AWS GuardDuty getting started guide (IAM role)

Version 2.0

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What's in this guide?

Howdy! In this guide, you'll find instructions on how to:

1. Create an AWS IAM Policy;
2. Create an AWS IAM Role; and
3. Configure AWS GuardDuty in Expel Workbench™.

Prerequisite

An AWS account with permissions to create and modify IAM roles.

Step 1 — Create an AWS IAM policy

In this step, we're going to create a permissions policy that will be assigned to the IAM Role.

A. Log into the AWS console and navigate to the **IAM service** (Figure 1)

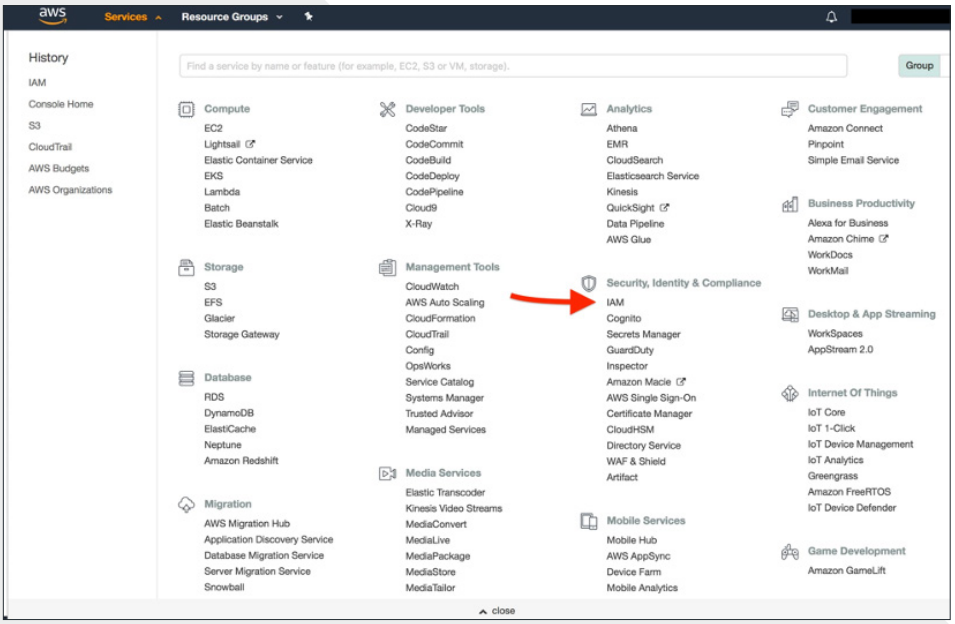


Figure 1

B. Go to **Policies** and click on **Create Policy** (Figure 2)

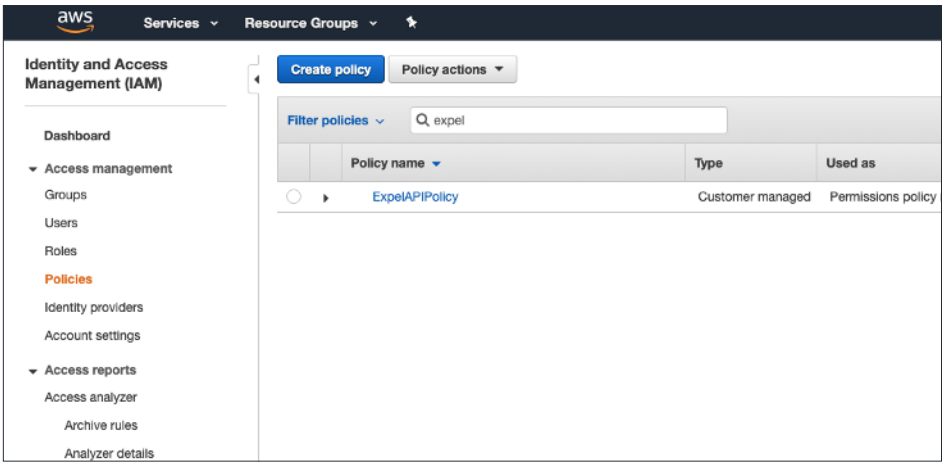


Figure 2

C. Add the following permissions using the JSON tab (Figure 3)

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "guardduty:GetFindings",
                "guardduty:ListDetectors",
                "ec2:DescribeRegions",
                "guardduty:ListFindings",
                "guardduty:GetDetector"
            ],
            "Resource": "*"
        }
    ]
}
```

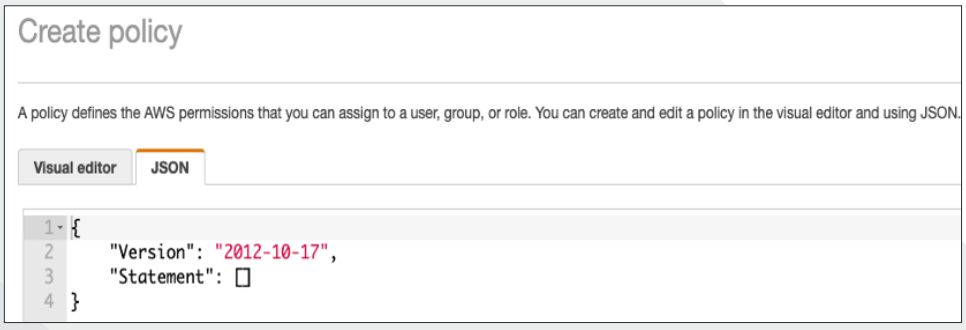


Figure 3

D. **Review** and **name** the policy (Figure 4)

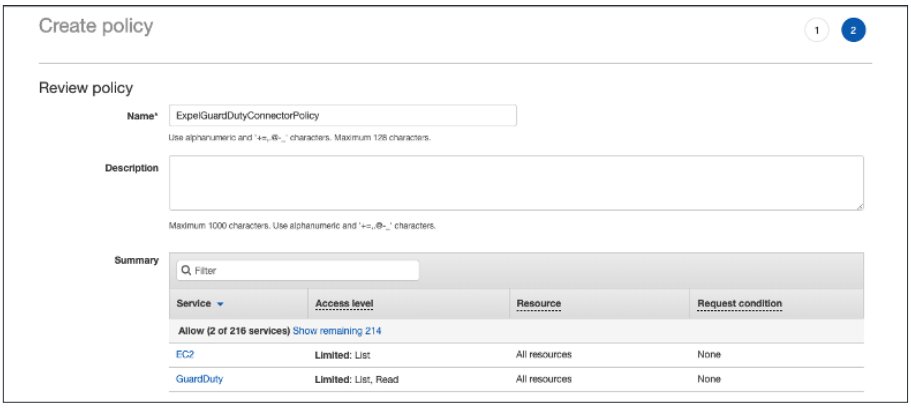


Figure 4

Step 2 — Create an IAM role

Create an IAM role to connect to your GuardDuty Service.

A. From within the IAM service, Navigate to **Roles** and press **Create Role** (Figure 5)

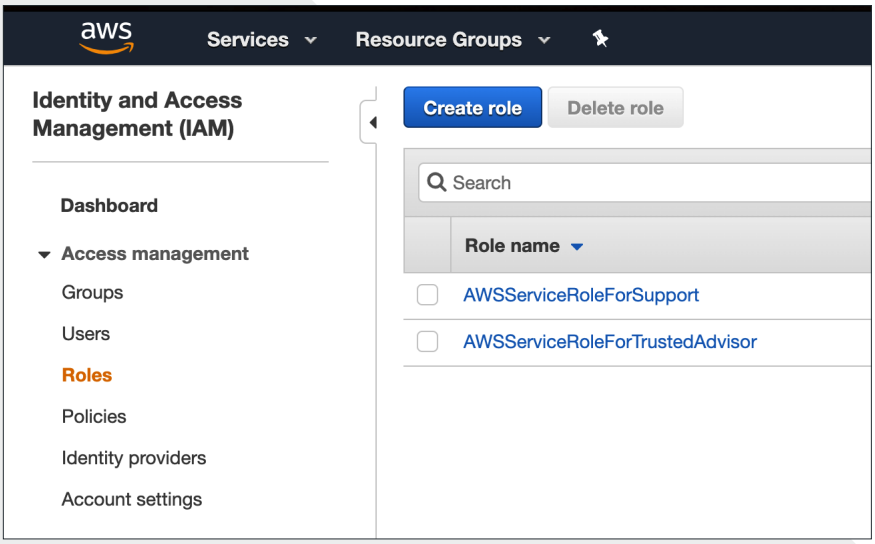


Figure 5

B. Select **Another AWS account** and fill out the required fields (Figure 6)

   a. **Account ID: 012205512454** (Expel's AWS account ID)

   b. **External ID:** Choose a unique value. We recommend generating a long, unique passphrase

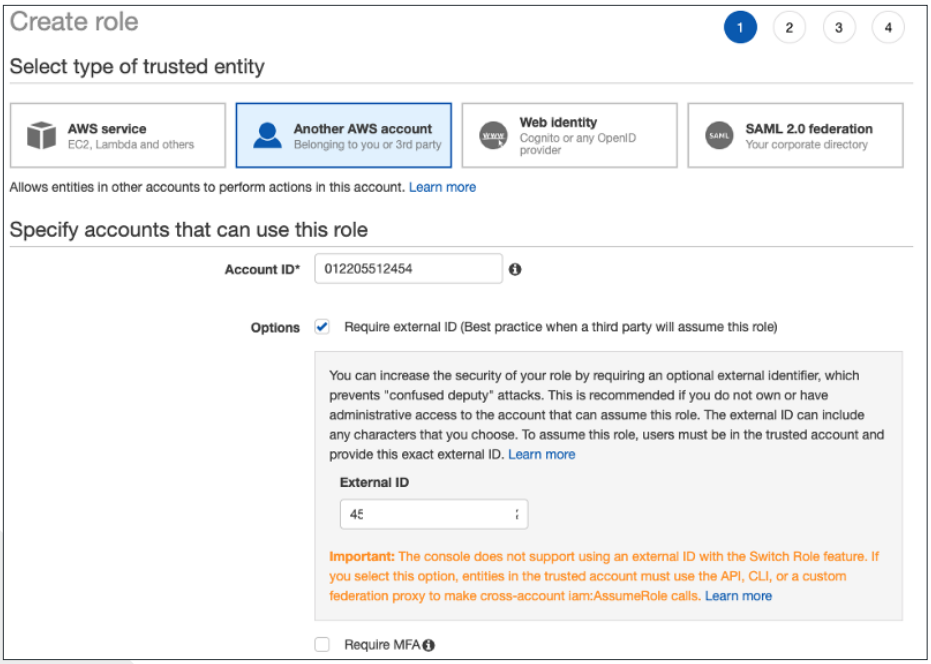


Figure 6

C. Attach The **IAM policy** from *Step 1* to the Role (Figure 7)

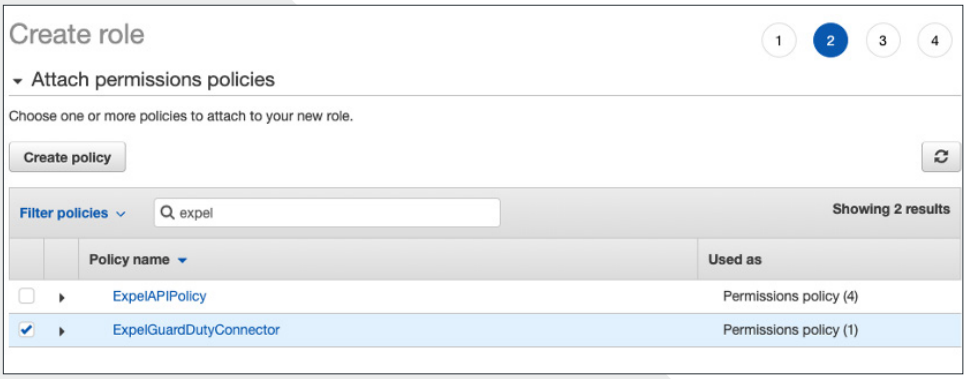


Figure 7

D. Give the Role a **name** and press **Create Role** (Figure 8)

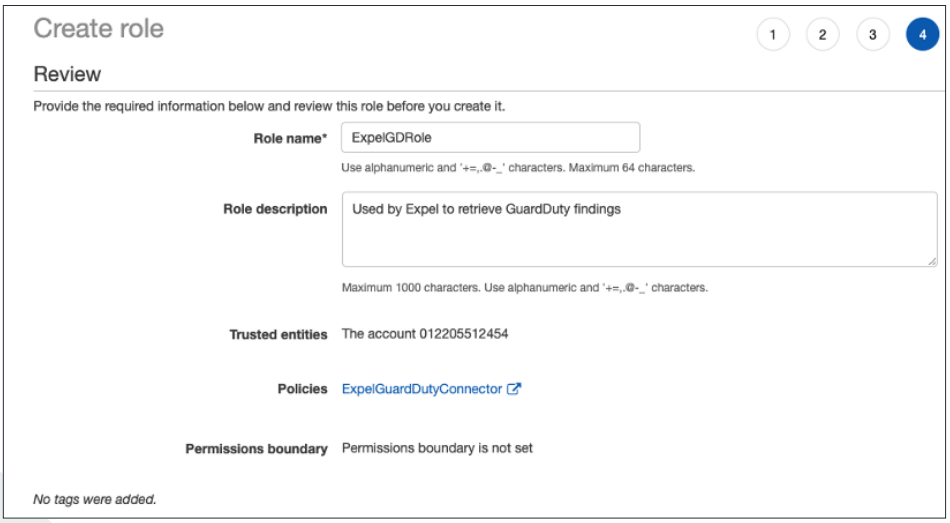


Figure 8

E. Navigate to the role you just created and copy the following information for onboarding in Workbench (Figure 9)

a. **Role ARN**

b. **External ID Value** under the **Trust relationships** tab

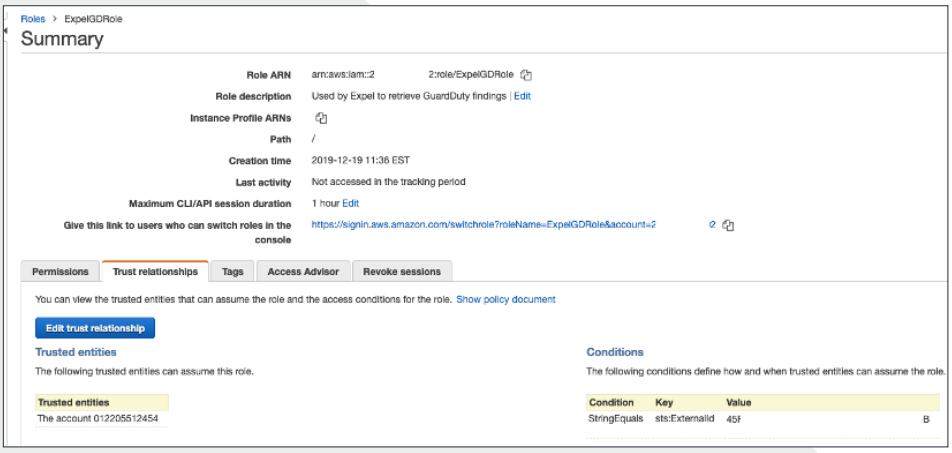


Figure 9

Step 3 — Onboard AWS GuardDuty in Workbench

Register device in Expel Workbench for IAM Role

A. In a new browser tab, login to https://workbench.expel.io

D. Enter Security Code from Google Authenticator (two-factor authentication)

C. On the console page, navigate to **Settings** and click **Security Devices**

D. At the top right of the page, select **Add Security Device** (Figure 10)

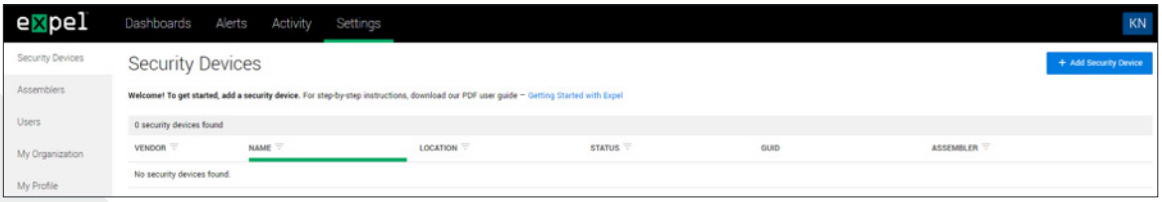


Figure 10

E. Search for and select AWS Guard Duty (Figure 11)

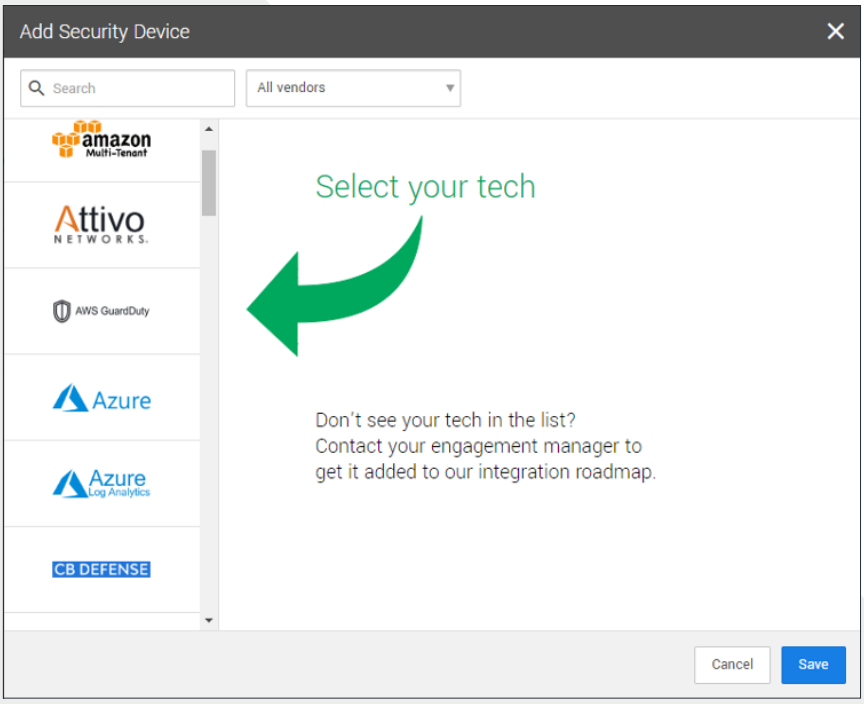


Figure 11

F. See Figure 12 for *Steps G-H*

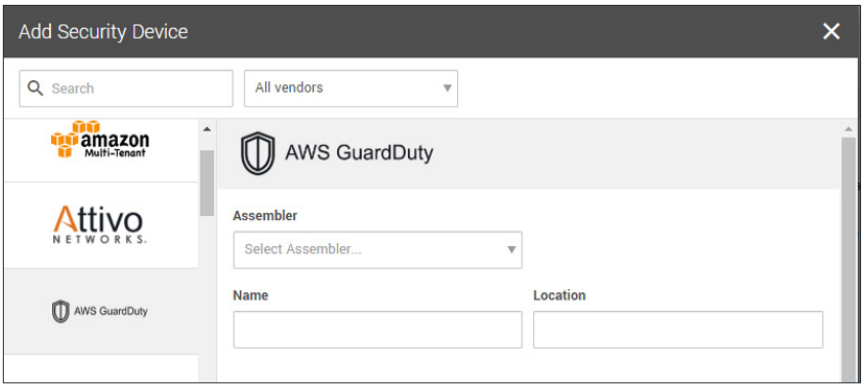


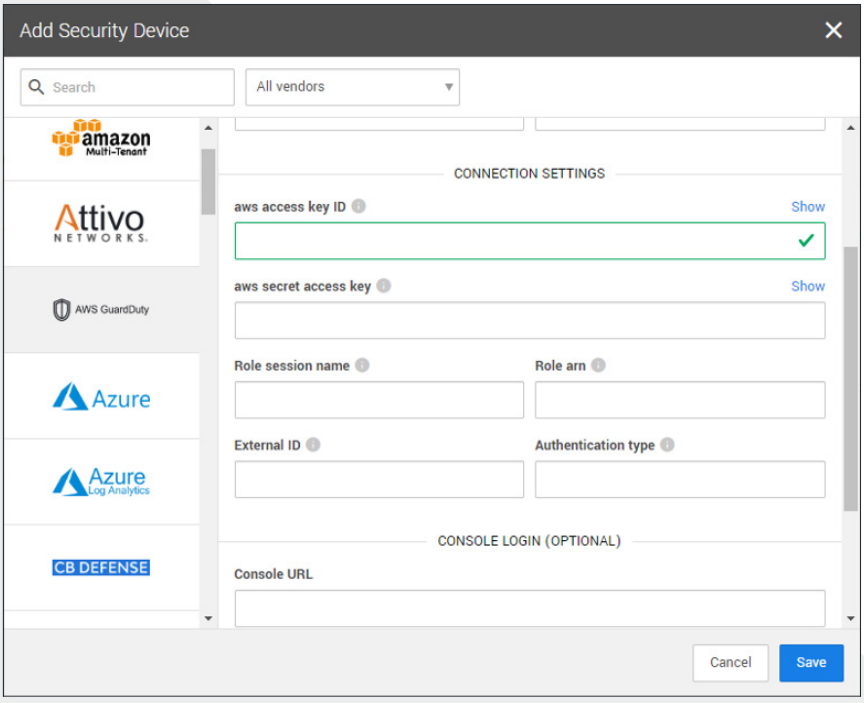
Figure 12

G. For **Name** enter the hostname of the AWS GuardDuty device

H. For **Location** enter the geographic location of the appliance

I. See Figure 13 for *Steps J-O*

Figure 13



J. **Role ARN:** Enter the Role ARN from *Step 2, Letter E*

K. **External ID:** Enter the External ID from *Step 2, Letter E*

L. **Role session name:** Use a unique name to identify the use of the role

M. **Authentication type:** Enter **STSASSUMEROLE**

N. Other fields can be left blank

O. Select **Save**

P. After a few minutes (1–10 minutes), refresh the **Security Devices** page and you should see your device status reporting as *Healthy*, or if there is an issue, it will provide more details of what the issue may be

Q. To check and see if alerts are coming through, navigate to **Alerts** on the console page. Click the icon in the upper right to switch to grid view, then check the list for AWS GuardDuty alerts

That's it! Give yourself a pat on the back — you're done!

If you have any issues, concerns, questions or feedback,
please don't hesitate to contact Expel at devicehealth@expel.io.