



AWS setup instructions for Yubico YubiKeys



The YubiKey provides stronger user authentication and is ready to use with AWS. There is no additional programming or software needed to get started. Based on your scenario, use the following setup instructions to:

- 1 Setup the permissions policy
- 2 IAM user (setting up yourself)
- 3 IAM users (setting up another user)
- 4 AWS account root users

1 Setup the permissions policy

To manage a YubiKey for your own IAM user while protecting sensitive MFA-related actions, you must have the permissions from the following policy:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AllowManageOwnUserMFA",
      "Effect": "Allow",
      "Action": [
        "iam:DeactivateMFADevice",
        "iam:EnableMFADevice",
        "iam:GetUser",
        "iam:ListMFADevices",
        "iam:ResyncMFADevice"
      ],
      "Resource": "arn:aws:iam::*:user/${aws:username}"
    },
    {
      "Sid": "DenyAllExceptListedIfNoMFA",
      "Effect": "Deny",
      "NotAction": [
        "iam:EnableMFADevice",
        "iam:GetUser",
        "iam:ListMFADevices",
        "iam:ResyncMFADevice"
      ],
      "Resource": "arn:aws:iam::*:user/${aws:username}",
      "Condition": {
        "BoolIfExists": {
          "aws:MultiFactorAuthPresent": "false"
        }
      }
    }
  ]
}
```

2 IAM user (setting up yourself)–enable your YubiKey in 6 simple steps

1. Use your AWS account ID or account alias, your IAM user name, and your password to sign in to the [IAM console](#).
2. In the navigation bar on the upper right, choose your user name, and then choose **My Security Credentials**.
3. On the AWS IAM credentials tab, in the Multi-factor authentication section, choose **Manage MFA device**.
4. In the **Manage MFA device** wizard, choose **U2F security key**, and then choose **Continue**.
5. Insert the YubiKey into your computer's **USB port**.
6. Tap the YubiKey, and then choose **Close** when U2F setup is complete.

User1 @123456789012

IAM User
User 1

Account
123456789012

My Account

My Organization

My Billing Dashboard

My Security Credentials

Switch Role

Sign Out



3 IAM users (setting up another user)–enable your YubiKey in 5 simple steps

1. Sign in to the [IAM console](#).
2. In the left navigation pane, select **Users**, and then choose the name of the user for whom you want to enable a YubiKey.
3. Select the **Security Credentials** tab, and then select the **Manage** link next to the Assigned MFA device.

Users > DBAdmin

Summary

User ARN `arn:aws:iam::[redacted]:user/DBAdmin`

Path /

Creation time 2018-09-11 15:16 PDT

Permissions Groups (1) Tags (0) **Security credentials** Access Advisor

Sign-in credentials

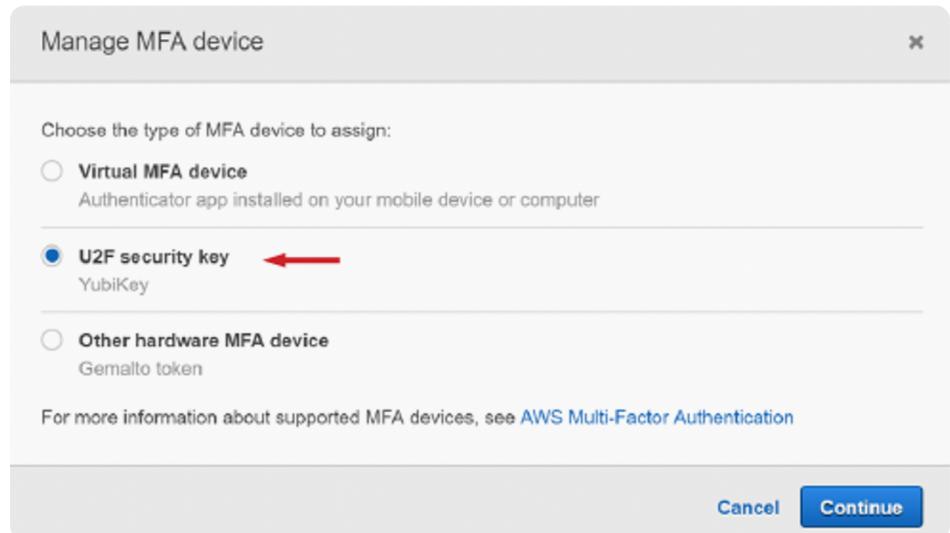
Summary • Console sign-in link: [https://\[redacted\].aws-signin-testing.amazon.com/console](https://[redacted].aws-signin-testing.amazon.com/console)

Console password Enabled (last signed in Today) | [Manage](#)

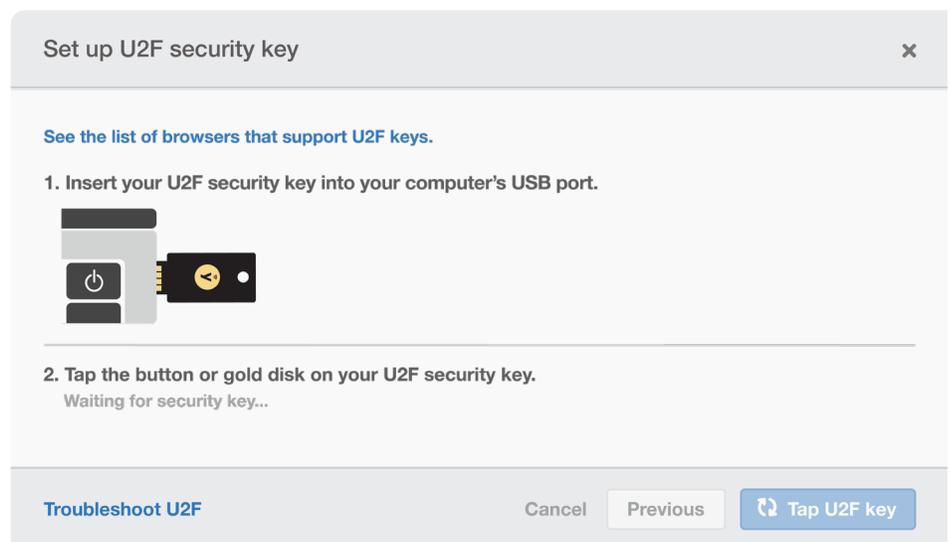
Assigned MFA device Not assigned | [Manage](#)

Signing certificates None

4. In the Manage MFA Device wizard, select **U2F security key**, and then select **Continue**.



5. Insert the YubiKey into the USB port of your computer, wait for the key to blink, and then touch the button/gold disk on your key. If your key doesn't blink, please select **Troubleshoot U2F** to review instructions to troubleshoot the issue.



4 AWS account root users—enable your YubKey in 6 simple steps

Note: Be sure to enable privacy settings and make sure your [permissions](#) are set up properly.

Sign into the [IAM console](#) as the account owner by choosing **Root user** and entering your AWS account email address. On the next page, enter your password.

1. Enable user MFA policy.
2. On the right side of the navigation bar, choose your account name, and then choose **My Security Credentials**. If necessary, choose **Continue to Security Credentials**.
3. Expand the **Multi-factor authentication (MFA)** section and choose **Manage MFA** or **Activate MFA**.
4. In the wizard, choose **U2F security key**, and then select **Continue**.
5. Insert the YubiKey into your computer's USB port.
6. Tap the U2F YubiKey, and then choose **Close** when U2F setup is complete.

For more detailed information [go here](#).

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