# **WakimWorks S3 Scanner — Marketplace Launch Instructions**

The **WakimWorks S3 Scanner** automatically scans your S3 buckets for security misconfigurations and sends daily reports via email. This deployment uses a CloudFormation template that:

1. Creates the IAM role required for deployment.
2. Launches a lightweight EC2 instance from the Marketplace AMI.
3. Passes your chosen parameters to the scanner’s internal CloudFormation stack.
4. Terminates the EC2 instance automatically after deployment.

## **Step 1: Prepare Your Parameters**

Before launching, decide on these three parameters:

| Parameter Name | Description | Example |
| --- | --- | --- |
| ExcludeBuckets | Comma-separated S3 bucket names to skip from scans | bucket1,bucket2 |
| InnovationMode | Enable auto-remediation features | scanning\_only or scanning\_and\_autoremediation |
| UserEmail | Email address to receive daily scan results | you@example.com |

## **Step 2: Launch the CloudFormation Stack**

1. Go to the **AWS CloudFormation Console**.
2. Click **Create Stack → With new resources (standard)**.
3. Under **Specify template**, choose **Upload a template file** and upload the file: WakimWorks-S3Scanner-Launcher.yaml (the template provided).
4. Click **Next**.
5. Enter the **stack name**, e.g., WakimWorksS3Scanner.
6. Fill in the **parameters** from Step 1.
7. Click **Next**, then **Next** again (skip tags and advanced options).
8. Check the acknowledgment box for IAM resources:

* “I acknowledge that AWS CloudFormation might create IAM resources.”

1. Click **Create stack**.

CloudFormation will now:

* Create the IAM role S3ScannerLauncherRole
* Launch the EC2 instance from the Marketplace AMI
* Pass your parameters (ExcludeBuckets, InnovationMode, UserEmail) to the AMI user-data
* Automatically terminate the EC2 instance after deployment

## **Step 3: Two-Stack Flow (Important)**

After deployment, users will **see two CloudFormation stacks** in their account:

| Stack Name | Purpose | Visibility |
| --- | --- | --- |
| WakimWorksS3ScannerLauncher | Creates IAM role + launches EC2 AMI | Visible |
| S3ScannerDeployment | Creates Lambda, SNS, SES, etc. (scanner) | Visible |

**Key Points:**

* The **first stack** (WakimWorksS3ScannerLauncher) is a **bootstrapper**. It creates the IAM role and launches the EC2 instance. Once the EC2 instance completes deployment, it self-terminates.
* The **second stack** (S3ScannerDeployment) is the **active scanner**. It contains the Lambda functions, SNS topic, SES configuration, and any other resources used for daily S3 scanning.
* Users should **not worry** about seeing two stacks — this is expected and by design. The launcher stack is temporary; the main scanner stack is where ongoing resources live.

## **Step 4: Monitor Deployment**

1. Open the **CloudFormation Console**.
2. Watch both stacks:
   * WakimWorksS3ScannerLauncher → Should show CREATE\_COMPLETE (EC2 may be TERMINATED shortly after)
   * S3ScannerDeployment → Shows CREATE\_IN\_PROGRESS and then CREATE\_COMPLETE
3. Confirm that daily scan emails are delivered to the **UserEmail** you provided.

## **Step 5: Confirm and Customize**

* You can **view the resources** in the S3ScannerDeployment stack for Lambda, SNS, SES, and any IAM roles/policies it created.
* To modify parameters (like excluded buckets or InnovationMode) later, update the **main scanner stack** (S3ScannerDeployment) directly — no need to touch the launcher stack.

## **Step 6: Costs and Termination**

* The EC2 instance from the launcher stack **terminates automatically** after deployment.
* Ongoing costs are only for resources created by the **main scanner stack**:
  + Lambda functions
  + SNS topics
  + SES emails
* No server management is required.

## **Step 7: Optional Troubleshooting**

* Check /var/log/scanner-deploy.log on the EC2 instance (if needed) or CloudWatch logs if logging is enabled.
* Ensure the IAM role was created successfully and the Marketplace AMI ID in the template matches the AMI being launched.

✅ **Done!**