

# ARMOR AUTOMATED COMPLIANCE – HIPAA (HOW TO GUIDE)

---

PRODUCT MARKETING

FEBRUARY 2019



# WELCOME

---

Welcome Armor Family!

Thank you for choosing to utilize Armor's Automated Compliance Solution for HIPAA. This Solution is meant to help our clients more easily achieve HIPAA compliance in the cloud. Armor has used its years of compliance experience helping companies implement HITRUST guidelines in the cloud to achieve HIPAA and combined that with our partnership and experience with AWS to develop this "infrastructure and security-as-code" solution. This solution is a [CloudFormation Template](#).

Our CloudFormation Template allows customers to reliably and consistently spin up the basic client/server architecture necessary to run web applications in AWS in a way that is in-line and consistent with the HITRUST guidelines for implementing HIPAA in the cloud. This allows our clients' developers to move at the speed of modern DevOps shops, while staying in-line with our clients' security and compliance concerns.

This document acts as a guide to help walk you through the process of installing the template! If you have any questions feel free to reach out to Armor Support!

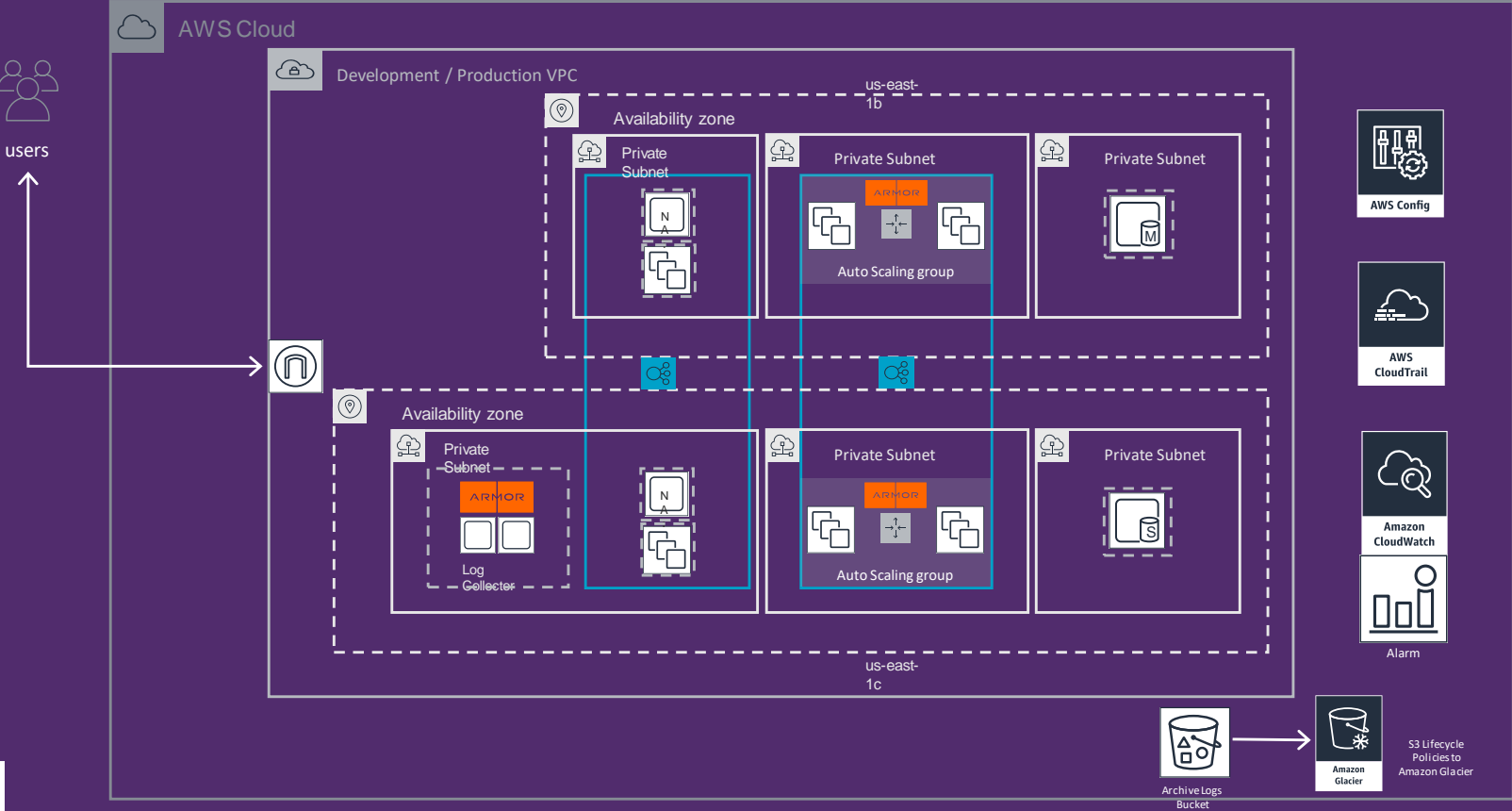
Cheers,

Your Armor Team

# ARMOR AUTOMATE COMPLIANCE – HIPAA (THE SOLUTION)

---

# ARMOR AUTOMATED COMPLIANCE

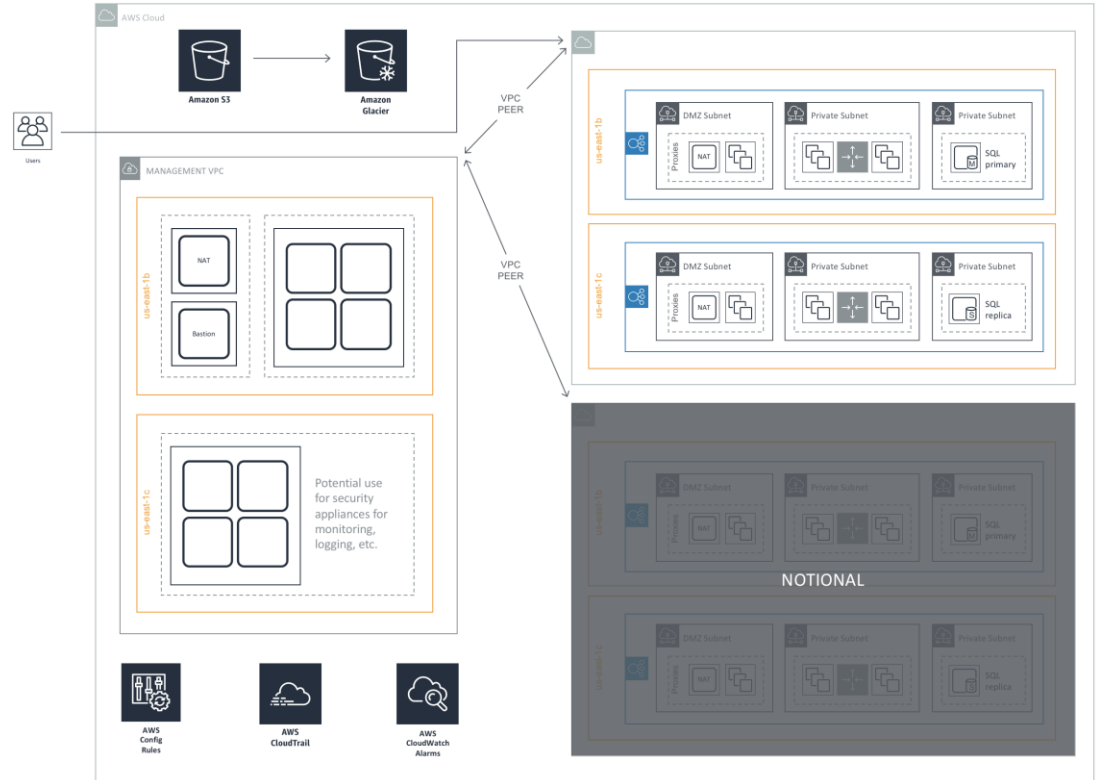


# WHAT DOES CFT FOR HIPAA COMPLIANCE ENTAIL?

## IMPORTANT:

Armor does not provide legal or compliance advice. Clients are solely responsible for determining and complying with their obligations under HIPAA, the Armor or AWS Business Associate Addendum (BAA), and all other applicable laws, rules and regulations. Clients should consult with qualified legal counsel or consultants, as needed, to ensure that their use of AWS complies with HIPAA, the terms of the AWS BAA, and other applicable laws, rules, and regulations.

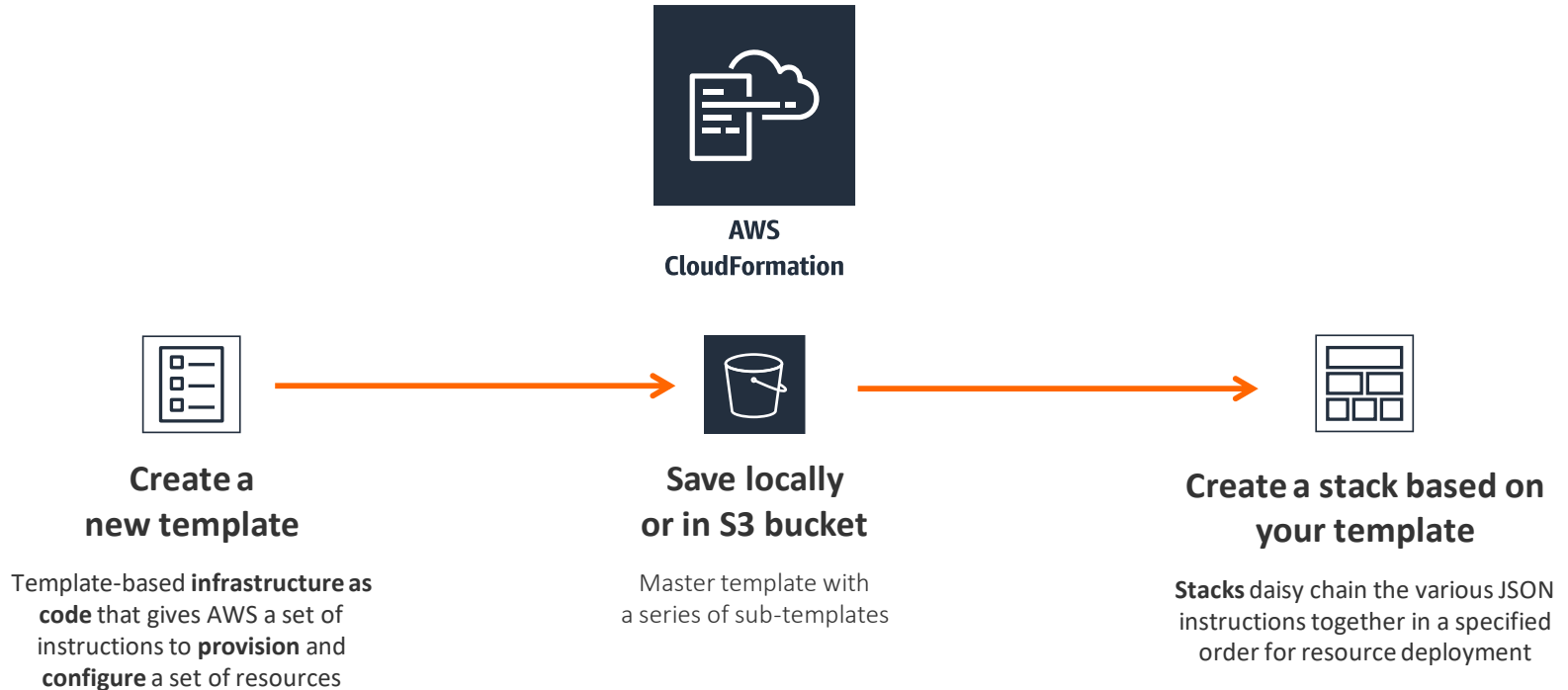
The information contained in this CloudFormation package is not exhaustive, and must be reviewed, evaluated, assessed, and approved by the customer in connection with the customer's particular security features, tools, and configurations.



# INSTALLING THE CLOUDFORMATION TEMPLATE

---

# WHAT IS CLOUDFORMATION AND HOW DOES IT WORK?



# HOW DOES CLOUDFORMATION WORK? – CREATING TEMPLATE

- Templates are JSON files (we have already created one for you!!)
- You can find the template link at <https://s3.amazonaws.com/armor-hipaa-qs/main.template>
- They describe a set of resources for AWS to go provision and any configurations to go with those resources
- For example, the template example to the right here provisions an EC2 Instance for the customer and asks them to specify the KeyPair to SSH into the instance as a parameter.

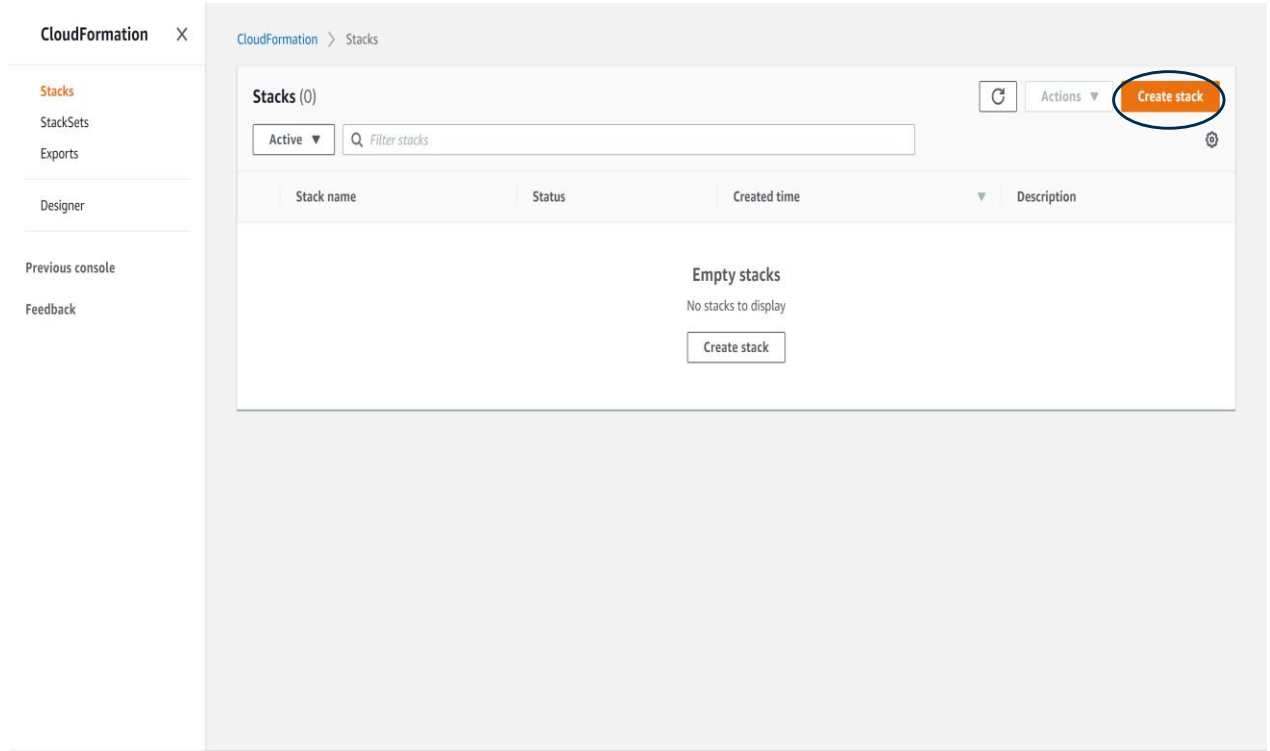
```
{
  "Description": "Create an EC2 instance running the Amazon Linux 32 bit AMI.",
  "Parameters": {
    "KeyPair": {
      "Description": "The EC2 Key Pair to allow SSH access to the instance",
      "Type": "String"
    }
  },
  "Resources": {
    "Ec2Instance": {
      "Type": "AWS::EC2::Instance",
      "Properties": {
        "KeyName": { "Ref": "KeyPair" },
        "ImageId": "ami-3b35a52"
      }
    }
  },
  "Outputs": {
    "InstanceId": {
      "Description": "The InstanceId of the newly created EC2 instance",
      "Value": { "Ref": "Ec2Instance" }
    }
  },
  "AWSTemplateFormatVersion": "2010-09-09"
}
```





# HOW DOES CLOUDFORMATION WORK? – CREATING STACK

First, sign into your AWS Console and navigate to the CloudFormation Service. Then click the **Create Stack** button.



# HOW DOES CLOUDFORMATION WORK? – SELECTING TEMPLATE

After you click Next, you will want to select the following Options: Template is ready, Amazon S3 URL, and enter the URL as shown here. You can then click **Next**.

The screenshot shows the 'Create stack' wizard in the AWS CloudFormation console. The breadcrumb navigation is 'CloudFormation > Stacks > Create stack'. The left sidebar shows the progress: Step 1 (Specify template), Step 2 (Specify stack details), Step 3 (Configure stack options), and Step 4 (Review). The main content area is titled 'Create stack' and is divided into two sections: 'Prerequisite - Prepare template' and 'Specify template'. In the 'Prerequisite' section, the 'Template is ready' radio button is selected. In the 'Specify template' section, the 'Amazon S3 URL' radio button is selected, and the 'Amazon S3 URL' text box contains the value 'https://s3.amazonaws.com/armor-hipaa-gs/main.template'. Below the text box, the 'S3 URL' is displayed as 'https://s3.amazonaws.com/armor-hipaa-gs/main.template'. At the bottom right, there are 'Cancel' and 'Next' buttons.

CloudFormation > Stacks > Create stack

Step 1  
Specify template

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review

## Create stack

### Prerequisite - Prepare template

Prepare template  
Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

Template is ready  Use a sample template  Create template in Designer

### Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source  
Selecting a template generates an Amazon S3 URL where it will be stored.

Amazon S3 URL  Upload a template file

Amazon S3 URL

Amazon S3 template URL  
S3 URL: https://s3.amazonaws.com/armor-hipaa-gs/main.template [View in Designer](#)

Cancel **Next**

# HOW DOES CLOUDFORMATION WORK? – PARAMETER CONFIGURATION

This next screen walks you through several Parameter configurations for this CloudFormation Template.

1. Choose your Stack Name. This can be any unique identifier that makes sense for your business.
2. Next, enter a DB password and notification email. This will be the email address by which you receive CloudWatch alerts and alarms.
3. If you have setup AWS Config in the region you've selected, then select True, otherwise select False.
4. Pick the Availability Zones you want this CloudFormation Template to be deployed in and failover to.
5. Enter your Armor License Key
  - a. If you are already an Armor client, you can find this in AMP.
  - b. If you are not an Armor client, please sign up on AWS marketplace first: [https://aws.amazon.com/marketplace/pp/B077XY8W1F?qid=1549982568302&sr=0-1&ref\\_=srh\\_res\\_product\\_title](https://aws.amazon.com/marketplace/pp/B077XY8W1F?qid=1549982568302&sr=0-1&ref_=srh_res_product_title)
6. The other parameters should be filled in by default for you!
7. Click **Next**

The screenshot shows the 'Specify stack details' step in the AWS CloudFormation console. The interface includes a breadcrumb trail 'CloudFormation > Stacks > Create stack' and a progress indicator with four steps: 'Specify template', 'Specify stack details' (current), 'Configure stack options', and 'Review'. The main form area is titled 'Specify stack details' and contains several sections:

- Stack name:** A text input field with a placeholder 'Enter a stack name' and a note: 'Stack name can include letters (A-Z and a-z), numbers (0-9), and dashes (-)'.
- Parameters:** A section titled 'Please provide the following parameter values:' containing:
  - Database Password:** A text input field with a note: 'Mixed alphanumeric and must be between 8 and 28 characters and contain at least one capital letter'.
  - Notification Email Address:** A text input field with a note: 'Notification email address for security events (you will receive a confirmation email)' and a placeholder 'diartist@example.org'.
  - Support Config:** A dropdown menu with a note: 'Is AWS Config Rules already configured for this region? Use "false" if you are uncertain. See AWS Config Management Console or Deployment Guide for details.' and a selected value of 'false'.
  - First Availability Zone:** A dropdown menu with a note: 'Availability Zone 1'.
  - Second Availability zone:** A dropdown menu with a note: 'Availability Zone 2'.
  - Armor account license key:** A text input field with a note: 'The Armor Anywhere agent requires a license key in order to register with our platform. Your license key can be found from the Armor Management Portal'.
- AWS Quick Start Configuration:** A section containing:
  - Quick Start S3 Bucket Name:** A text input field with a note: 'S3 bucket name for the Quick Start assets. Quick Start bucket name can include numbers, lowercase letters, uppercase letters, and hyphens (-). It cannot start or end with a hyphen (-)' and a placeholder 'aws-quickstart'.
  - Quick Start S3 Key Prefix:** A text input field with a note: 'S3 key prefix for the Quick Start assets. Quick Start key prefix can include numbers, lowercase letters, uppercase letters, hyphens (-), and forward slash (/)' and a placeholder 'quickstart-compliance-pci/'.
- Other parameters:** A dropdown menu with a note: 'Instance tenancy behavior for this VPC' and a selected value of 'default'.

At the bottom right of the form, there are three buttons: 'Cancel', 'Previous', and 'Next'.

# HOW DOES CLOUDFORMATION WORK? – TAGS AND PERMISSIONS

Add any tags you want to identify these resources on the next page. "Compliance, Armor, HIPAA" are all examples of tags you might possibly want to use. Next, identify any IAM permissions you want to grant this CloudFormation Template. Armor recommends granting administrative access IAM permissions to this template. However, if you'd like to only specify the exact IAM permissions needed, we can provide them. You can ignore the Advanced Stack options at the bottom of the page. Click **Next**.

CloudFormation > Stacks > Create stack

Step 1  
Specify template

Step 2  
Specify stack details

Step 3  
Configure stack options

Step 4  
Review

## Configure stack options

### Tags

You can specify tags (key-value pairs) to apply to resources in your stack. You can add up to 50 unique tags for each stack. [Learn more.](#)

Key Value Remove

Add tag

### Permissions

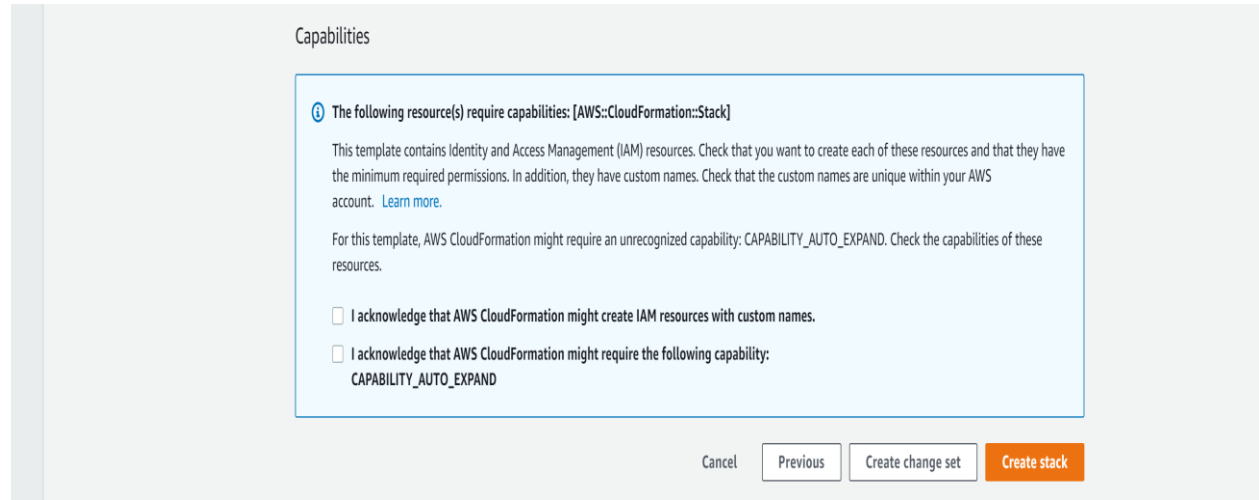
Choose an IAM role to explicitly define how CloudFormation can create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses permissions based on your user credentials. [Learn more.](#)

**IAM role - optional**  
Choose the IAM role for CloudFormation to use for all operations performed on the stack.

IAM role name Sample-role-name Remove

# HOW DOES CLOUDFORMATION WORK? – REVIEW AND DEPLOY

After you review your selections from the previous pages, you will need to acknowledge the CloudFormation permissions to do certain things. A) Create IAM roles and resources and B) auto-expand for scaling purposes. Click **Create Stack** to finish the process and you are done!



ARMOR

THANK YOU!

---

