

Building a Lead Form with HTML and S3



Thomas Compagno

VP OF TECHNOLOGY

@tomcompagno www.linkedin.com/in/tomcompagno



Module Overview



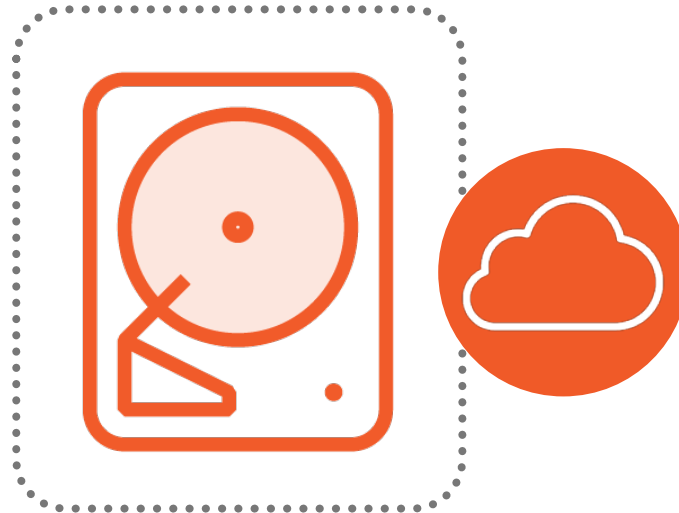
Review S3 and our HTML form needs

Demonstration

Summary



This Module's Supporting Amazon Service



Simple Storage Service

S3 is a hard drive in the cloud, with plenty of supporting features



Demo



Configure a temporary API

Code an HTML form

Configure our S3 bucket

Upload our files

Validate our new form is accessible



Create API

leads-distribution

pl-test

No description.

No description.

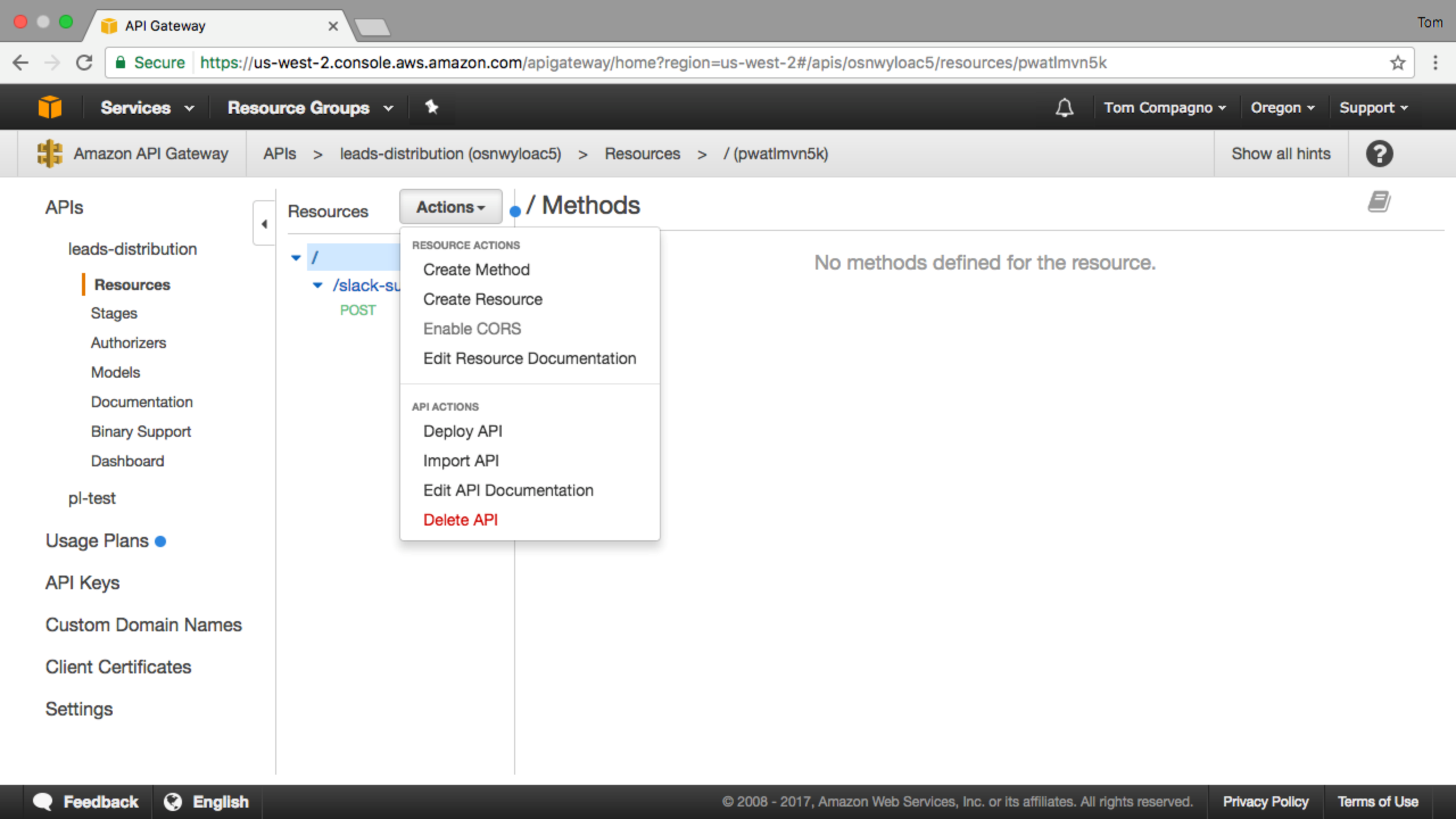
Usage Plans 

API Keys

Custom Domain Names

Client Certificates

Settings



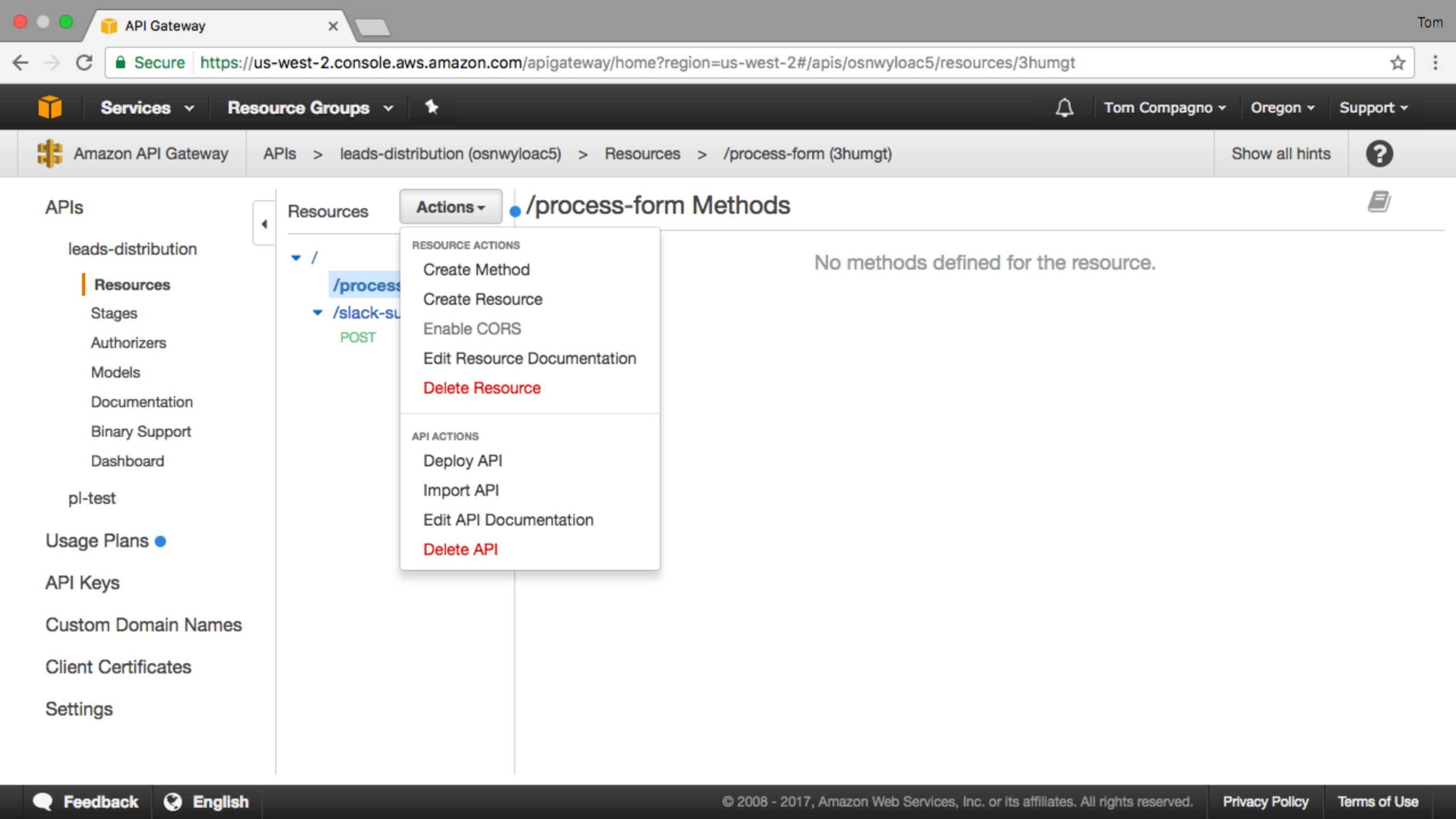
Feedback

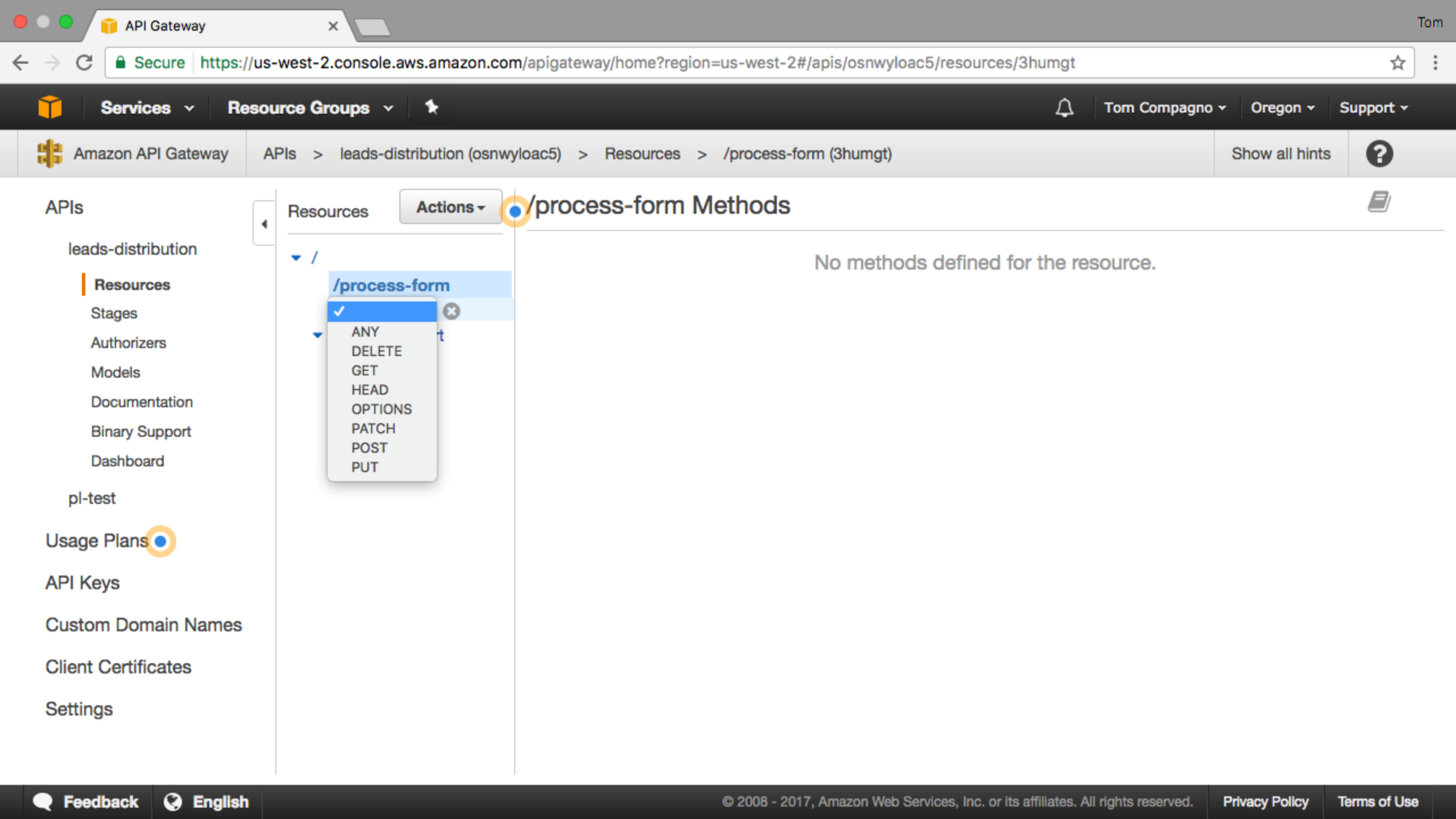
English

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Feedback

English

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Why Mock an Endpoint

Mock

Endpoint structure exists

Can return intelligent yet artificial responses

Temporary to allow client to assume transaction details and continue to code

End to end testing would still need to occur later

Functional

Endpoint structure exists

Fully functioning code supporting the endpoint

End to end testing can occur



API Gateway

Tom

Secure

https://us-west-2.console.aws.amazon.com/apigateway/home?region=us-west-2#/apis/osnwyloac5/resources/3humgt/methods/POST

☆

⋮

Services

Resource Groups

⌵

🔔

Tom Compagno

⌵

Oregon

⌵

Support

⌵

Amazon API Gateway

APIs > leads-distribution (osnwyloac5) > Resources > /process-form (3humgt) > POST

Show all hints

?

APIs

leads-distribution

Resources

Stages

Authorizers

Models

Documentation

Binary Support

Dashboard

pl-test

Usage Plans

API Keys

Custom Domain Names

Client Certificates

Settings

Resources

Actions

/

/process-form

POST

/slack-support

POST

/process-form - POST - Method Execution

📄

Client

TEST

Method Request

Auth: NONE

ARN: arn:aws:execute-api:us-west-2:854337666006:osnwyloac5/*/Pform

Integration Request

Type: MOCK

Method Response

HTTP Status: 200

Models: application/json => Empty

Integration Response

HTTP status pattern: -

Output passthrough: Yes

Mock Endpoint

Feedback

English

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Settings

Create

▶  dev

Delete Stage

Invoke URL:

Settings

Stage Variables

SDK Generation

Export

Deployment History

Documentation History


Configure the metering and caching settings for the **dev** stage.

Cache Settings

Enable API cache ☐

CloudWatch Settings

Enable CloudWatch Logs ☐ 

Enable Detailed CloudWatch Metrics ☐ 

Default Method Throttling

Choose the default throttling level for the methods in this stage. Each method in this stage will respect these rate and burst settings. Your current account level throttling rate is **1000** requests per second with a burst of **2000** requests. ⓘ



```
1  <html>
2      <head>
3      [+    <style>...
52         </style>
53     </head>
54     <body>
55     <form action="INSERT API URL HERE/process-form" method="POST">
56         <div>
57             <label for="fname">First Name:</label>
58             <input type="text" id="fname" name="first_name" />
59         </div>
60         <div>
61             <label for="lname">Last Name:</label>
62             <input type="text" id="lname" name="last_name" />
63         </div>
64         <div>
65             <label for="lname">Company:</label>
66             <input type="text" id="company" name="company" />
67         </div>
68         <div>
```





```
65         <label for="lname">Company:</label>
66         <input type="text" id="company" name="company" />
67     </div>
68     <div>
69         <label for="name">Phone:</label>
70         <input type="text" id="phone" name="phone" />
71     </div>
72     <div>
73         <label for="name">Email:</label>
74         <input type="text" id="email" name="email" />
75     </div>
76     <div>
77         <button type="submit">Send</button>
78     </div>
79 </form>
80 </body>
81 </html>
```

```
<form action="INSERT API URL  
HERE/process-form"  
method="POST">
```

```
<div>
```

```
  <label for="fname">First  
  Name:</label>
```

```
  <input type="text"  
  id="fname"  
  name="first_name" />
```

```
</div>
```

- ◀ We will post our form to our form processor endpoint
- ◀ First a label to help the user
- ◀ Then our related input field
- ◀ Input name to match our form processor code





Services ▾

Resource Groups ▾



Tom Compagno ▾

Oregon ▾

Support ▾

AWS services



Recently visited services



API Gateway



S3



Lambda



Elastic Beanstalk

> All services

Build a solution

Get started with simple wizards and automated workflows.



Launch a virtual machine

With EC2
~1 minute



Build a web app

With Elastic Beanstalk
~6 minutes



Deploy a serverless microservice

With Lambda, API Gateway
~2 minutes



Host a static website

With S3, CloudFront, Route 53
~5 minutes



Create a backend for your mobile app

With Mobile Hub
~5 minutes



Register a domain

With Route 53
~3 minutes

Featured next steps



Manage your costs

Get real-time billing alerts based on your cost and usage budgets. [Start now](#)



Get best practices

Use AWS Trusted Advisor for security, performance, cost and availability best practices. [Start now](#)

What's new?

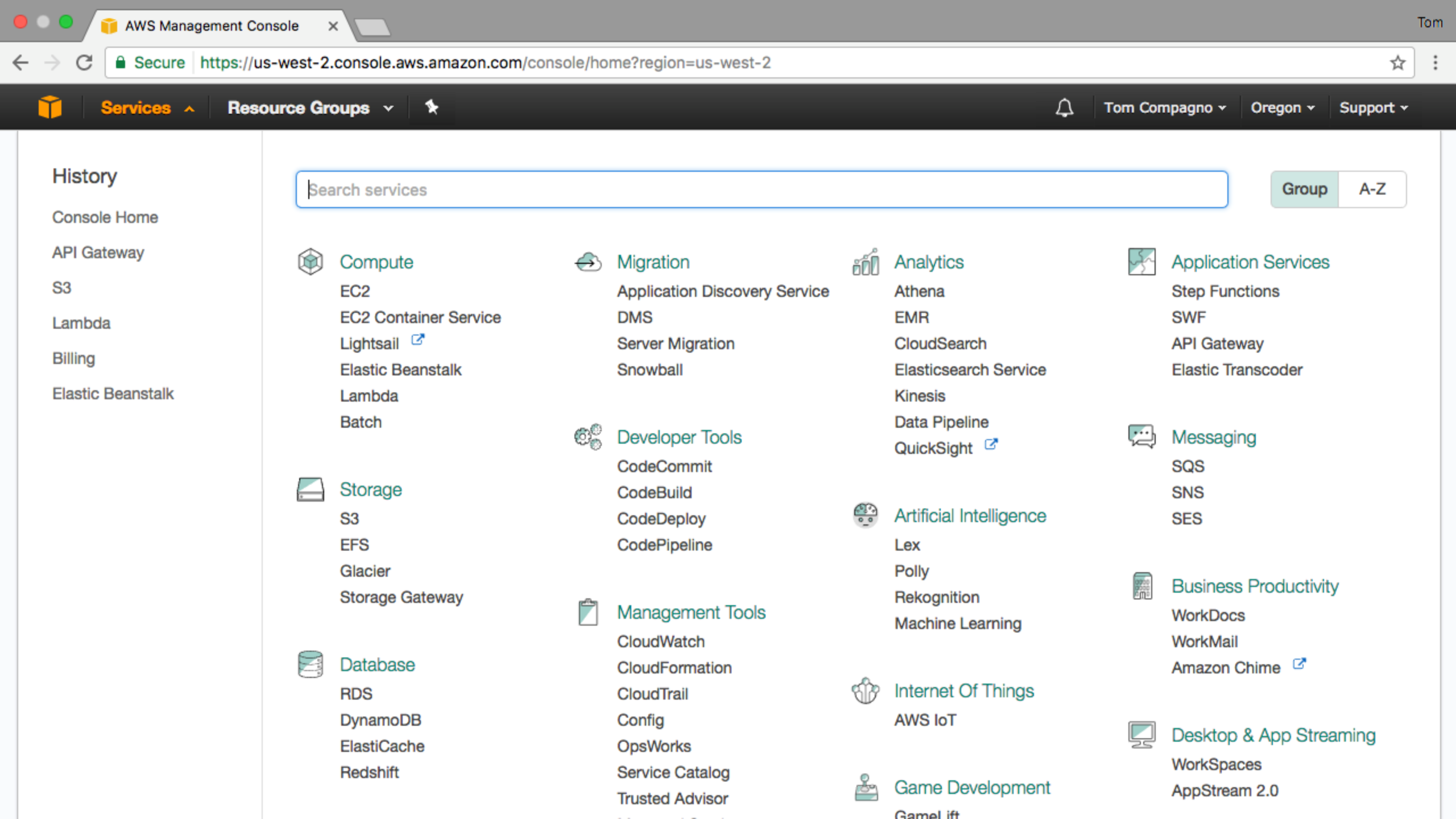
Announcing AWS Batch

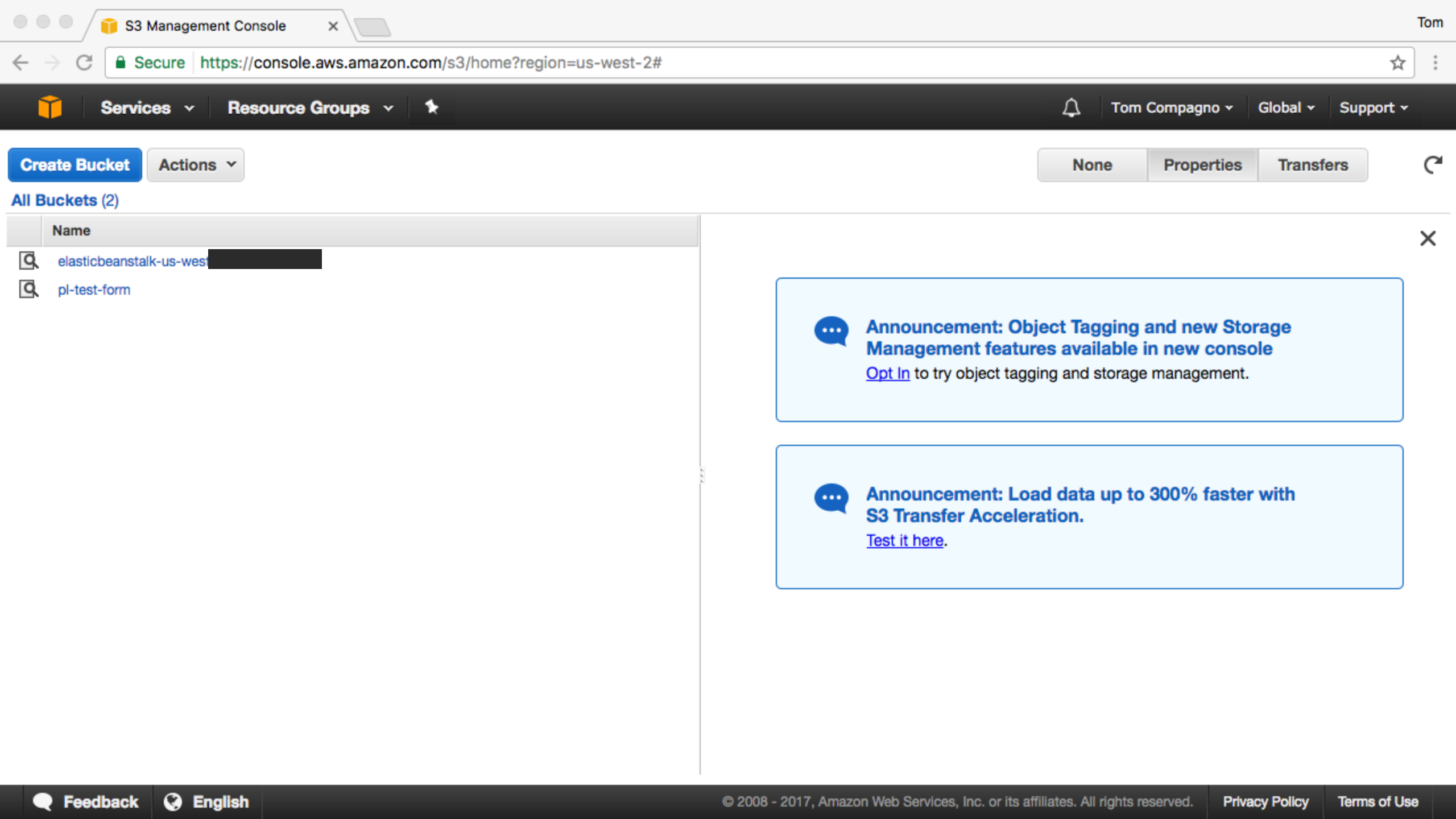
Now generally available, AWS Batch enables developers, scientists, and engineers to process large-scale batch jobs with ease. [Learn more](#)

Announcing Amazon Lightsail

See how this new service allows you to launch and manage your VPS with AWS for a low, predictable price. [Learn more](#)

[See all](#)





Create Bucket

Actions

None

Properties

Transfers

All Buckets (2)

Name



elasticbeanstalk-us-west-2



pl-test-form



Announcement: Object Tagging and new Storage Management features available in new console

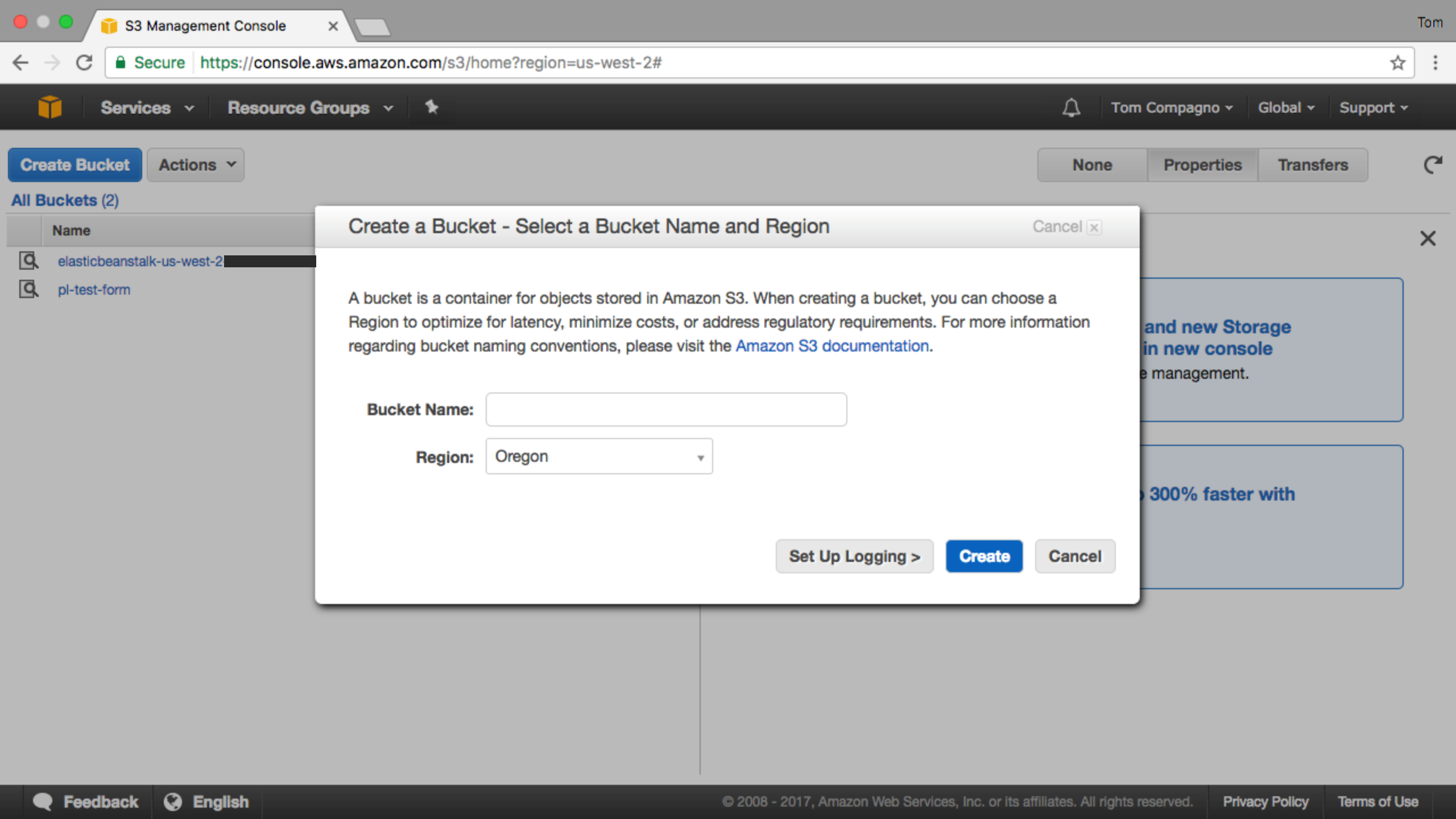
[Opt In](#) to try object tagging and storage management.



Announcement: Load data up to 300% faster with S3 Transfer Acceleration.

[Test it here.](#)



**Create Bucket**

Actions ▾

None

Properties

Transfers



All Buckets (2)

Name



elasticbeanstalk-us-west-2



pl-test-form

Create a Bucket - Select a Bucket Name and Region

Cancel

A bucket is a container for objects stored in Amazon S3. When creating a bucket, you can choose a Region to optimize for latency, minimize costs, or address regulatory requirements. For more information regarding bucket naming conventions, please visit the [Amazon S3 documentation](#).

Bucket Name:

Region:

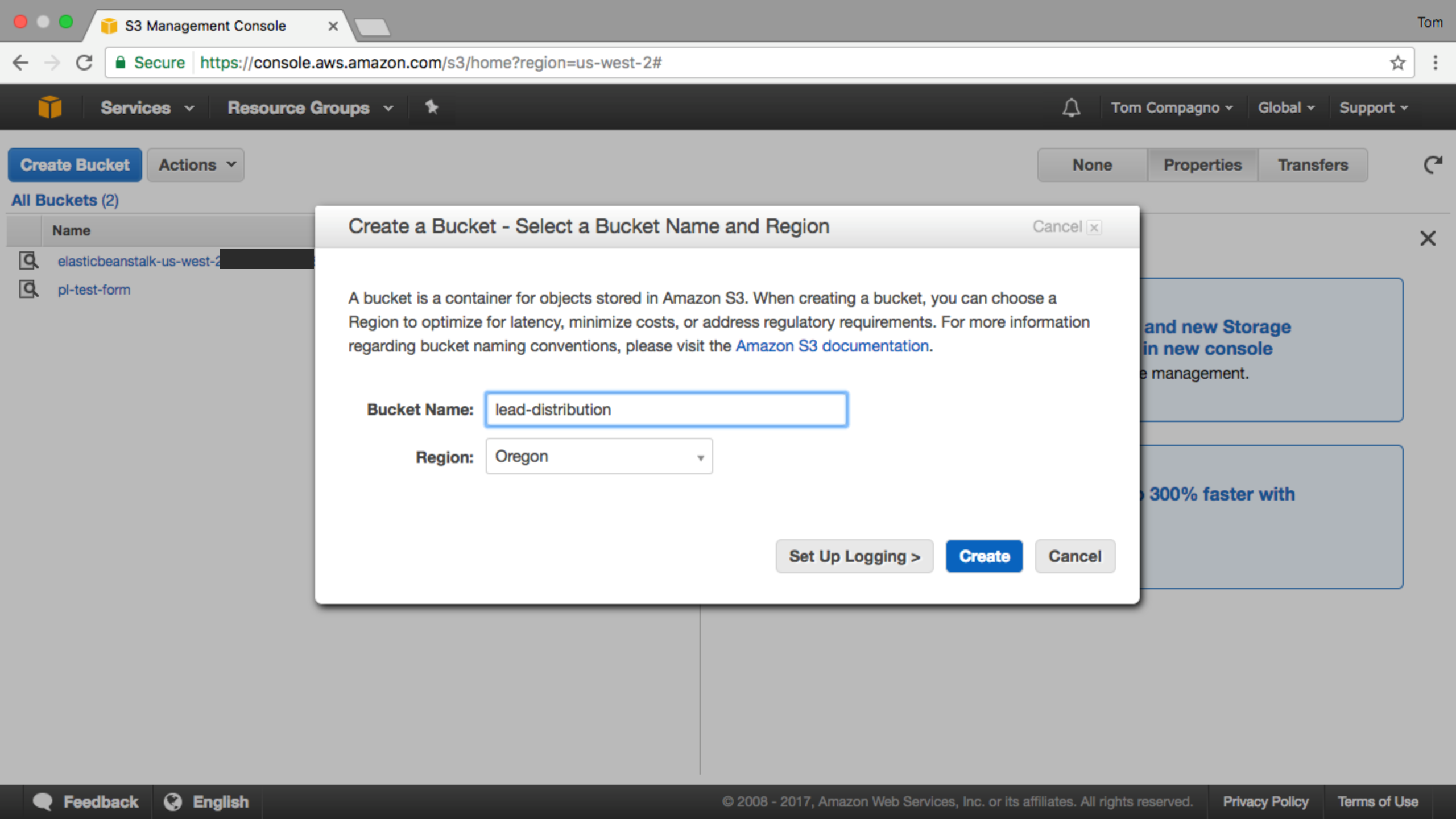
Oregon ▾

Set Up Logging >

Create

Cancel



**Create Bucket**

Actions ▾

None

Properties

Transfers

**All Buckets (2)**

Name



elasticbeanstalk-us-west-2



pl-test-form

Create a Bucket - Select a Bucket Name and Region

Cancel

A bucket is a container for objects stored in Amazon S3. When creating a bucket, you can choose a Region to optimize for latency, minimize costs, or address regulatory requirements. For more information regarding bucket naming conventions, please visit the [Amazon S3 documentation](#).

Bucket Name: lead-distribution**Region:** Oregon ▾

Set Up Logging >

Create

Cancel



Create Bucket Actions ▾

None Properties Transfers ↻

All Buckets (3)

	Name
	elasticbeanstalk-us-west-2-██████████
	lead-distribution
	pl-test-form

Bucket: lead-distribution ×

Bucket: lead-distribution
Region: Oregon
Creation Date: Sun Feb 26 12:09:35 GMT-700 2017
Owner: tom.compagno

▸ Permissions

▸ Static Website Hosting

▸ Logging

▸ Events

▸ Versioning

▸ Lifecycle

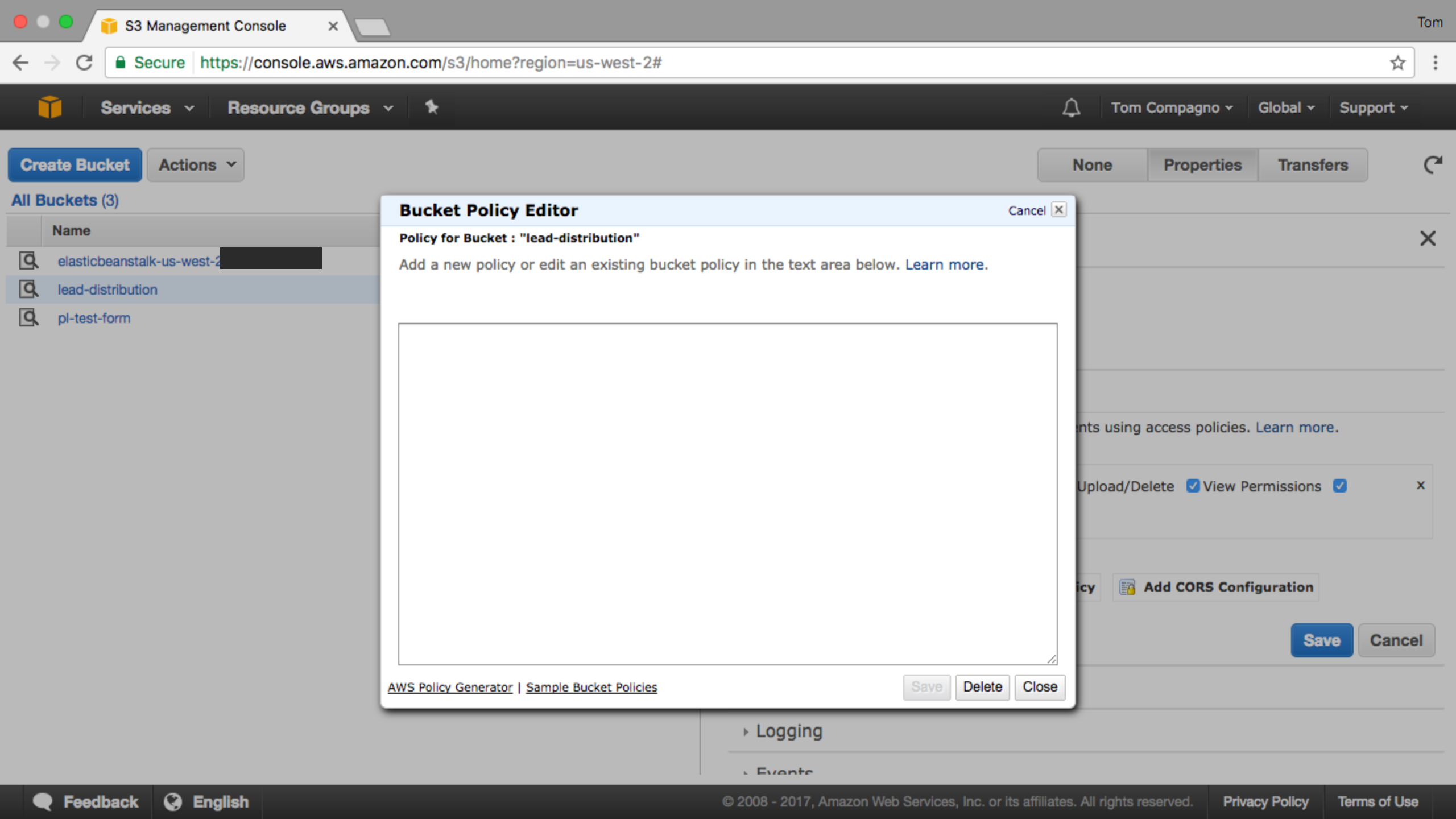
▸ Cross-Region Replication

▸ Tags

▸ Requester Pays

 Feedback  English

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```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Sid": "AddPerm",  
      "Effect": "Allow",  
      "Principal": "*",  
      "Action":  
        "s3:GetObject",  
      "Resource":  
        "arn:aws:s3:::lead-  
distribution/*"  
    }  
  ]  
}
```

- ◀ Policy version – use the policy generator to find a valid version
- ◀ What effect will this policy provide
- ◀ What action are we permitting
- ◀ To what resource are we allowing the action



S3 Management Console

Tom

← → ↺

Secure

https://console.aws.amazon.com/s3/home?region=us-west-2#

☆ ⋮

S3

Services

Resource Groups

★

🔔

Tom Compagno

Global

Support

Create Bucket

Actions

All Buckets (3)

Name

elasticbeanstalk-us-west-2

lead-distribution

pl-test-form

None

Properties

Transfers

✕

Bucket Policy Editor

Cancel

Policy for Bucket : "lead-distribution"

Add a new policy or edit an existing bucket policy in the text area below. [Learn more.](#)

```
{  "Version": "2012-10-17",  "Statement": [    {      "Sid": "AddPerm",      "Effect": "Allow",      "Principal": "*",      "Action": "s3:GetObject",      "Resource": "arn:aws:s3:::lead-distribution/*"    }  ]}
```

[AWS Policy Generator](#) | [Sample Bucket Policies](#)

Save

Delete

Close

nts using access policies. [Learn more.](#)

Upload/Delete

☒ View Permissions

☒

✕

Policy

Add CORS Configuration

Save

Cancel

Logging

Events

Feedback

English

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Create Bucket

Actions

None

Properties

Transfers

All Buckets (3)

Name

elasticbeanstalk-us-west-2

lead-distribution

pl-test-form

Bucket: lead-distribution

Bucket: lead-distribution

Region: Oregon

Creation Date: Sun Feb 26 12:09:35 GMT-700 2017

Owner: tom.compagno

Permissions

You can control access to the bucket and its contents using access policies. [Learn more.](#)

Grantee: tom.compagno

✓

List

✓

Upload/Delete

✓

View Permissions

✓

Edit Permissions

+

Add more permissions

🔒

Edit bucket policy

🔒

Add CORS Configuration

Save

Cancel

Static Website Hosting

Logging

Events

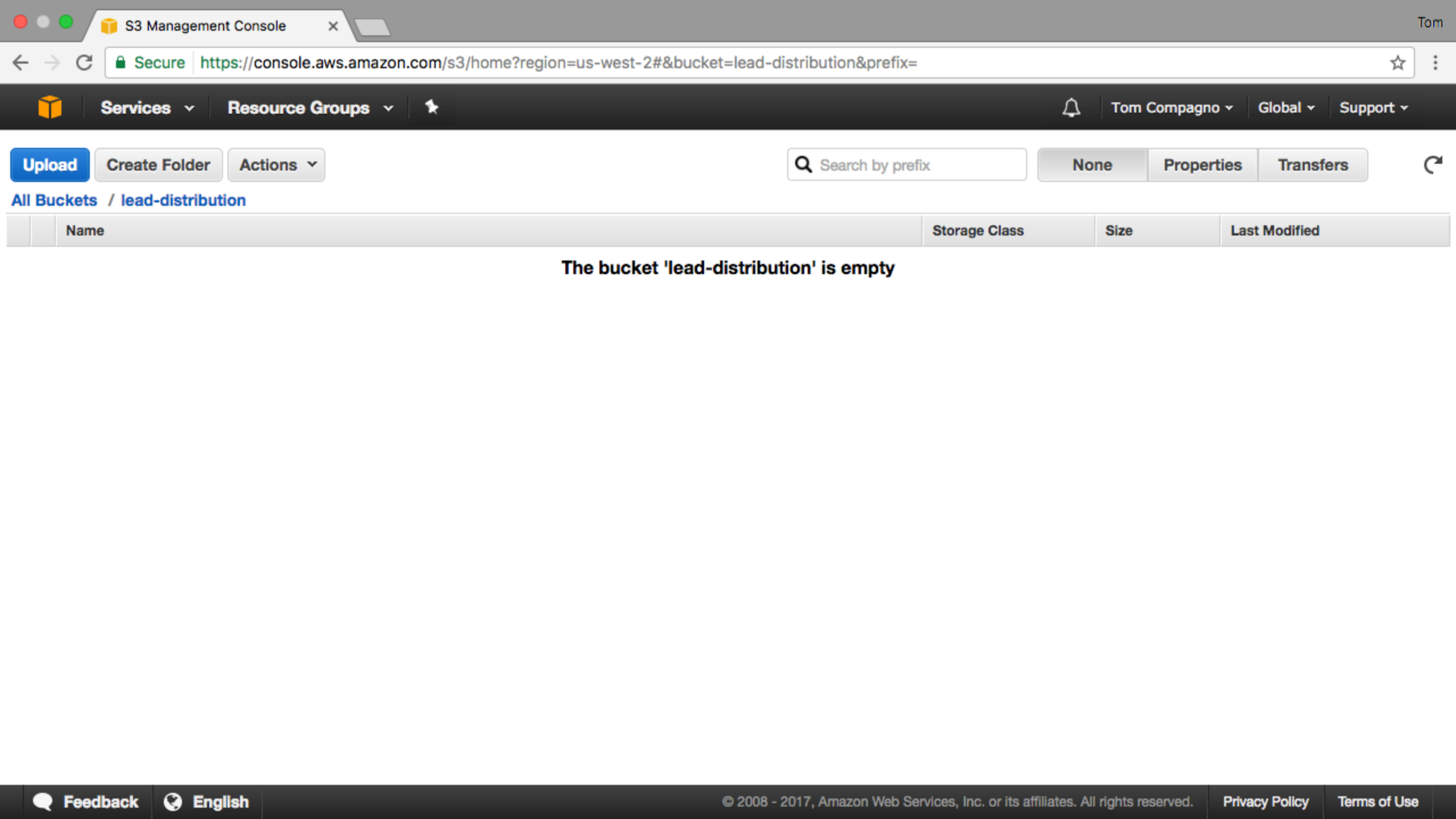
Feedback

English

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Upload

Create Folder

Actions ▾



Search by prefix

None

Properties

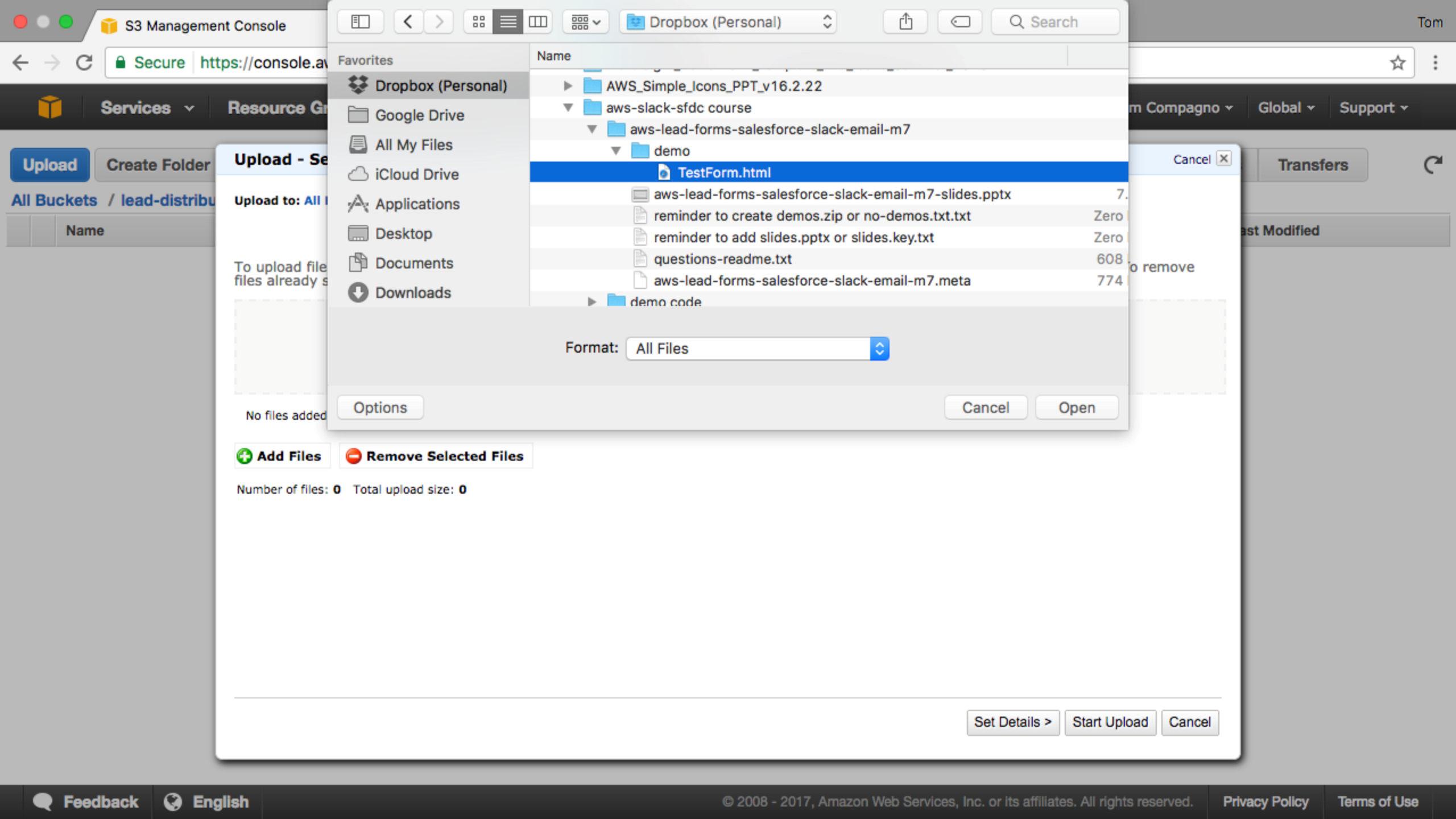
Transfers

[All Buckets](#) / [lead-distribution](#)

	Name	Storage Class	Size	Last Modified
--	------	---------------	------	---------------

The bucket 'lead-distribution' is empty





Favorites

Dropbox (Personal)

Google Drive

All My Files

iCloud Drive

Applications

Desktop

Documents

Downloads

Name

AWS_Simple_Icons_PPT_v16.2.22

aws-slack-sfdc course

aws-lead-forms-salesforce-slack-email-m7

demo

TestForm.html

aws-lead-forms-salesforce-slack-email-m7-slides.pptx

reminder to create demos.zip or no-demos.txt.txt

reminder to add slides.pptx or slides.key.txt

questions-readme.txt

aws-lead-forms-salesforce-slack-email-m7.meta

demo code

Format: All Files

Options

Cancel

Open

Add Files

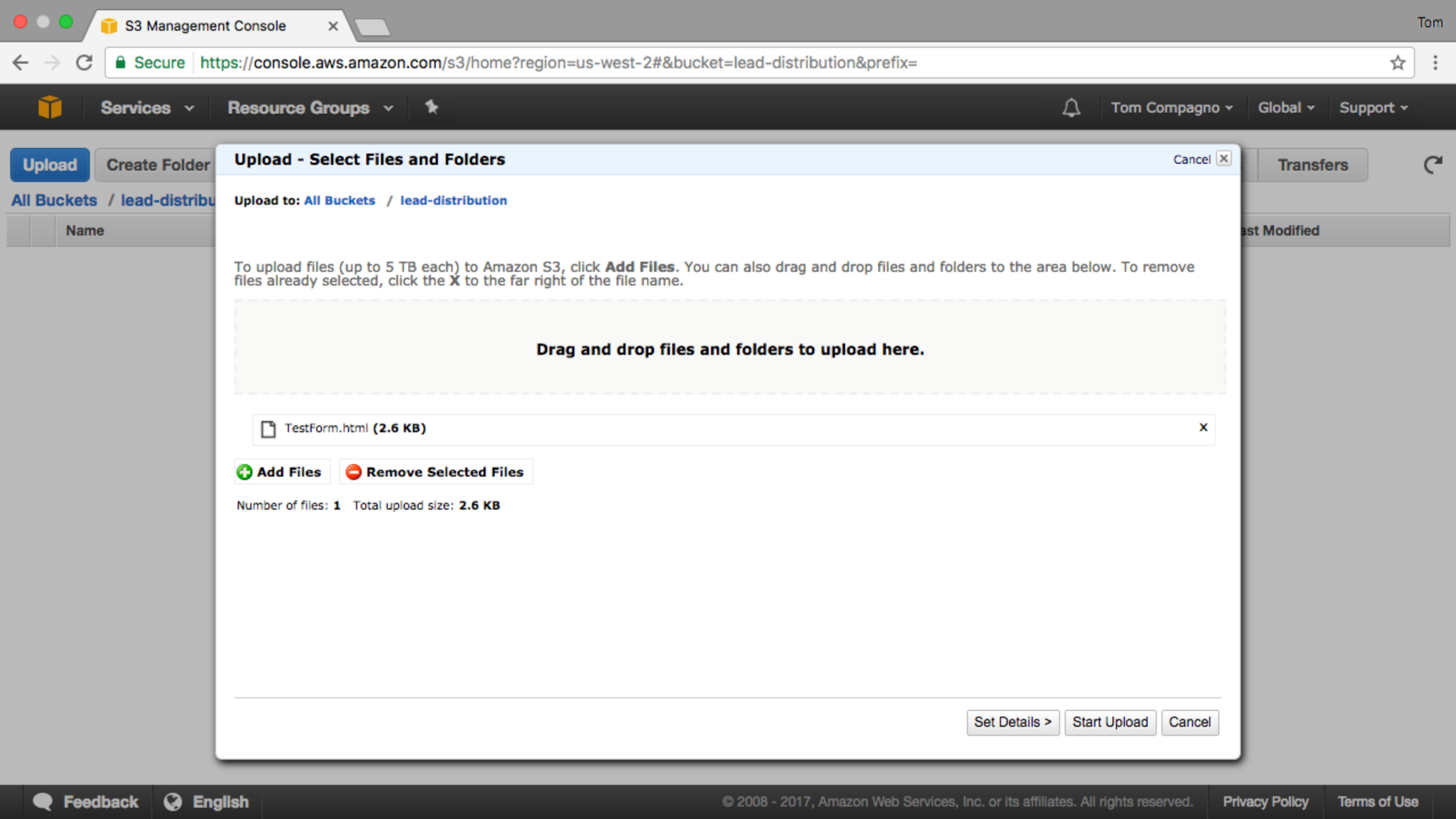
Remove Selected Files

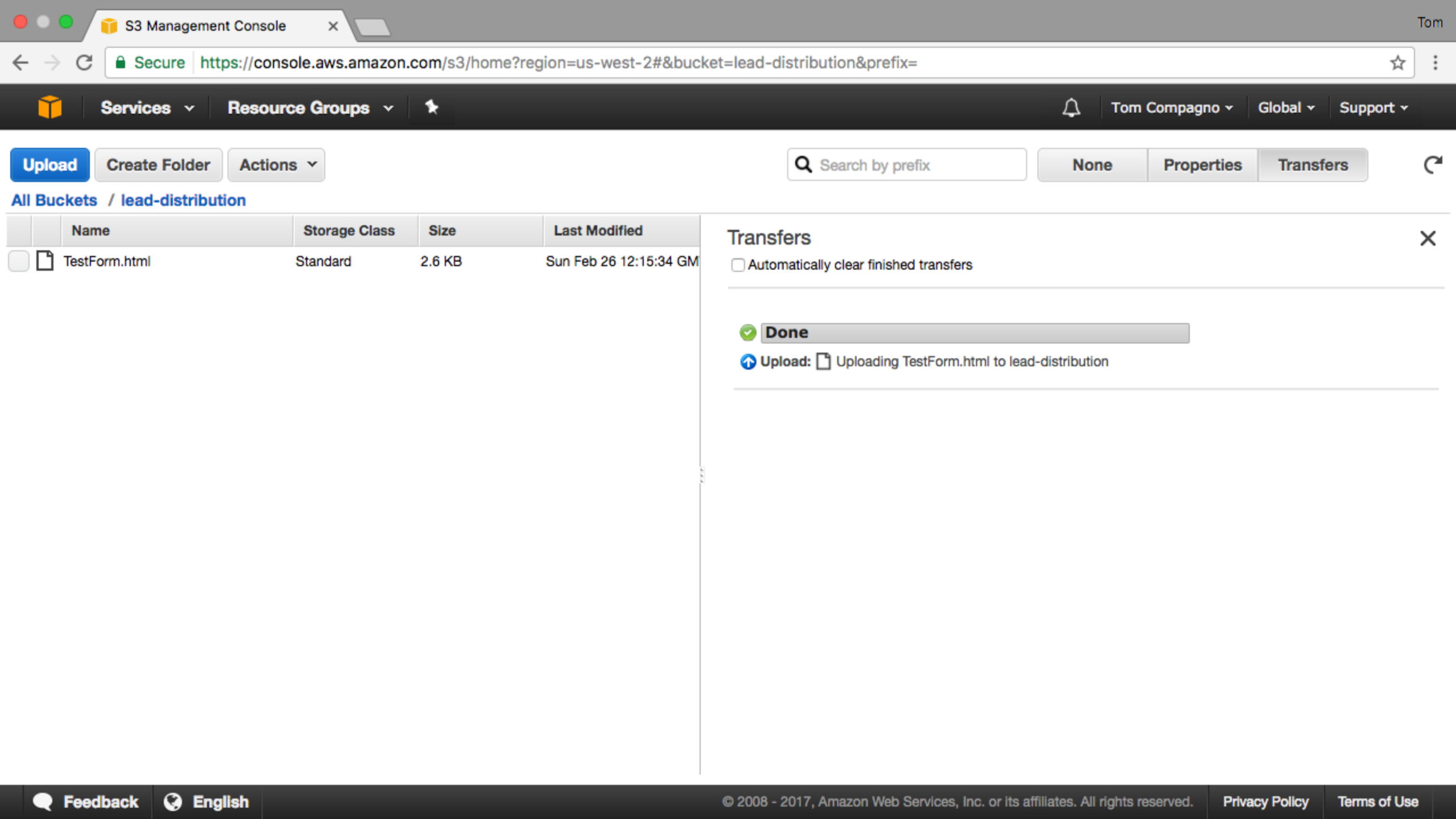
Number of files: 0 Total upload size: 0

Set Details >

Start Upload

Cancel





Upload

Create Folder

Actions



Search by prefix

None

Properties

Transfers



All Buckets / lead-distribution

	Name	Storage Class	Size	Last Modified
<input type="checkbox"/>	TestForm.html	Standard	2.6 KB	Sun Feb 26 12:15:34 GM

Transfers

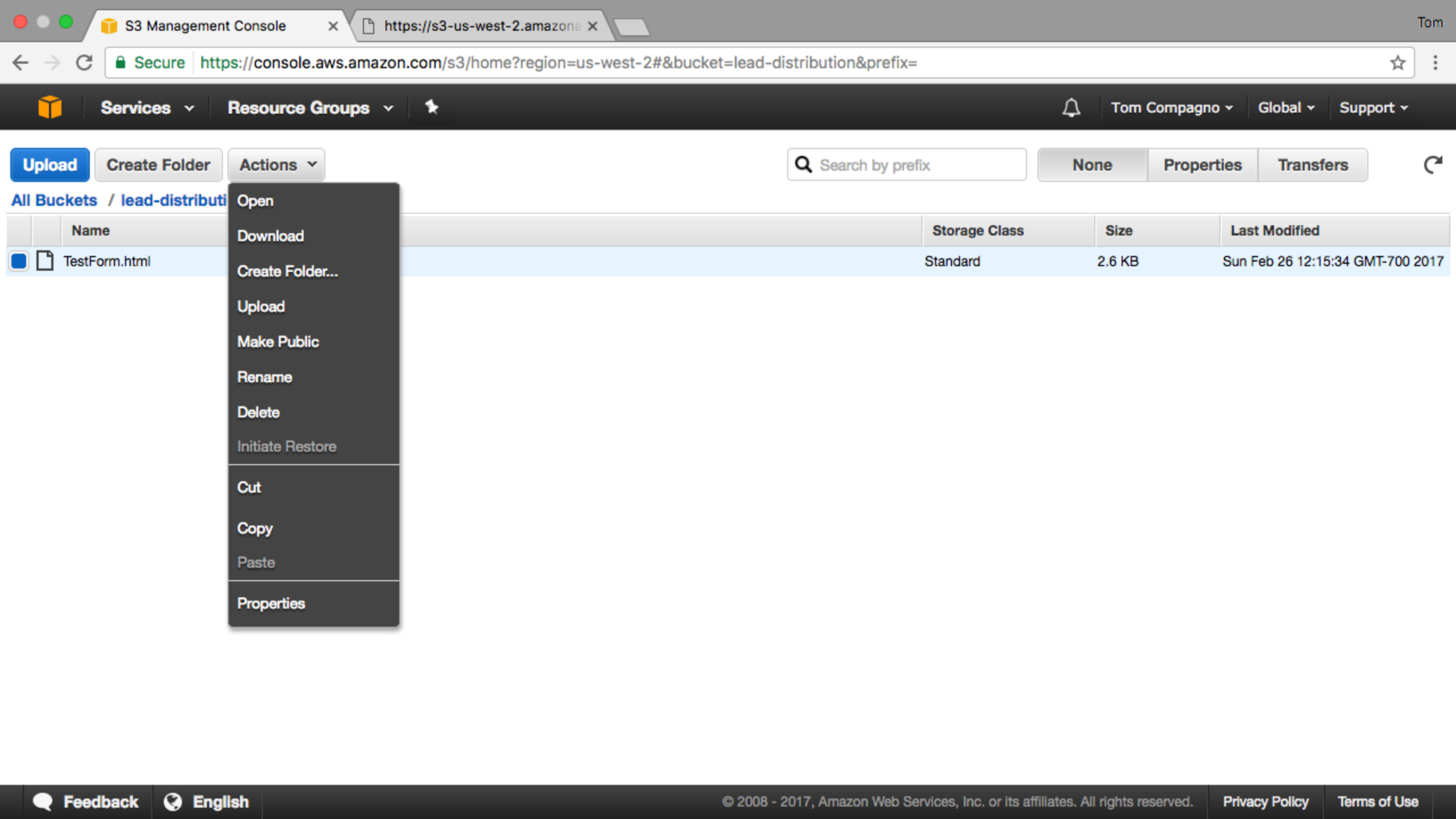
☐ Automatically clear finished transfers

Done



Upload: Uploading TestForm.html to lead-distribution





Upload

Create Folder

Actions

Search by prefix

None

Properties

Transfers



All Buckets / lead-distribution

Name

Storage Class

Size

Last Modified

TestForm.html

Standard

2.6 KB

Sun Feb 26 12:15:34 GMT-700 2017

Open

Download

Create Folder...

Upload

Make Public

Rename

Delete

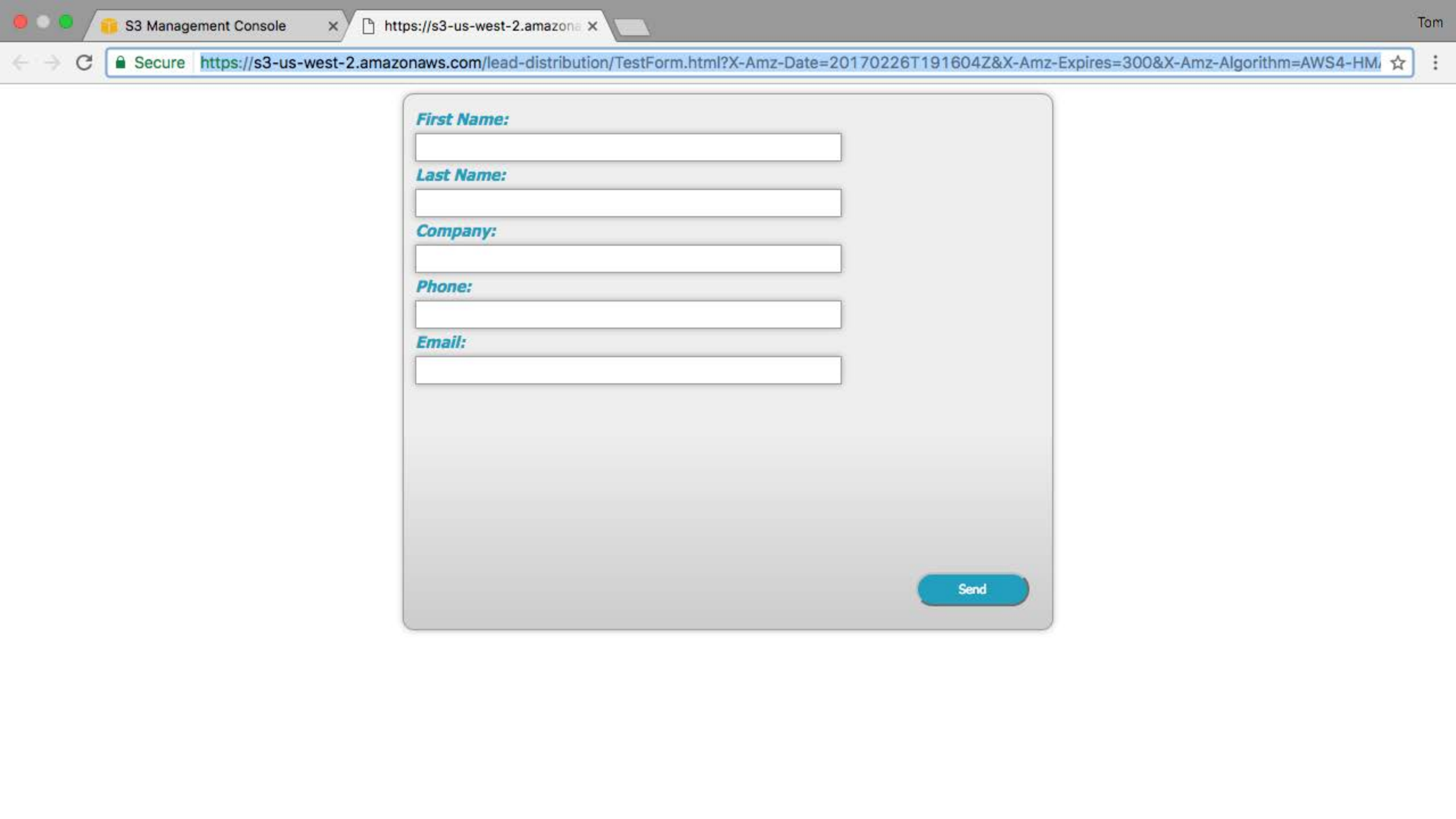
Initiate Restore

Cut

Copy

Paste

Properties



First Name:

Last Name:

Company:

Phone:

Email:

Send

Summary



HTML form to collect lead data

- Post to mock API

S3 provides simple static hosting

- Policy to allow read access
- Unique bucket names

S3 can be used for any kind of file storage