Mandiant

ASM AWS INTEGRATION

> This integration is not currently supported for AWS GovCloud (US) users.

To provide a more thorough view of your inventory, Mandiant Advantage Attack Surface Management (MA-ASM) can integrate with Amazon Web Services (AWS) to retrieve the following:

- Public EC2 instances
- S3 buckets

  > MA-ASM confirms whether S3 buckets are publicly accessible and creates relevant Issues.

- Route 53 zones
- Amazon Relational Database Service (RDS DB) instances

  > MA-ASM uses Mandiant Security Integrations-as-a-Service (MSI) to collect RDS DB data.

Adding the AWS integration requires three steps:

1. **Create the policy in AWS**
2. **Create an access method for MA-ASM**
3. **Provide AWS credentials to MA-ASM**

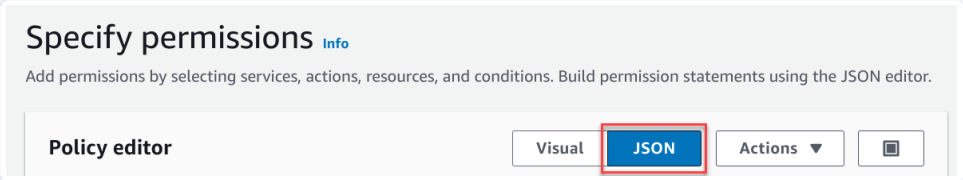
Create the policy in AWS

You first need to create the policy in AWS for MA-ASM to use.

1. Authenticate to AWS and browse to **Identity and Access Management (IAM)** in the AWS console.
2. Go to **Access Management > Policies**. Alternatively, access **https://us-east-1.console.aws.amazon.com/iam/home#/policies**.
3. Click **Create policy**.

   > You must have permissions to create roles and policies within AWS.

4. Select **JSON**.



5. Copy and paste the following JSON snippet into the text field and click **Next**.

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```
{
  "Version":"2012-10-17",
  "Statement":[
    {
      "Effect":"Allow",
      "Action":[
        "route53:ListHostedZones",
        "route53:ListResourceRecordSets"
      ],
      "Resource":"*"
    },
    {
      "Effect":"Allow",
      "Action":"s3:ListAllMyBuckets",
      "Resource":"*"
    },
    {
      "Effect":"Allow",
      "Action":"ec2:DescribeInstances",
      "Resource":"*"
    },
    {
      "Effect":"Allow",
      "Action":"rds:DescribeDBInstances",
      "Resource":"*"
    }
  ]
}
```

6. On the **Review and create** page, populate the following **Policy details** fields:
   - **Policy name**: Name for the policy.

     Make a note of the name that you use as it is needed in the next section.

   - **Description - *optional***: Description of the policy.
7. Review the **Permissions defined in this policy** section and click **Create policy**.

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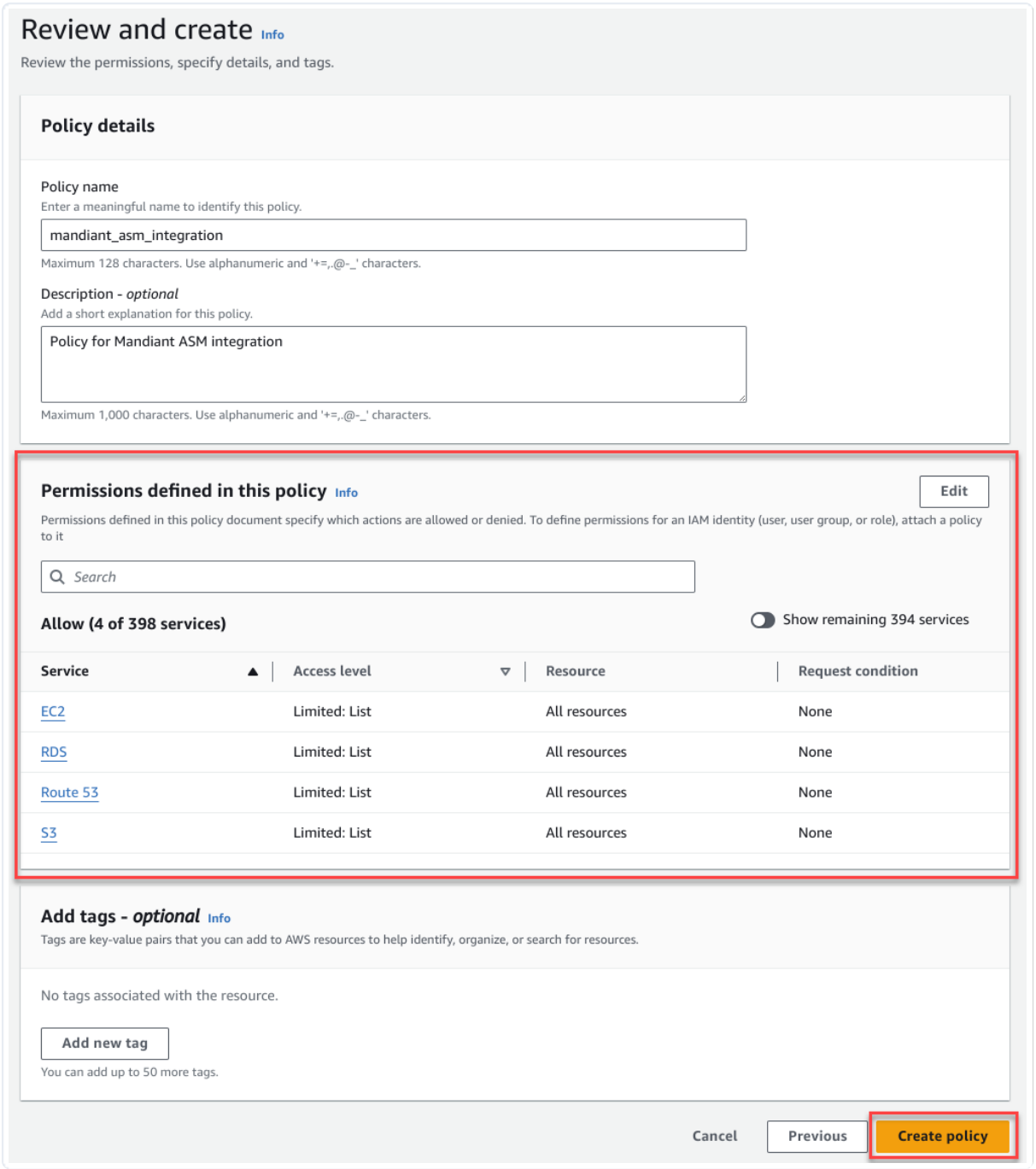

Authenticate using cross-account access

Once the AWS Policy is created, you must provide a method for MA-ASM to authenticate with your AWS Accounts. MA-ASM uses the cross-account access from the preceding section to automatically generate temporary, short-lived tokens whenever it needs to integrate with your AWS account. This access method eliminates the need for any additional access keys.

1. In the AWS console, browse to **Identity and Access Management (IAM)**.
2. Go to **Access Management > Roles**. Alternatively, access **https://us-east-1.console.aws.amazon.com/iam/home#/roles**.

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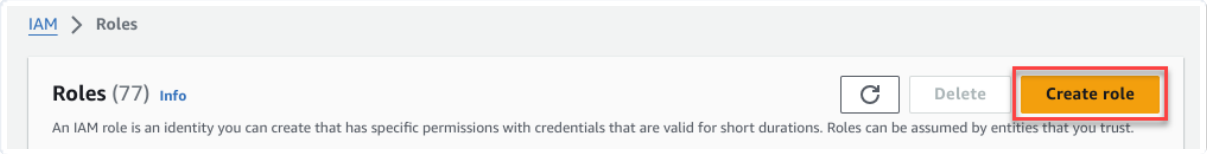
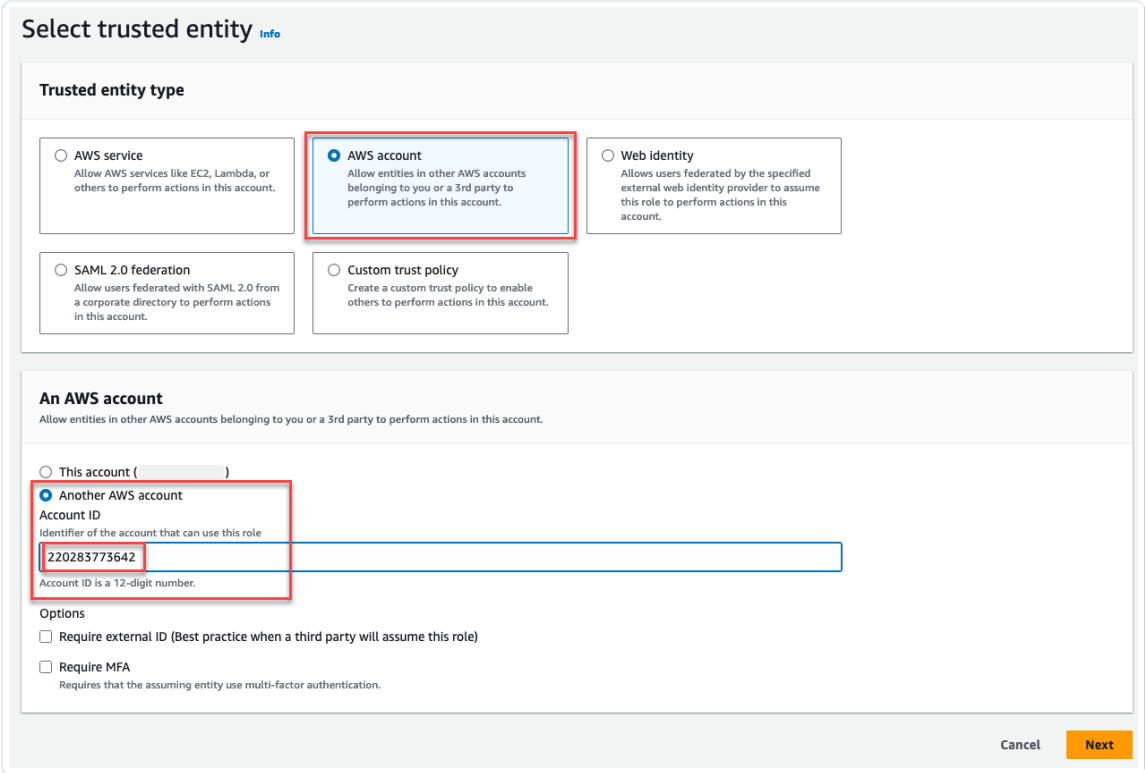
3. Click **Create role**.



4. On the **Select trusted entity** page:
   a. Select the **AWS Account** tile.
   b. Select the **Another AWS account** radio button.
   c. In the **Account ID** field, enter `220283773642`.



5. Under **Options**, select the checkbox requiring use of an external ID. Copy the **External ID** from MA-ASM and paste it here.

> Requiring an External ID is an AWS best practice when a third party (MA-ASM, in this case) assumes the role.

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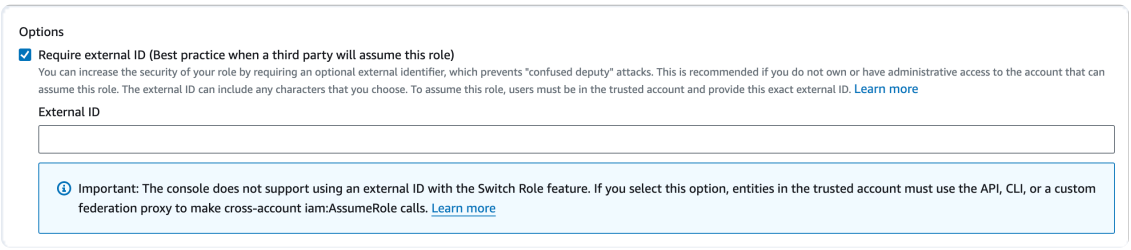
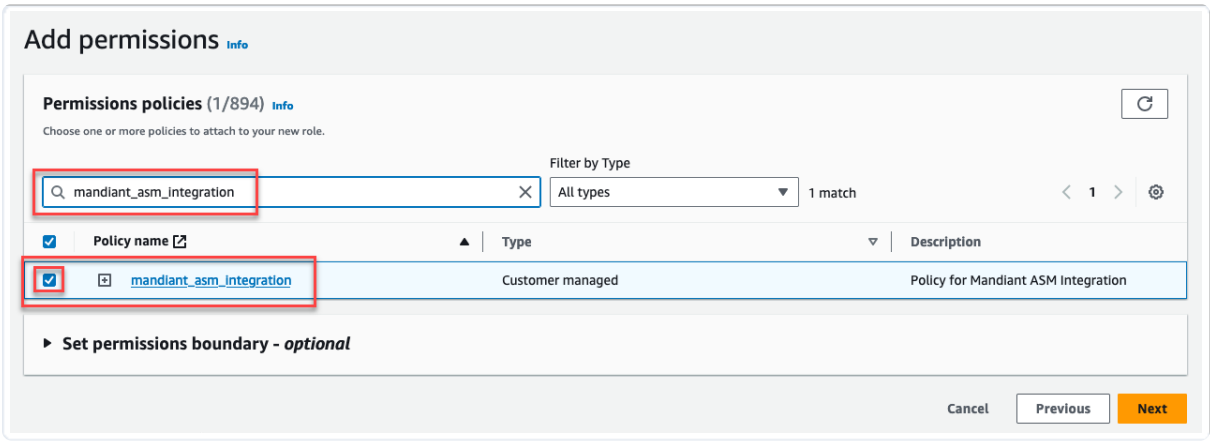
- There is one External ID per MA-ASM project.
- To access the **AWS External ID** from MA-ASM:
  1. From the **Projects and Settings** menu in MA-ASM, select the appropriate Project then click Account Settings.
  2. Click **Integrations**.
  3. Click **Add New** for **AWS (Roles)**.
  4. Click **Copy Key**.

AWS External ID in MA-ASM with **Copy Key** option



AWS view with option selected to require an external ID

6. Click **Next**.
7. On the **Add permissions** page, search for the name of the policy that you created in the preceding section. Once the search populates, select the checkbox associated with the policy.



8. Click **Next**.
9. On the **Name, review and create** page:
   a. In the **Role name** field, enter a meaningful name.
   b. Confirm that the **Step 1: Select trusted entities** section shows `"AWS": "220283773642"` and `"sts:ExternalID": "AWS External ID"`.
   c. Click **Create role**.

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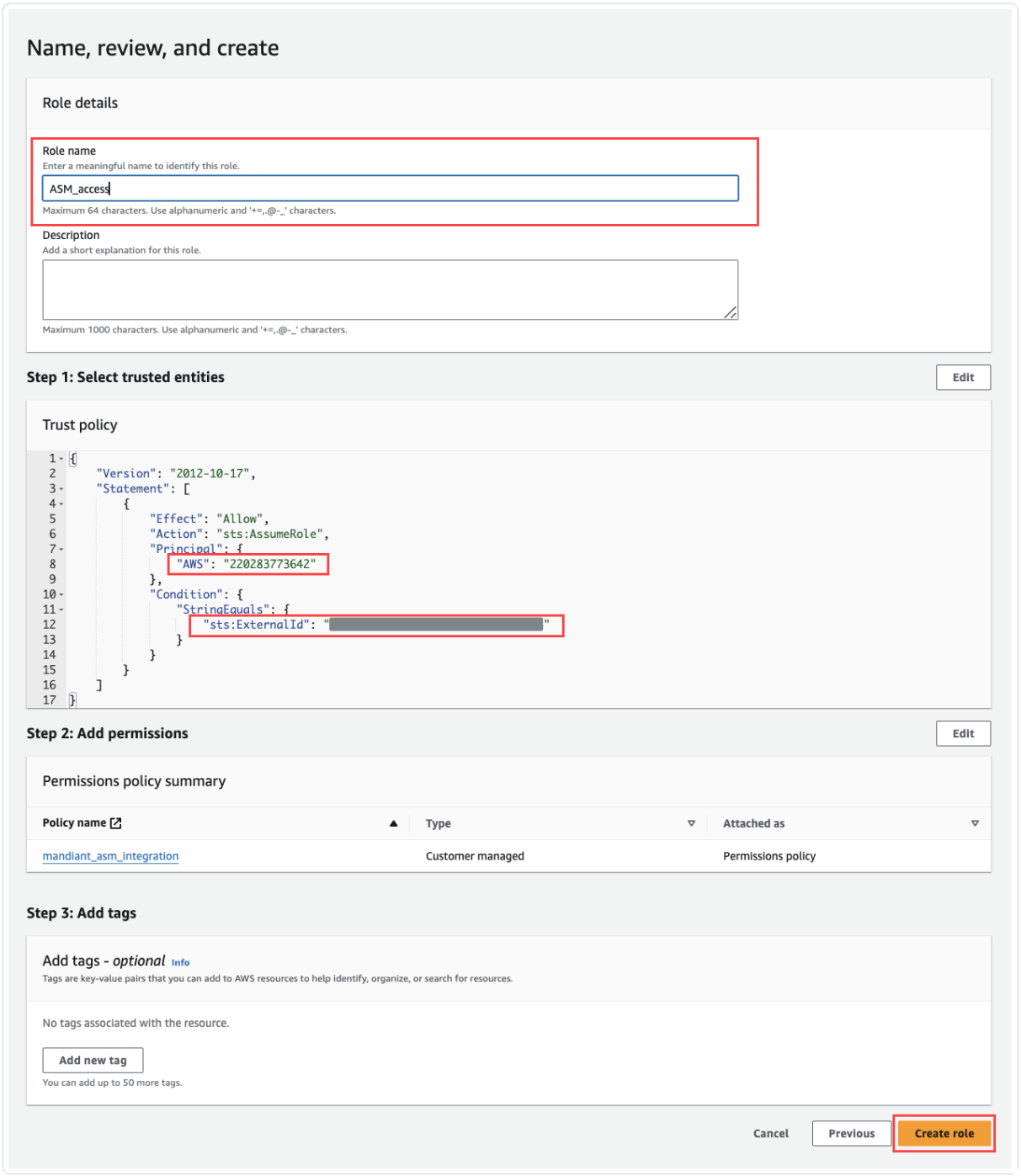

10. Select the newly created role and make a note of the **Role ARN** to be used when **providing AWS Credentials to MA-ASM**.

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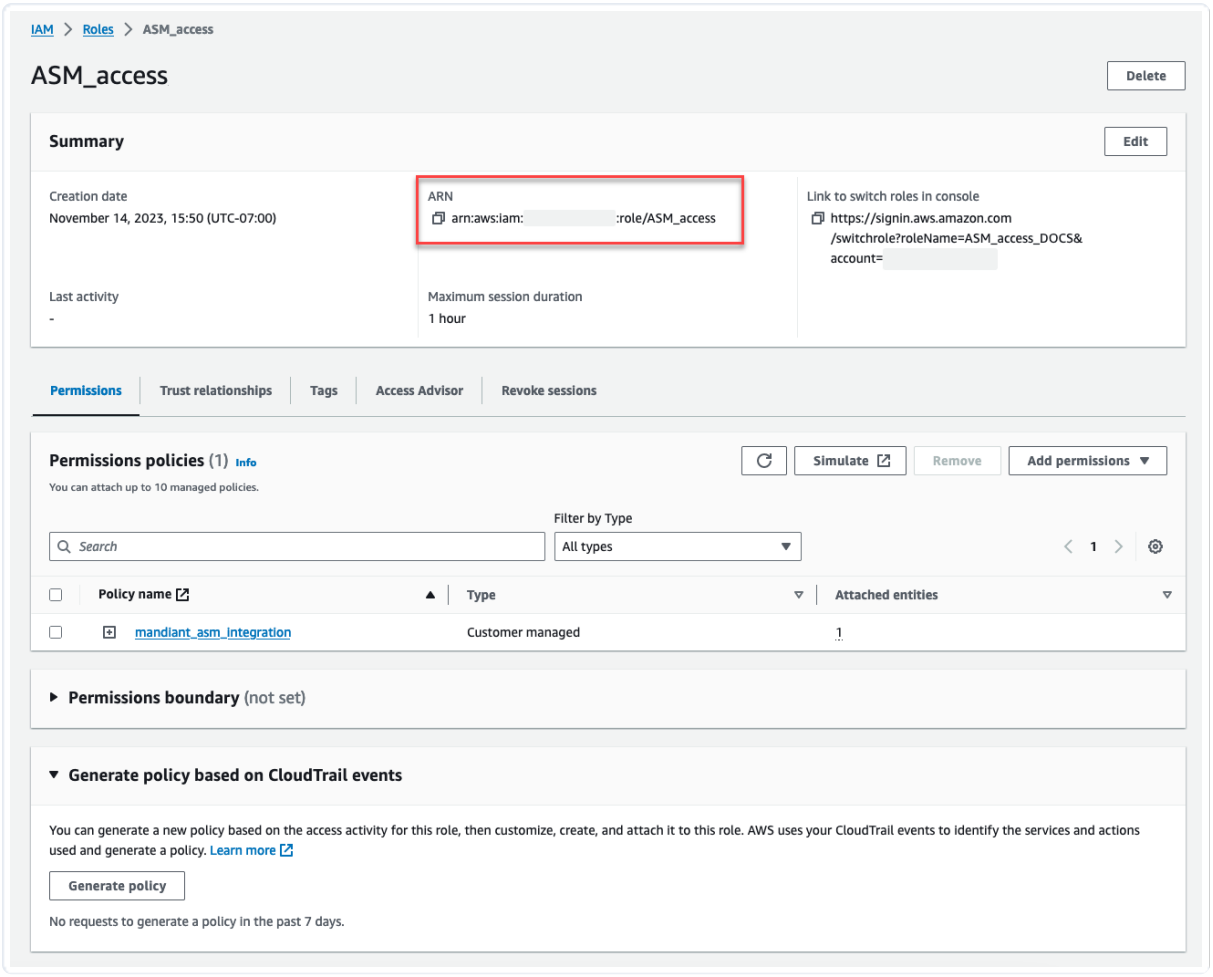
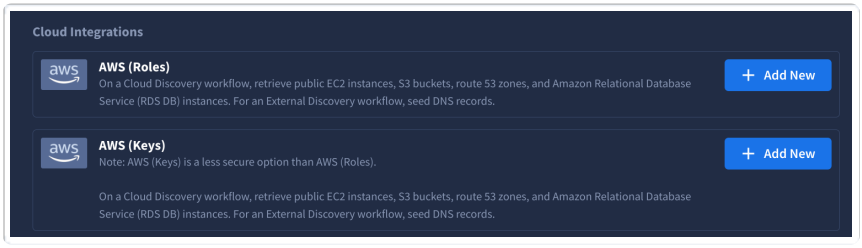


Provide AWS Credentials to MA-ASM

Now that you have AWS ready to accept connection requests from MA-ASM, it's time to add the appropriate AWS credentials into your Project.

1. From the **Projects and Settings** menu in MA-ASM, select the appropriate Project then click **Account Settings**.
2. Click **Integrations**.
3. Click **Add New** for the appropriate connection method:
    - Recommended: **AWS (Roles)**
    - **AWS (Keys)**



4. Depending on what you select in the preceding step:
    - Enter the **Role ARN** value from your AWS account into the appropriate field.
    - Enter the AWS **Access Key ID** and AWS **Secret Access Key** into the appropriate fields.

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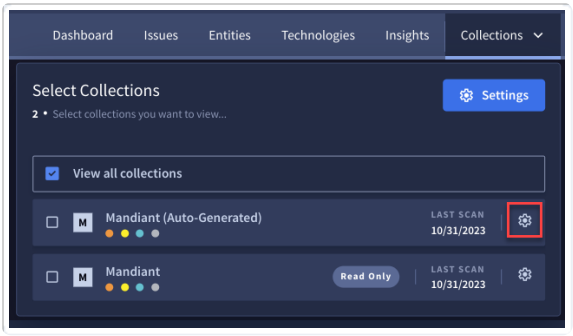
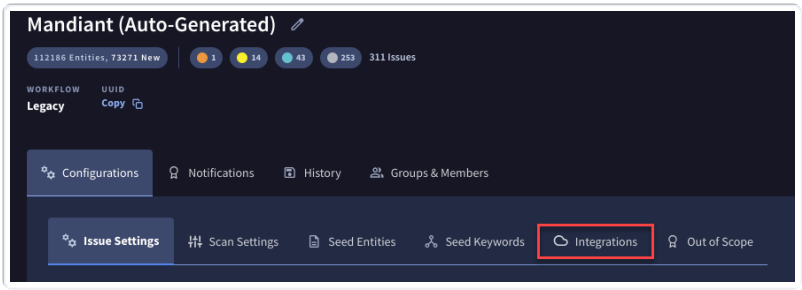
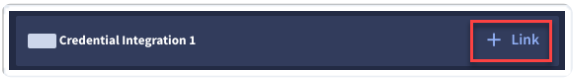
5. Click **Connect**.
6. Connect the integration to the appropriate Collection.
    a. Click **Collections** and click **Collection Settings** for the Collection that you want to connect the integration to.



    b. Select the **Integrations** tab.

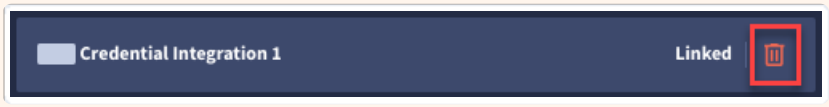


    c. Select **Connect Integration** and **Link** the integration.



    The integration is immediately added to the Collection.

    Click to remove the integration from this Collection.



    d. Click to close the **Connect Integration** pane. Click **Scan Collection** to update your Collection with the current settings and integrations. Otherwise, your newly configured integration is incorporated at your regularly scheduled scan interval.

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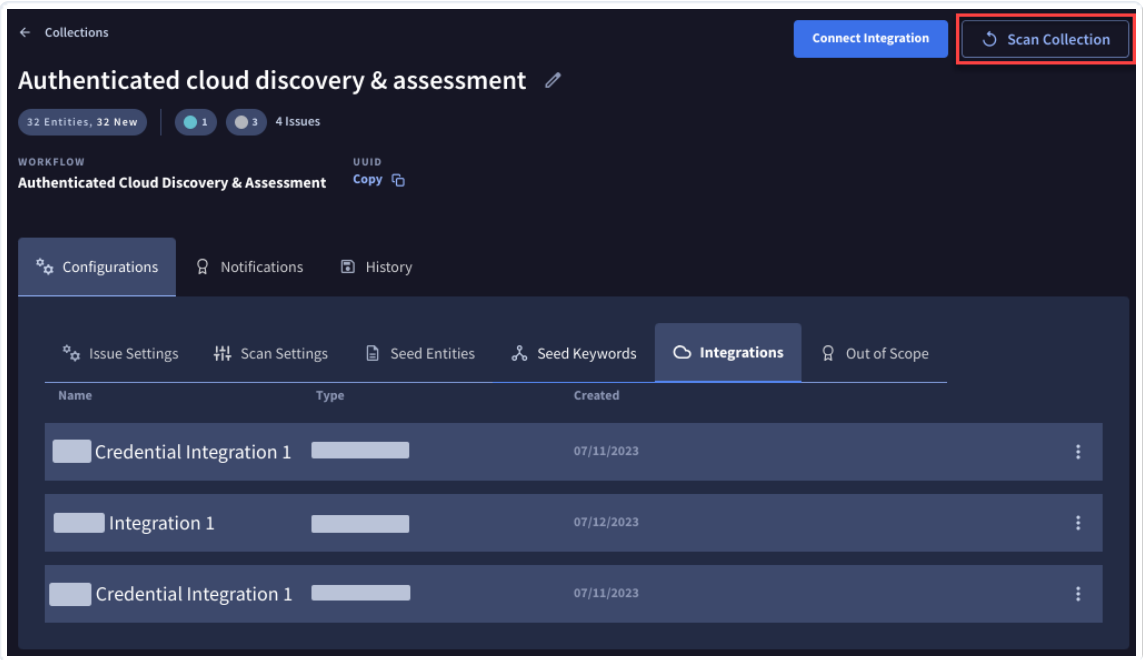

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