state = instance['State']['Name']**

**tags = {tag['Key']: tag['Value'] for tag in instance.get('Tags', [])}**

**# If instance has Auto-Start tag and is stopped → start it**

**if tags.get("Action") == "Auto-Start" and state == "stopped":**

**print(f"Starting instance {instance\_id}...")**

**ec2\_client.start\_instances(InstanceIds=[instance\_id])**

**affected\_instances.append({"InstanceId": instance\_id, "ActionTaken": "Started"})**

**# If instance has Auto-Stop tag and is running → stop it**

**elif tags.get("Action") == "Auto-Stop" and state == "running":**

**print(f"Stopping instance {instance\_id}...")**

**ec2\_client.stop\_instances(InstanceIds=[instance\_id])**

**affected\_instances.append({"InstanceId": instance\_id, "ActionTaken": "Stopped"})**

**# Print/log affected instances**

**if affected\_instances:**

**print("Affected Instances:")**

**for entry in affected\_instances:**

**print(f"- {entry['InstanceId']} ({entry['ActionTaken']})")**

**else:**

**print("No instances required action.")**

**return {**

**"statusCode": 200,**

**"body": json.dumps(affected\_instances)**

**}**

**Output:**

**Response:**

**{**

**"statusCode": 200,**

**"body": "[{\"InstanceId\": \"i-0c55e287b17ad6942\", \"ActionTaken\": \"Started\"}, {\"InstanceId\": \"i-0c677ba2ae9d0ab14\", \"ActionTaken\": \"Stopped\"}]"**

**}**

**Function Logs:**

**START RequestId: eb4d5c34-ceb8-4093-ac17-b16bb88e2bc7 Version: $LATEST**

**Starting instance i-0c55e287b17ad6942...**

**Stopping instance i-0c677ba2ae9d0ab14...**

**Affected Instances:**

**- i-0c55e287b17ad6942 (Started)**

**- i-0c677ba2ae9d0ab14 (Stopped)**

**END RequestId: eb4d5c34-ceb8-4093-ac17-b16bb88e2bc7**

**REPORT RequestId: eb4d5c34-ceb8-4093-ac17-b16bb88e2bc7 Duration: 1254.72 ms Billed Duration: 1767 ms Memory Size: 128 MB Max Memory Used: 96 MB Init Duration: 511.76 ms**

**Request ID: eb4d5c34-ceb8-4093-ac17-b16bb88e2bc7**

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**Before Triggering the Lambda Function:**

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**After Triggering the Lambda Function:**

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