



# 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!

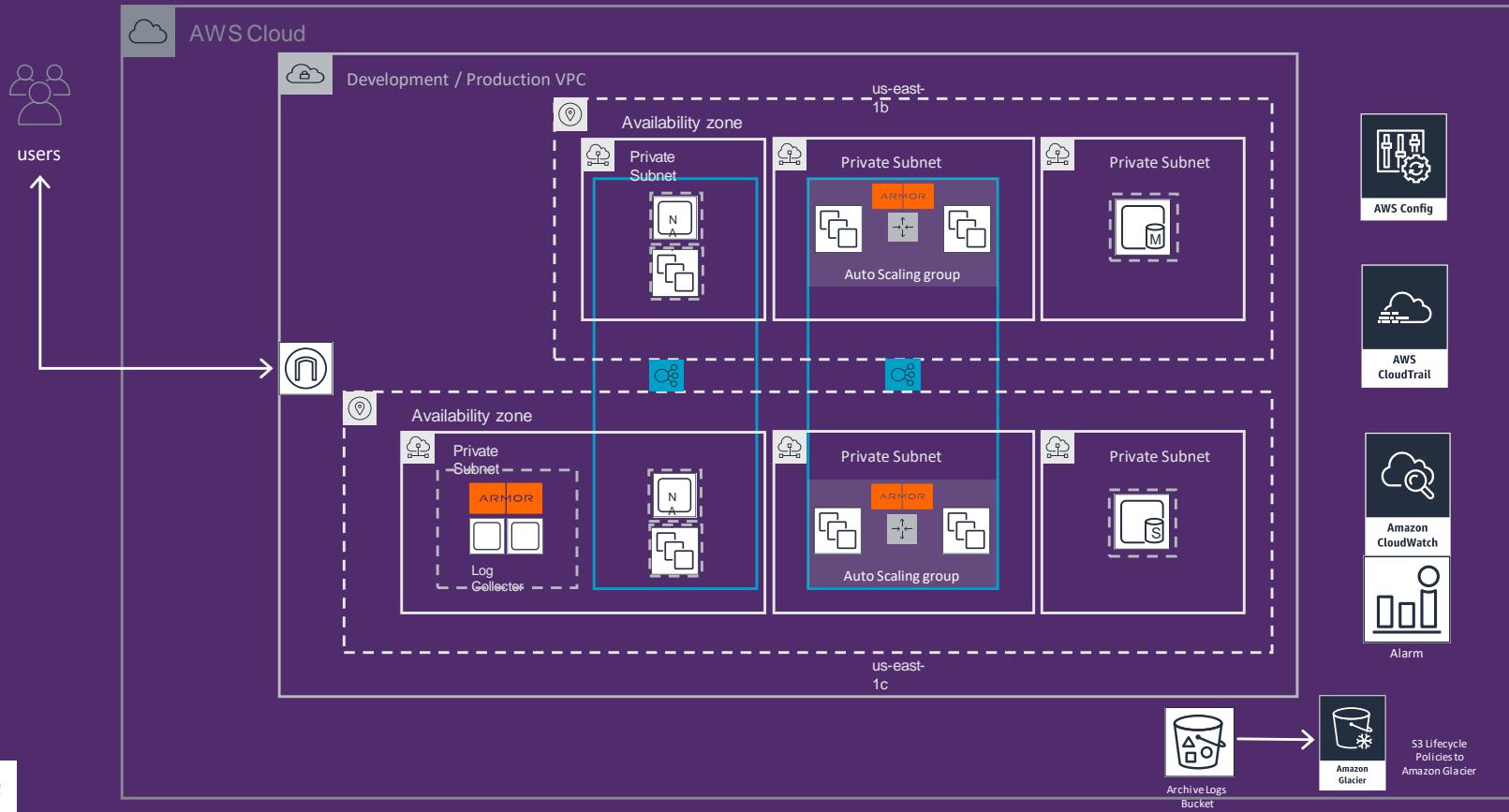
Cheers,

Your Armor Team

# ARMOR AUTOMATE COMPLIANCE – HIPAA (THE SOLUTION)

---

# ARMOR AUTOMATED COMPLIANCE

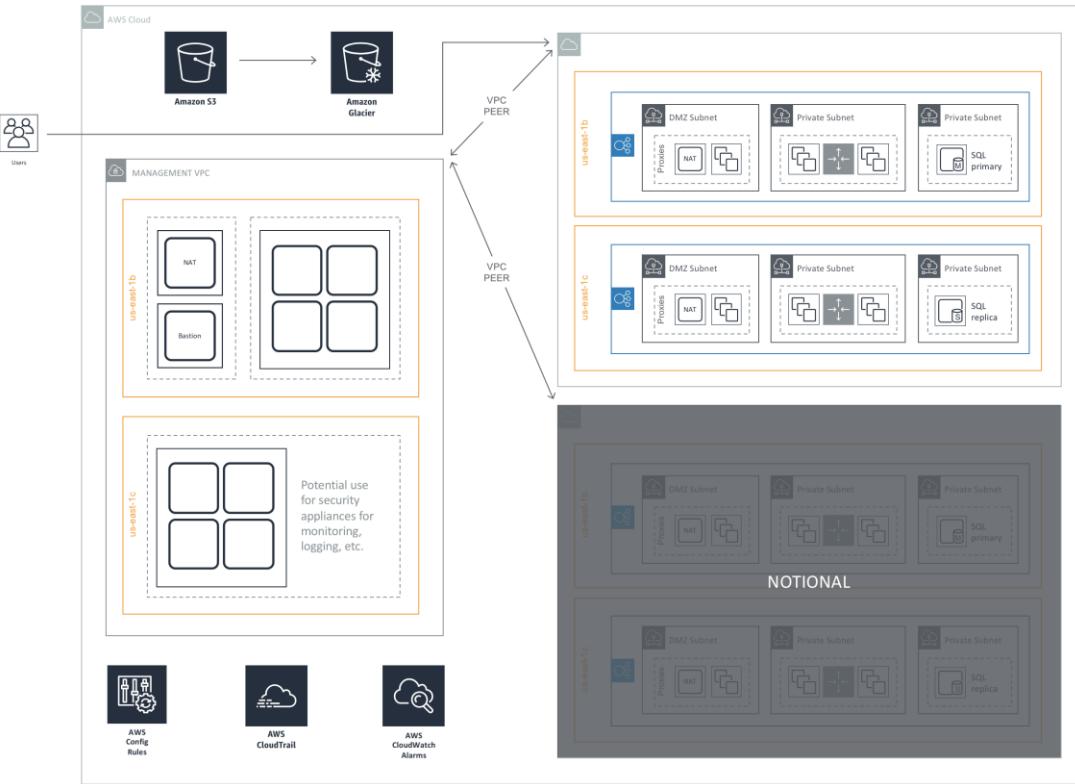


# WHAT DOES CFT FOR HIPAA COMPLIANCE ENTAIL?

## 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.

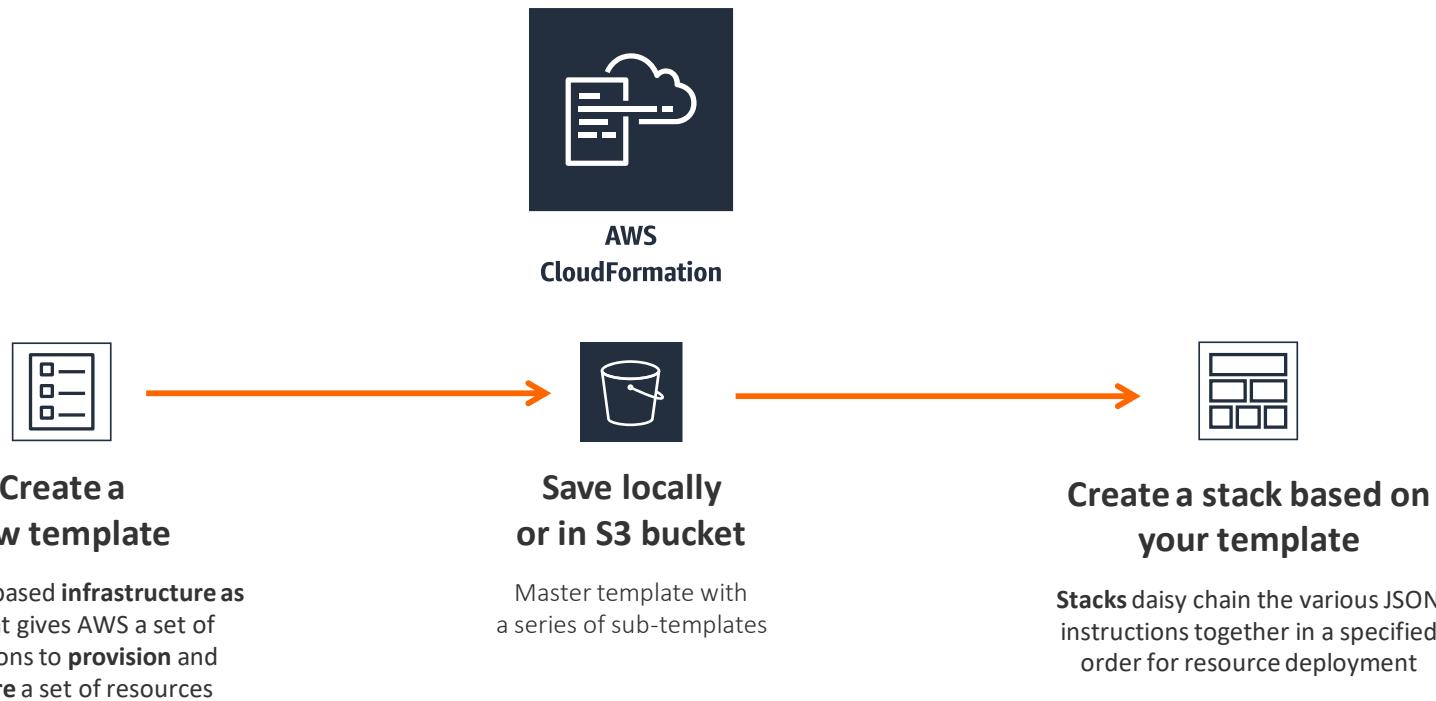
The information contained in this CloudFormation package is not exhaustive, and must be reviewed, evaluated, assessed, and approved by the customer in connection with the customer's particular security features, tools, and configurations.



# INSTALLING THE CLOUDFORMATION TEMPLATE

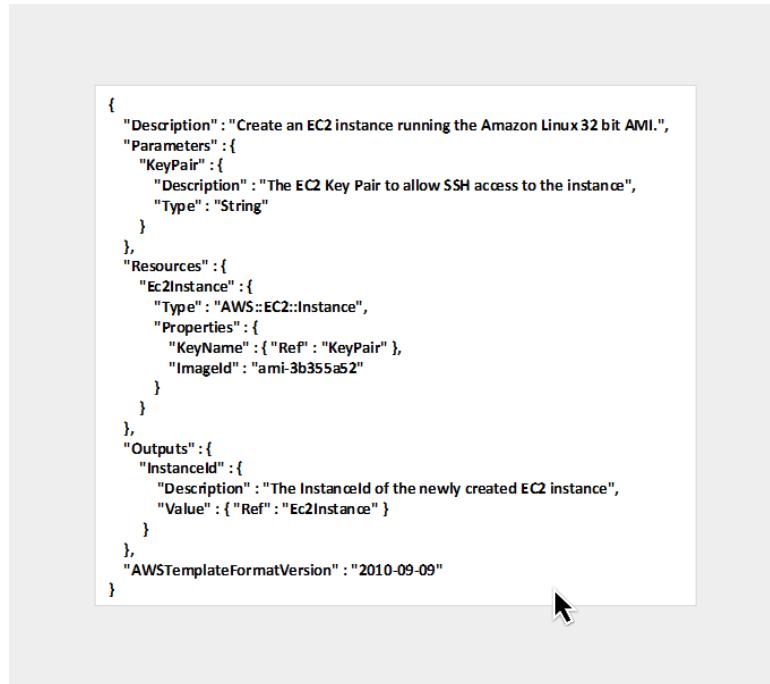
---

# 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.

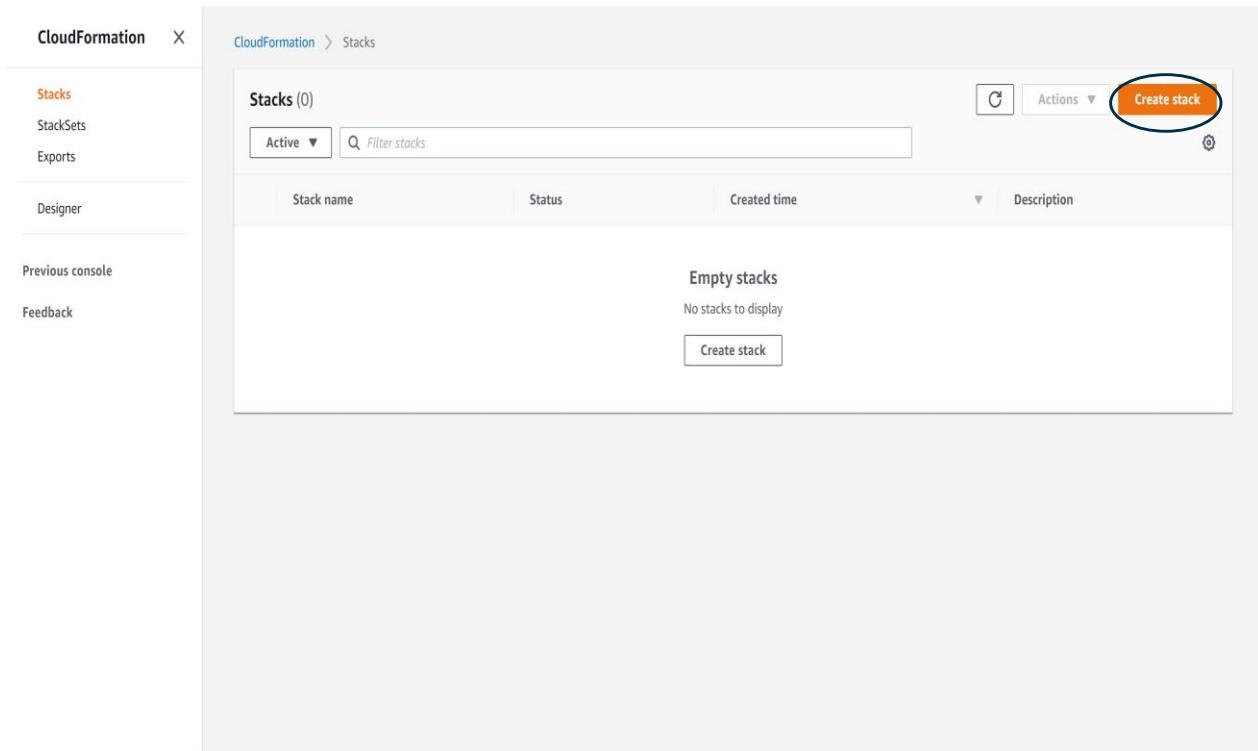


A screenshot of a computer screen showing a JSON code editor. The code is a CloudFormation template for provisioning an EC2 instance. It includes parameters for a key pair, resources for the EC2 instance with properties like type (AWS::EC2::Instance) and properties (KeyName and ImageId), and outputs for the instance ID. The template is versioned at 2010-09-09.

```
{  
  "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-3b355a52"  
      }  
    }  
  },  
  "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.



The screenshot shows the AWS CloudFormation service interface. On the left, there's a sidebar with options: Stacks (which is selected and highlighted in orange), StackSets, Exports, and Designer. Below the sidebar are links for Previous console and Feedback. The main content area is titled "CloudFormation > Stacks". It displays a table header for "Stacks (0)" with columns: Stack name, Status, Created time, and Description. A dropdown menu for "Active" is open. To the right of the table, there's a search bar labeled "Filter stacks". At the top right of the main area, there are "Actions" and a "Create stack" button, which is circled in orange. Below the table, a message says "Empty stacks" and "No stacks to display". A "Create stack" button is also present here.

# 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 left sidebar lists steps: Step 1 (Specify template, currently selected), Step 2 (Specify stack details), Step 3 (Configure stack options), and Step 4 (Review). The main area is titled 'Prerequisite - Prepare template' with a sub-section 'Prepare template'. It explains that every stack is based on a template, which is a JSON or YAML file containing configuration information about the AWS resources. Three radio buttons are present: 'Template is ready' (selected), 'Use a sample template', and 'Create template in Designer'. Below this is the 'Specify template' section, which describes a template as a JSON or YAML file describing stack resources and properties. The 'Template source' section allows selecting a template from an Amazon S3 URL or uploading a local file. A radio button for 'Amazon S3 URL' is selected, and the URL <https://s3.amazonaws.com/armor-hipaa-qs/main.template> is entered into the input field. The URL is also displayed below the input field. At the bottom right are 'View in Designer' and 'Next' buttons, with 'Cancel' at the bottom center.

# 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?gid=1549982568302&sr=0-1&ref=srh\\_res\\_product\\_title](https://aws.amazon.com/marketplace/pp/B077XY8W1F?gid=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 of the CloudFormation wizard. The left sidebar lists steps: Step 1 (Specify template), Step 2 (Specify stack details - currently active), Step 3 (Configure stack options), and Step 4 (Review). The main area is titled 'Specify stack details' and contains two sections: 'Stack name' and 'Parameters'.

**Stack name:** A text input field labeled 'Enter a stack name' with placeholder text '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 several input fields:

- Database Password:** A text input field with placeholder text '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 placeholder text 'Notification email address for security events (you will receive a confirmation email)' and value 'distlist@example.org'.
- Support Config:** A dropdown menu set to 'false' with a note about AWS Config Rules.
- First Availability Zone:** A dropdown menu set to 'Availability Zone 1'.
- Second Availability zone:** A dropdown menu set to 'Availability Zone 2'.
- Armor account license key:** A text input field with placeholder text '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' and value 'aws-quicstart'.
- AWS Quick Start Configuration:** A section with a dropdown menu set to 'aws-quicstart'.
- Quick Start S3 Bucket Name:** A text input field with placeholder text 'S3 bucket name for the Quick Start assets. Quick Start bucket name can include numbers, lowercase letters, uppercase letters, hyphens (-), and forward slash (/)' and value 'quickstart-compliance-pci'.
- Other parameters:** A section with a dropdown menu set to 'default'.

At the bottom right are 'Cancel', 'Previous', and 'Next' buttons.

# 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**.

The screenshot shows the AWS CloudFormation 'Create stack' wizard at Step 3: Configure stack options. On the left, a sidebar lists steps: Step 1 (Specify template), Step 2 (Specify stack details), Step 3 (Configure stack options, currently selected), and Step 4 (Review). The main area is titled '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
Name	Sample-role-name	

[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!

The screenshot shows the 'Review and Deploy' step of the AWS CloudFormation wizard. The 'Capabilities' section is highlighted, displaying a note about required IAM resources and two checkboxes for acknowledging permissions.

**Capabilities**

**ⓘ The following resource(s) require capabilities: [AWS::CloudFormation::Stack]**

This template contains Identity and Access Management (IAM) resources. Check that you want to create each of these resources and that they have the minimum required permissions. In addition, they have custom names. Check that the custom names are unique within your AWS account. [Learn more](#).

For this template, AWS CloudFormation might require an unrecognized capability: CAPABILITY\_AUTO\_EXPAND. Check the capabilities of these resources.

I acknowledge that AWS CloudFormation might create IAM resources with custom names.

I acknowledge that AWS CloudFormation might require the following capability:  
CAPABILITY\_AUTO\_EXPAND

Cancel Previous Create change set **Create stack**



# THANK YOU!

---

