



CREATE THE CONTROL

What are we going to do?

We are going to perform the following steps:

- define a product with a version and a portfolio in a hub account
- add the source code for the product
- provision that product into a spoke account

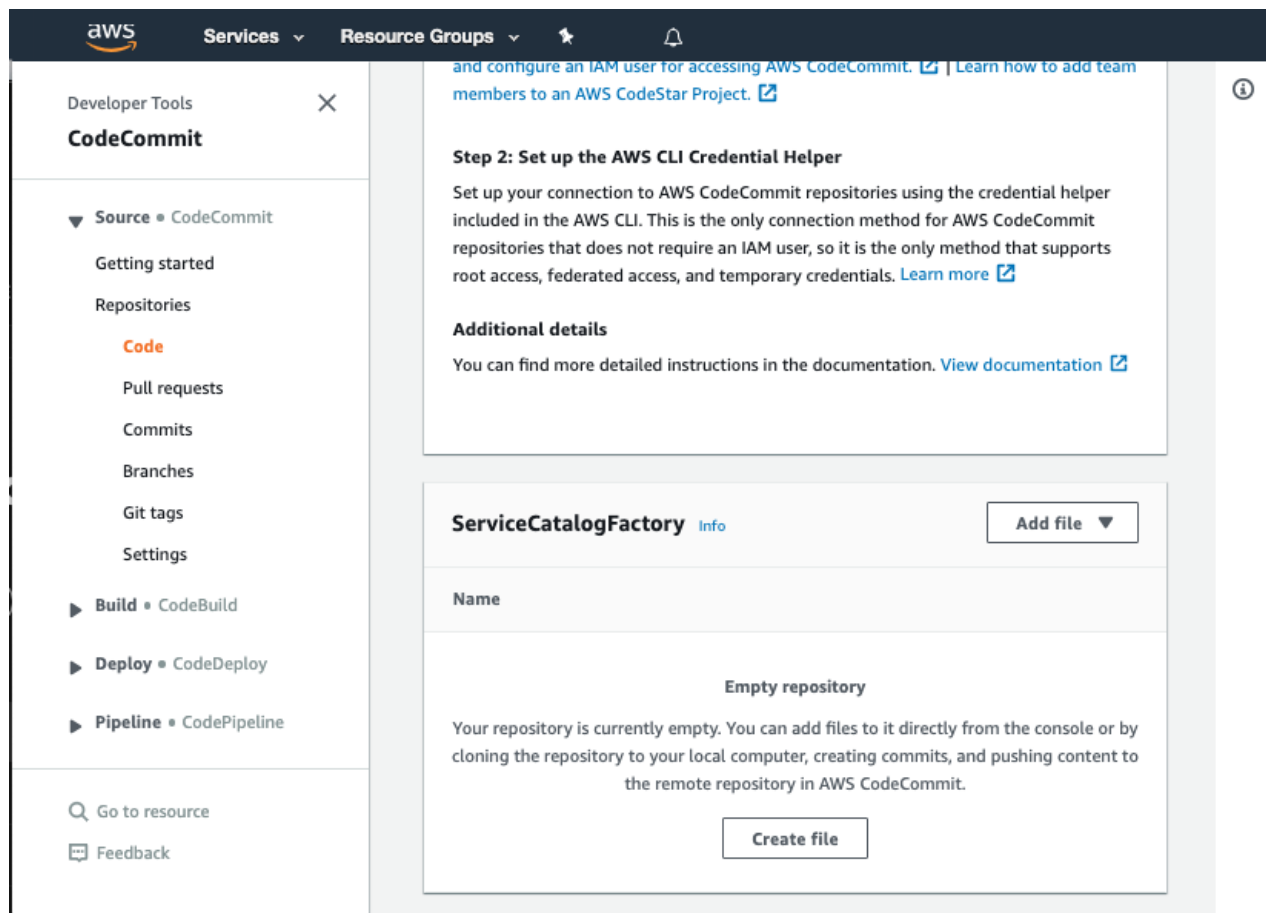
The hub AWS Account is the source of truth for our AWS Service Catalog products. Spoke AWS accounts are consumers of these products, you can think of them as accounts that need governance controls applied. For this workshop, we are using the same account as both the hub and spoke for simplicity; in a multi-account setup, these could be separate AWS Accounts and Regions.

Step by step guide

Here are the steps you need to follow to “Create the control”

Define a product with a version and a portfolio

- Navigate to the [ServiceCatalogFactory CodeCommit repository](#)
- Scroll down to the bottom of the page and hit the *Create file* button



- Copy the following snippet into the main input field:

```
Schema: factory-2019-04-01
Products:
  - Name: "aws-config-desired-instance-types"
    Owner: "budget-and-cost-governance@example.com"
    Description: "Enables AWS Config rule - desired-instance-type
with our RIs"
    Distributor: "cloud-engineering"
    SupportDescription: "Speak to budget-and-cost-
governance@example.com about exceptions and speak to cloud-
engineering@example.com about implementation issues"
    SupportEmail: "cloud-engineering@example.com"
    SupportUrl: "https://wiki.example.com/cloud-
engineering/budget-and-cost-governance/aws-config-desired-
instance-types"
    Tags:
      - Key: "type"
        Value: "governance"
      - Key: "creator"
        Value: "cloud-engineering"
      - Key: "cost-center"
        Value: "governance"
    Versions:
      - Name: "v1"
```

```
Description: "v1 of aws-config-desired-instance-types"
Active: True
Source:
  Provider: "CodeCommit"
  Configuration:
    RepositoryName: "aws-config-desired-instance-types"
    BranchName: "master"
Portfolios:
  - "cloud-engineering-governance"
Portfolios:
  - DisplayName: "cloud-engineering-governance"
    Description: "Portfolio containing the products needed to
govern AWS accounts"
    ProviderName: "cloud-engineering"
    Associations:
      - "arn:aws:iam::${AWS::AccountId}:role/TeamRole"
    Tags:
      - Key: "type"
        Value: "governance"
      - Key: "creator"
        Value: "cloud-engineering"
      - Key: "cost-center"
        Value: "governance"
```

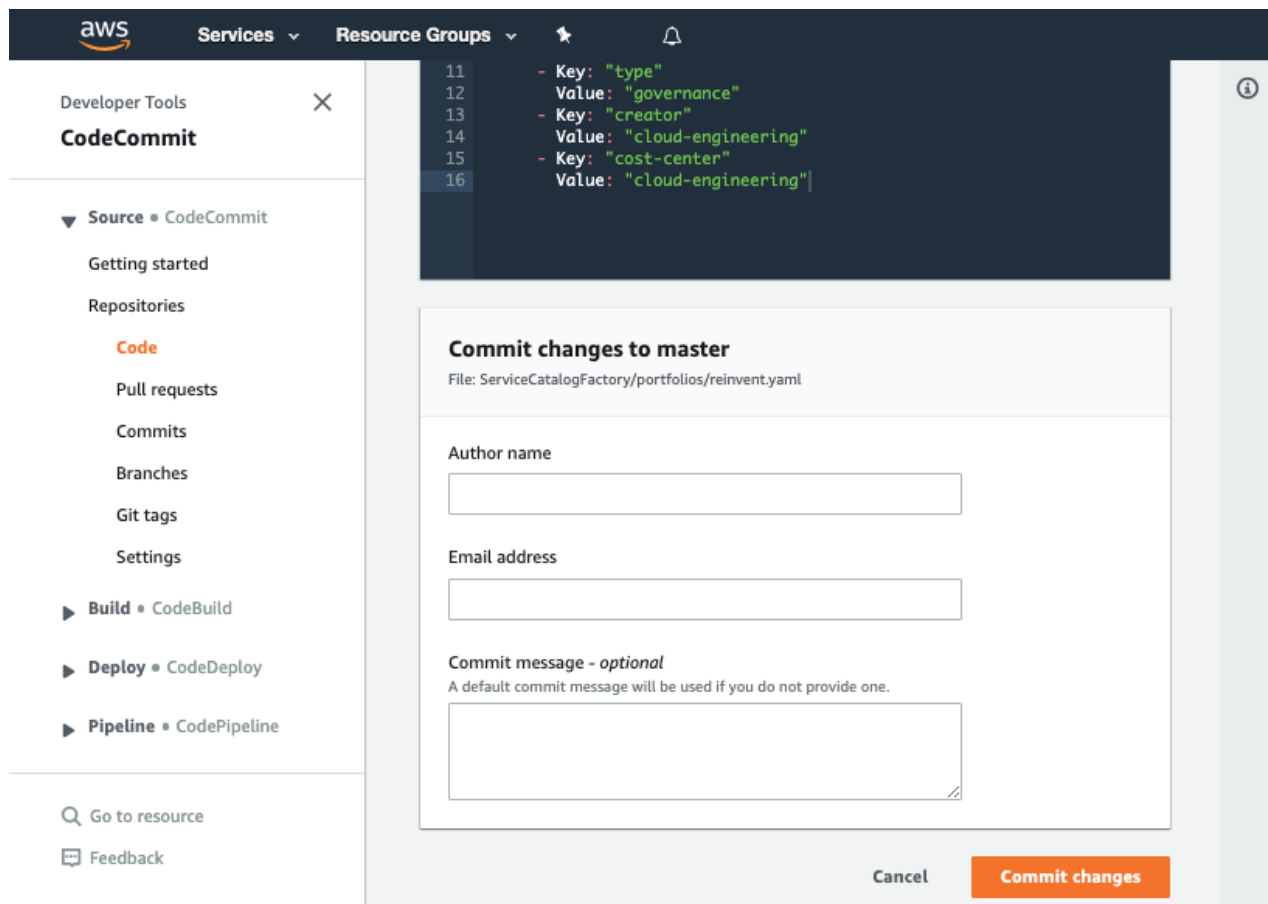
- Set the *File name* to `portfolios/reinvent.yaml`
- Set your *Author name*
- Set your *Email address*
- Set your *Commit message*



Tip

Using a good / unique commit message will help you understand what is going on later.

- Click the *Commit changes* button:



What did we just do?

The YAML file we created in the CodeCommit repository told the framework to perform several actions:

- create a product named *aws-config-desired-instance-types*
- add a *v1* of our product
- create a portfolio named *cloud-engineering-governance*
- add the product: *aws-config-desired-instance-types* to the portfolio: *cloud-engineering-governance*

Verify the change worked

Once you have made your changes the [ServiceCatalogFactory Pipeline](#) should have run. If you were very quick in making the change, the pipeline may still be running. If it has not yet started feel free to hit the *Release change* button.

Once it has completed it should show the *Source* and *Build* stages in green to indicate they have completed successfully:

The screenshot shows the AWS Service Catalog console interface. On the left, the 'Developer Tools' section is expanded, showing 'CodePipeline'. The main content area displays the 'Source' and 'Build' stages of a pipeline. The 'Source' stage is using 'CodeCommit' and has a 'Succeeded' status. The 'Build' stage is using 'CodeBuild' and has a 'Succeeded' status. A 'Disable transition' button is visible between the stages.

Note

If this is failing please raise your hand for some assistance

Add the source code for our product

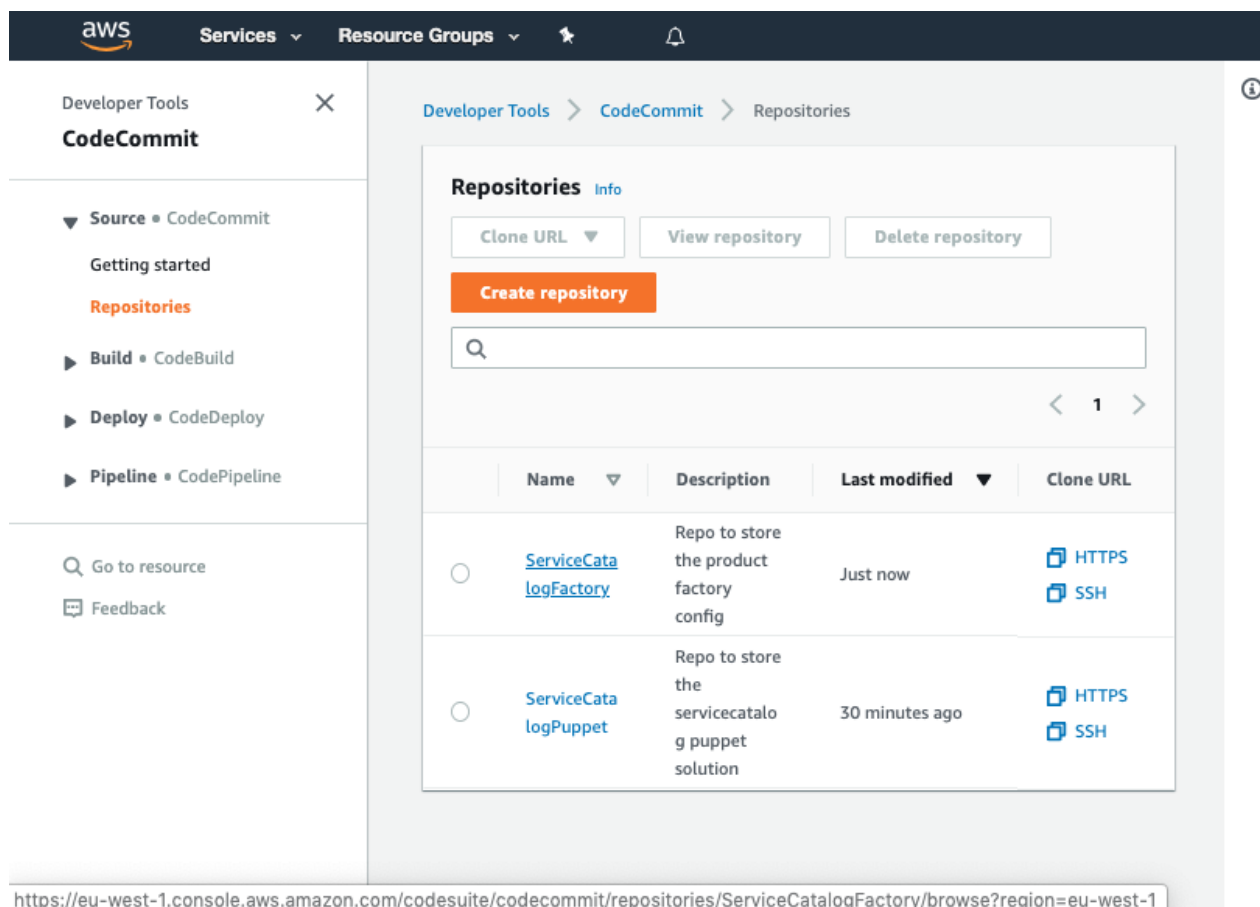
When you configured your product version, you specified the following version:

```
Versions:
- Name: "v1"
  Description: "v1 of aws-config-desired-instance-types"
  Active: True
  Source:
    Provider: "CodeCommit"
    Configuration:
      RepositoryName: "aws-config-desired-instance-types"
      BranchName: "master"
```

This tells the framework the source code for the product comes from the *master* branch of a *CodeCommit* repository of the name *aws-config-desired-instance-types*.

We now need to create the CodeCommit repository and add the AWS CloudFormation template we are going to use for our product.

- Navigate to [AWS CodeCommit](#)
- Click *Create repository*



- Input the name `aws-config-desired-instance-types`

The screenshot shows the AWS IAM console interface for creating a repository. At the top, the navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a search icon. The breadcrumb trail is 'Developer Tools > CodeCommit > Repositories > Create repository'. The main heading is 'Create repository'. Below it, a paragraph states: 'Create a secure repository to store and share your code. Begin by typing a repository name and a description for your repository. Repository names are included in the URLs for that repository.' The 'Repository settings' section contains a 'Repository name' text box with a note '100 characters maximum. Other limits apply.' and a 'Description - optional' text area with a note '1,000 characters maximum'. An 'Add tag' button is located below the description field. At the bottom right, there are 'Cancel' and 'Create' buttons.

aws Services Resource Groups

Developer Tools > CodeCommit > Repositories > Create repository

Create repository

Create a secure repository to store and share your code. Begin by typing a repository name and a description for your repository. Repository names are included in the URLs for that repository.

Repository settings

Repository name

100 characters maximum. Other limits apply.

Description - *optional*

1,000 characters maximum

Add tag

Cancel Create

- Click *Create*

aws Services Resource Groups

Developer Tools > CodeCommit > Repositories > Create repository

Create repository

Create a secure repository to store and share your code. Begin by typing a repository name and a description for your repository. Repository names are included in the URLs for that repository.

Repository settings

Repository name

100 characters maximum. Other limits apply.

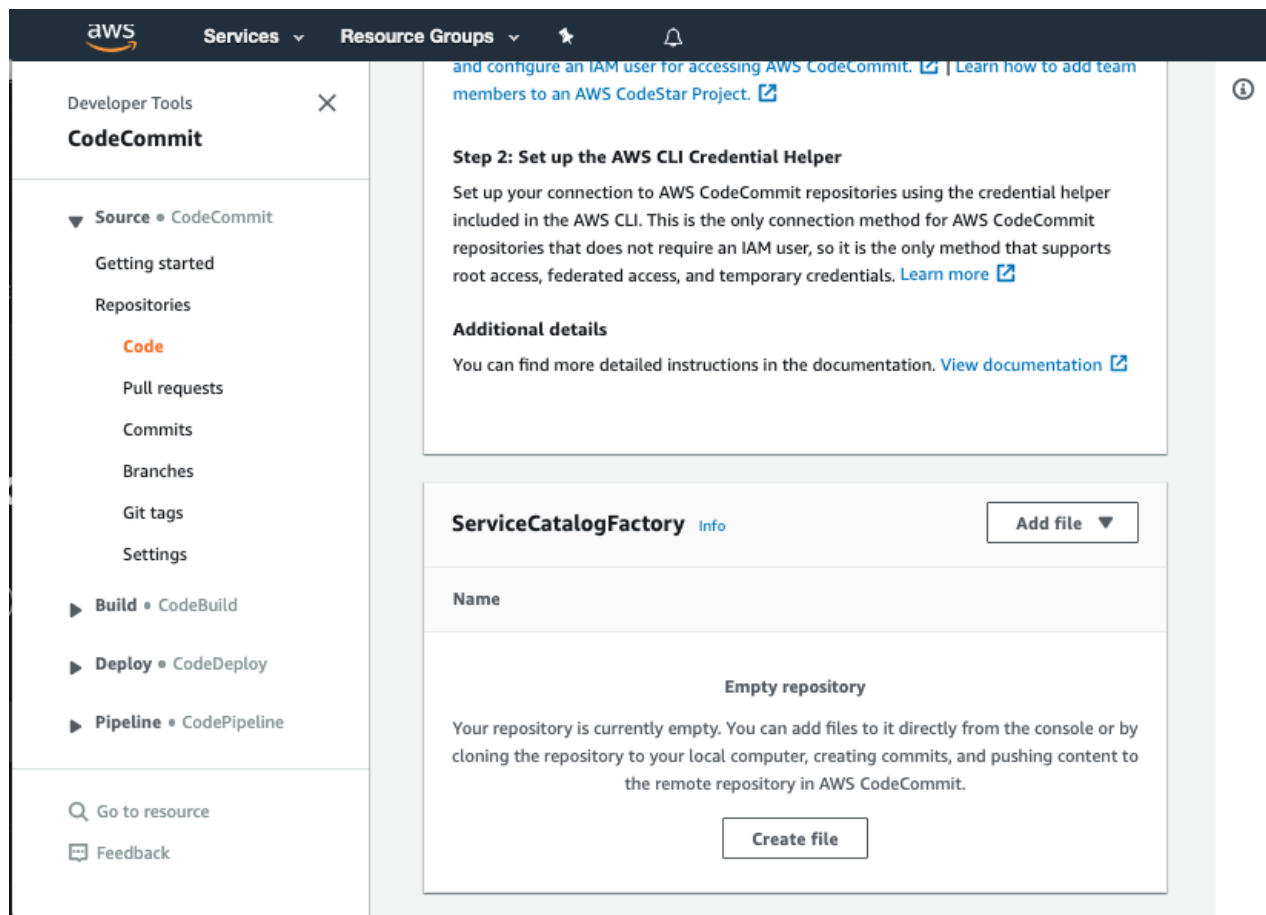
Description - *optional*

1,000 characters maximum

Add tag

Cancel Create

- Scroll down to the bottom of the page and hit the *Create file* button



- Copy the following snippet into the main input field:

```
AWSTemplateFormatVersion: "2010-09-09"
Description: "Create an AWS Config rule ensuring the given
instance types are the only instance types used"

Parameters:
  InstanceType:
    Type: String
    Description: "Comma separated list of EC2 instance types (for
example, 't2.small, m4.large')."
    Default: "t2.micro, t2.small"

Resources:
  AWSConfigRule:
    Type: AWS::Config::ConfigRule
    Properties:
      ConfigRuleName: "desired-instance-type"
      Description: "Checks whether your EC2 instances are of the
specified instance types."
      InputParameters:
        instanceType: !Ref InstanceType
      Scope:
        ComplianceResourceTypes:
          - "AWS::EC2::Instance"
```

Source:
Owner: AWS
SourceIdentifier: DESIRED_INSTANCE_TYPE

- Set the *File name* to `product.template.yaml`
- Set your *Author name*
- Set your *Email address*
- Set your *Commit message*



Using a good / unique commit message will help you understand what is going on later.

Creating that file should trigger your [aws-config-desired-instance-types-v1-pipeline](#).

Once the pipeline has completed it should show the *Source*, *Tests*, *Package* and *Deploy* stages in green to indicate they have completed successfully:

The screenshot displays the AWS CodePipeline console interface. On the left, a sidebar shows the navigation menu with 'Developer Tools' and 'CodePipeline' selected. The main area shows a pipeline named 'CodePipeline' with a status of 'Succeeded'. The pipeline consists of two stages: 'Package' and 'Deploy'. The 'Package' stage is highlighted with a green checkmark and shows a successful build using 'AWS CodeBuild'. The 'Deploy' stage is also highlighted with a green checkmark and shows a successful deployment using 'AWS Service Catalog'. A 'Disable transition' button is visible between the two stages. The right sidebar shows a vertical list of four green checkmarks, indicating the success of the pipeline run.

Tip

You should see your commit message on this screen, it will help you know which version of ServiceCatalogFactory repository the pipeline is processing.

Note

If this is failing please raise your hand for some assistance

Once you have verified the pipeline has run you can go to [Service Catalog products](#) to view your newly created version.

You should see the product you created listed:

The screenshot displays the AWS Service Catalog administrator console. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a search icon. Below this, the 'aws service catalog' header is visible. A left-hand navigation menu lists various sections: Products, Provisioned Products, Administration (expanded), Products (highlighted), Portfolios, TagOptions Library, Service Actions, Preferences, and Your Marketplace Software. The main content area is titled 'Admin - Product List' with an 'Info' link. It features a 'Products (1)' header with a refresh button and an 'Actions' dropdown. An orange 'Upload new product' button is also present. A search bar labeled 'Search product' is provided. Below the search bar, there's a pagination control showing '1' of 1 items. A table with headers 'Product name', 'Created', 'Vendor', and 'Description' is shown, but it is currently empty. A message 'Your product should appear here' is displayed within the table area. A blue notification banner at the top of the main content area informs about a redesign of the administrator console and the launch of the 'Budget Visibility' feature. The footer contains a 'Feedback' link, 'English (US)' language selection, and copyright information for Amazon Web Services, Inc. (2008-2019).

Click on the product and verify v1 is there

The screenshot shows the AWS Service Catalog console. The left sidebar contains navigation links: Products, Provisioned Products, Administration, Products (highlighted), Portfolios, TagOptions Library, Service Actions, Preferences, and Your Marketplace Software. The top navigation bar includes the AWS logo, Services, Resource Groups, and a search icon. The main content area is titled 'Support Details' and shows 'Versions (2)', 'Portfolios (0)', 'Tags (5)', and 'TagOptions (0)'. The 'Product version(s) (2)' section includes a 'Create new version' button and an 'Actions' dropdown. Below this is a search bar and a table of product versions.

	Name	Status	Created time	Description
<input type="radio"/>	v1	Active	Wed, Oct 16, 2019, 10:43:19 AM GMT+1	
<input type="radio"/>	-	Active	Wed, Oct 16, 2019, 10:33:32 AM GMT+1	Placeholder version, do not provision

The footer contains a Feedback button, English (US) language selection, and copyright information: © 2008 - 2019, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy and Terms of Use links are also present.

Note

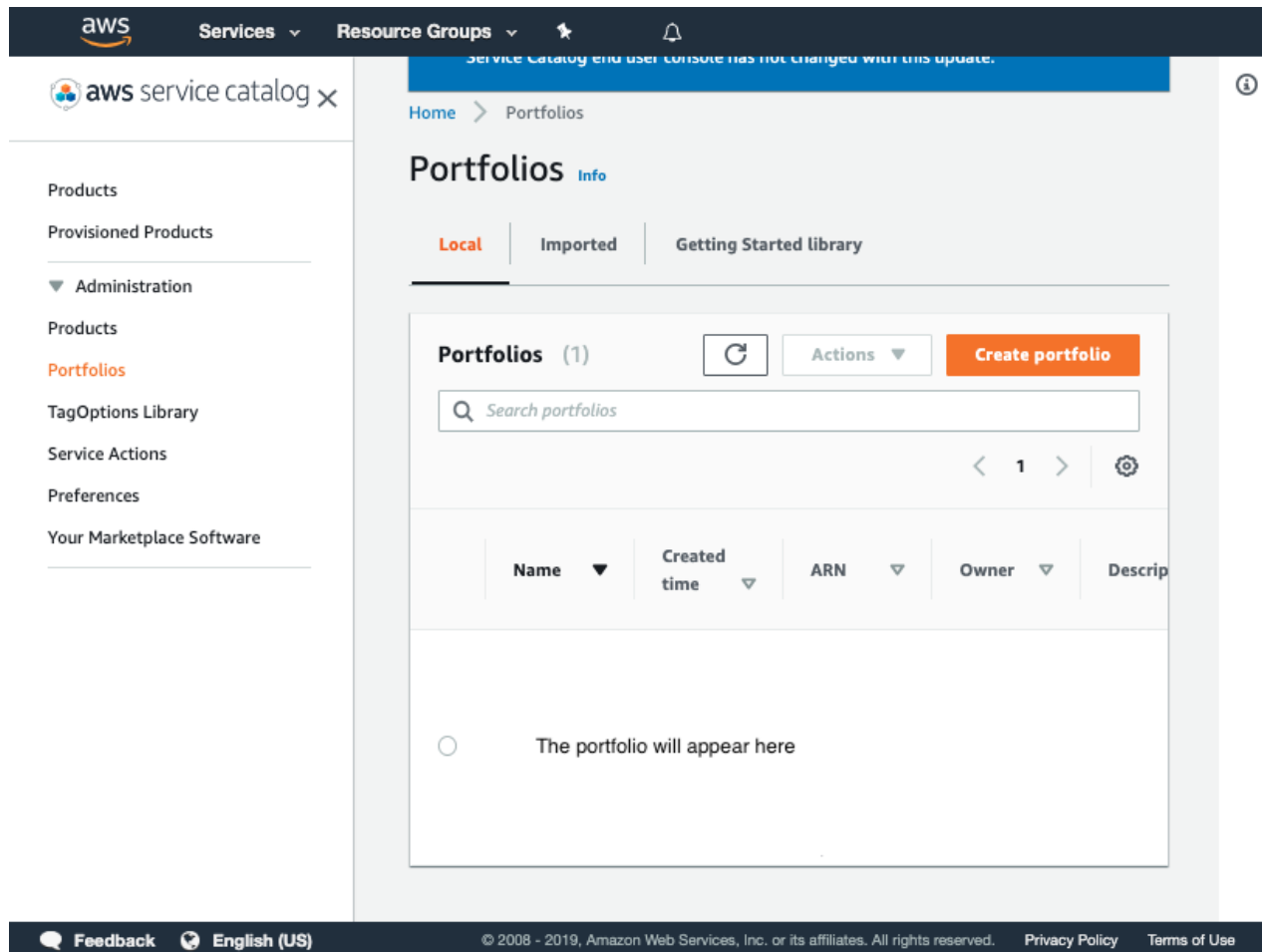
If you cannot see your version please raise your hand for some assistance

You have now successfully created a version for your product!

Verify the product was added to the portfolio

Now that you have verified the pipeline has run you can go to [Service Catalog portfolios](#) to view your portfolio.

- Click on *reinvent-cloud-engineering-governance*



- Click on the product *aws-config-desired-instance-types*
- Click on the version *v1*

aws

Services

Resource Groups

aws service catalog

Products

Provisioned Products

Administration

Products

Portfolios

TagOptions Library

Service Actions

Preferences

Your Marketplace Software

Support Details

Versions (2)

Portfolios (1)

Tags (5)

TagOptions (0)

Product version(s) (2)

Create new version

Actions

Search Product version(s)

< 1 >

	Name	Status	Created time	Description
	-	Active	Wed, Oct 16, 2019, 10:33:32 AM GMT+1	Placeholder version, do not provision
	v1	Active	Wed, Oct 16, 2019, 10:43:19 AM GMT+1	

Feedback

English (US)

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