

# Creating the BCT Cloud Tools Role with CloudFormation

Overview: This document will walk you through creating a stack with our supplied BCTCloudToolsRole template in CloudFormation. so that we may gain access to run our tools within your account. Each policy attached to the roles have the least amount of permissions required for that specific tool to run correctly.

1) Start by login into your AWS account's console for the account you are providing access for. **Under services > Management Tools** select **CloudFormation**

## AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).

### Recently visited services



CloudFormation



IAM



EC2



Support



Cost Explorer

### All services



Compute

EC2

EC2 Container Service

Lightsail

Elastic Beanstalk

Lambda

Batch



Developer Tools

CodeStar

CodeCommit

CodeBuild

CodeDeploy

CodePipeline

X-Ray



Internet of Things

AWS IoT

AWS Greengrass



Contact Center

Amazon Connect



Storage

S3

EFS

Glacier

Storage Gateway



Management Tools

CloudWatch

CloudFormation

CloudTrail

Config

OpsWorks

Service Catalog

Trusted Advisor

Managed Services



Game Development

Amazon GameLift



Mobile Services

Mobile Hub

Cognito

Device Farm

Mobile Analytics

Pinpoint

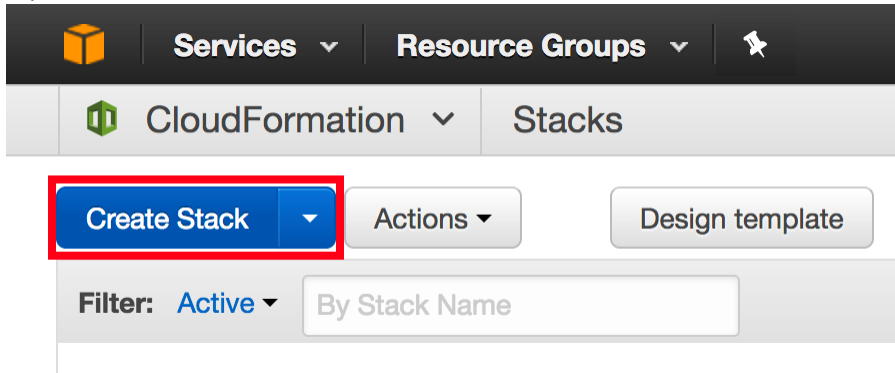


Database

RDS

DynamoDB

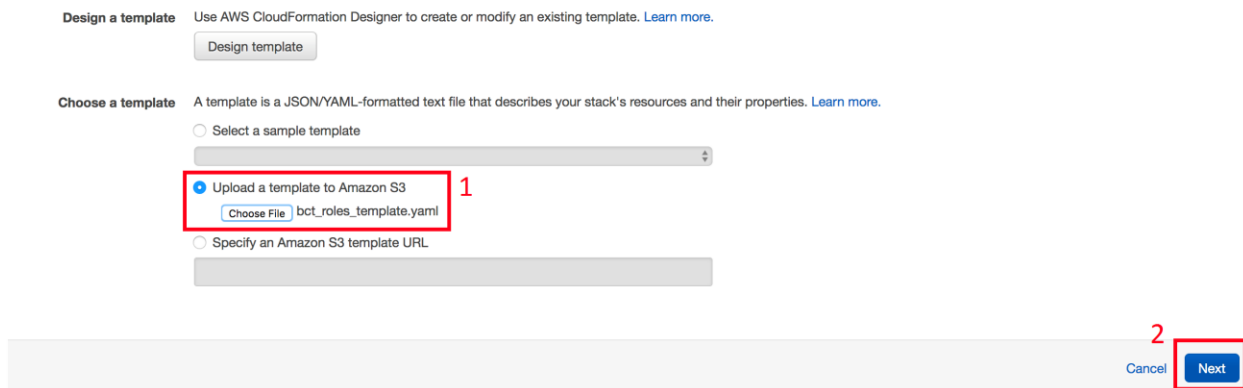
2) Next select **Create Stack**



3) Under “upload a template to Amazon S3” click **Choose File**, select provided **bct\_roles\_template.yaml** and click **next** in the bottom left.

Select Template

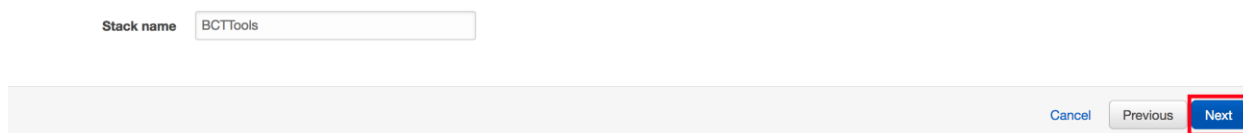
Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.



4) Give your stack a memorable name, we selected BCTTools and click **next**.

Specify Details

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more.](#)



5) Leave this section blank, and click **next**.

#### Options

#### Tags

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

	Key (127 characters maximum)	Value (255 characters maximum)	
1	<input type="text"/>	<input type="text"/>	<input style="float: right;" type="button" value="+"/>

#### Permissions

You can choose an IAM role that CloudFormation uses to create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses the permissions defined in your account. [Learn more.](#)

**IAM Role**

Enter role arn

#### Advanced

You can set additional options for your stack, like notification options and a stack policy. [Learn more.](#)

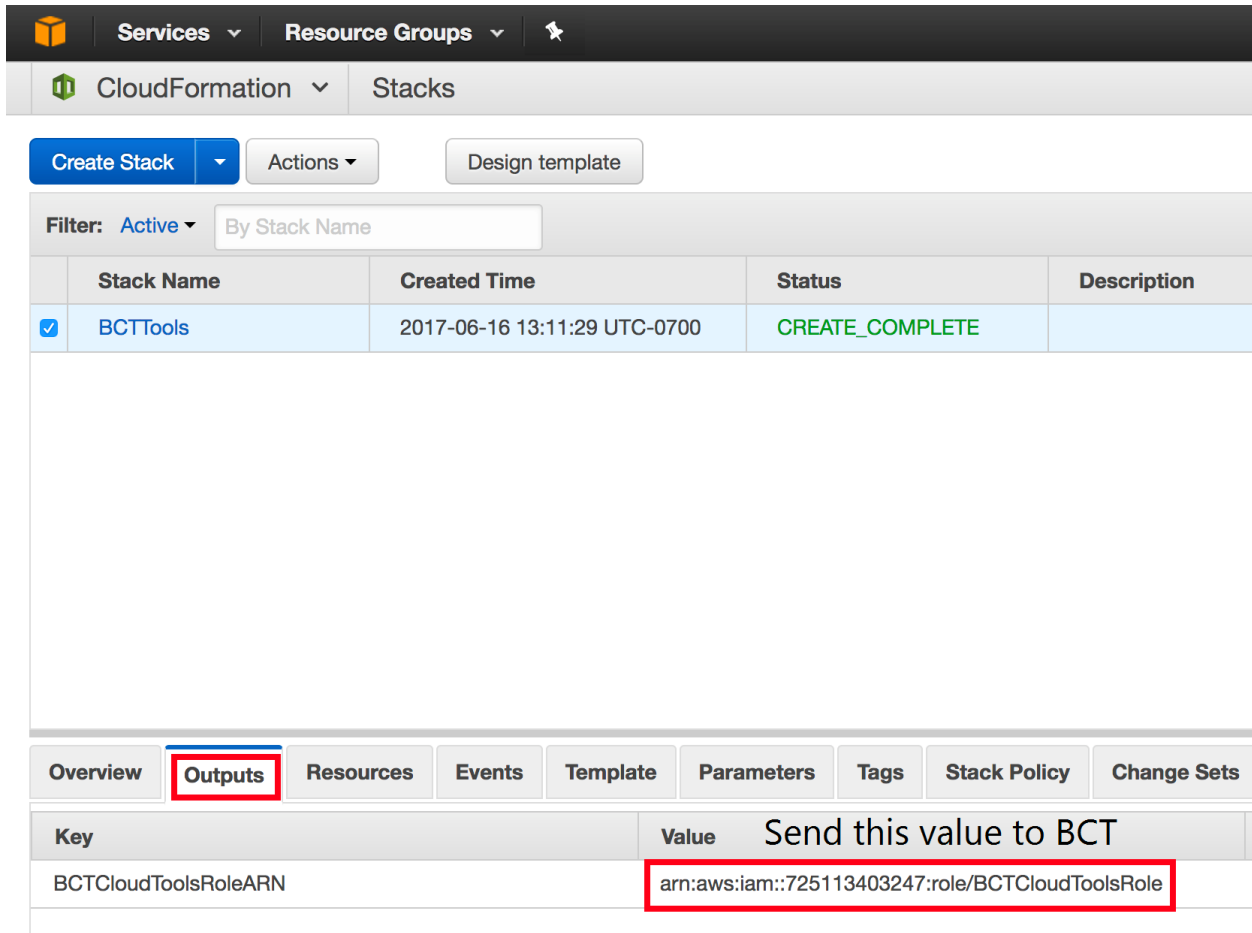
6) Check the **I acknowledge** prompt near the bottom of the page and click **next**.

#### Capabilities

**i** The following resource(s) require capabilities: [AWS::IAM::Policy, AWS::IAM::Role]  
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.](#)

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

7) Click the **Outputs** tab, and copy and paste the BCTCloudToolsRoleArn **Value** field and please e-mail it to [BCT-Cloud@bluechiptek.com](mailto:BCT-Cloud@bluechiptek.com).  
Repeat steps 1-7 in each account you would like us to run our tools in.



The screenshot shows the AWS CloudFormation console interface. At the top, there are navigation tabs for 'Services', 'Resource Groups', and a search icon. Below this, the breadcrumb navigation shows 'CloudFormation' and 'Stacks'. The main area contains a 'Create Stack' button, an 'Actions' dropdown, and a 'Design template' button. A filter section shows 'Filter: Active' and a search box 'By Stack Name'. A table lists the stacks, with one entry for 'BCTTools' having a status of 'CREATE\_COMPLETE'. At the bottom, the 'Outputs' tab is selected, showing a table with one output: 'BCTCloudToolsRoleARN' with the value 'arn:aws:iam::725113403247:role/BCTCloudToolsRole'. The 'Outputs' tab and the value field are highlighted with red boxes.

Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/> BCTTools	2017-06-16 13:11:29 UTC-0700	CREATE_COMPLETE	

Key	Value
BCTCloudToolsRoleARN	arn:aws:iam::725113403247:role/BCTCloudToolsRole