

Understanding Our AWS Tools



Thomas Compagno

VP OF TECHNOLOGY

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Overview



Review our list of seven
Amazon Web Services

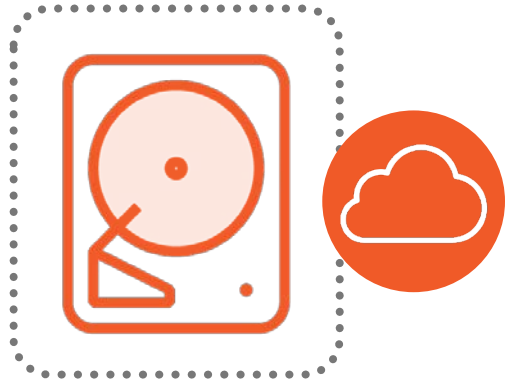
Discuss the prerequisites for this module

Walk through the AWS console for
each of our services

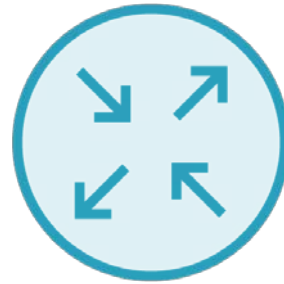
Review prerequisites for the rest
of the course



Our Amazon Web Services



Simple Storage
Service



API Gateway



Lambda

Our Amazon Web Services



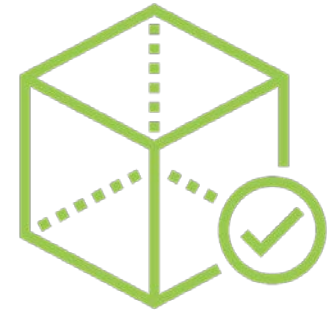
Simple Queue
Service



CloudWatch



Simple Email
Service



Elastic Beanstalk

Prerequisite

Register for an AWS account

- <https://aws.amazon.com/>
- Email
- Password
- Contact information
- Payment information
- Verification step



Demo



AWS Sign In – aws.amazon.com

Simple Storage Service

API Gateway

Lambda Functions

Simple Queue Service

CloudWatch

Simple Email Service

Elastic Beanstalk

Setup an IAM role





Sign In or Create an AWS Account

What is your email (phone for mobile accounts)?

E-mail or mobile number:

tom.compagno@gmail.com

- ☐ I am a new user.
- ☒ I am a returning user
and my password is:

.....

Sign in using our secure server



[Forgot your password?](#)



Learn more about [AWS Identity and Access Management](#) and [AWS Multi-Factor Authentication](#), features that provide additional security for your AWS Account. View full [AWS Free Usage Tier](#) offer terms.



Services ▾

Resource Groups ▾



Tom Compagno ▾

Oregon ▾

Support ▾

AWS services



▾ Recently visited services



S3



API Gateway

> All services

Build a solution

Get started with simple wizards and automated workflows.

[Launch a virtual machine](#)

With EC2
~1 minutes

[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 spend](#)

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](#)

Announcements

[Announcing Amazon Lightsail](#)

Virtual Private Servers (VPS) made easy. [Learn more](#)

[Amazon Aurora - New Features](#)

Announcing PostgreSQL compatibility for Amazon Aurora. [Learn more](#)

[See all](#)

Create Bucket


Actions

None

Properties

Transfers

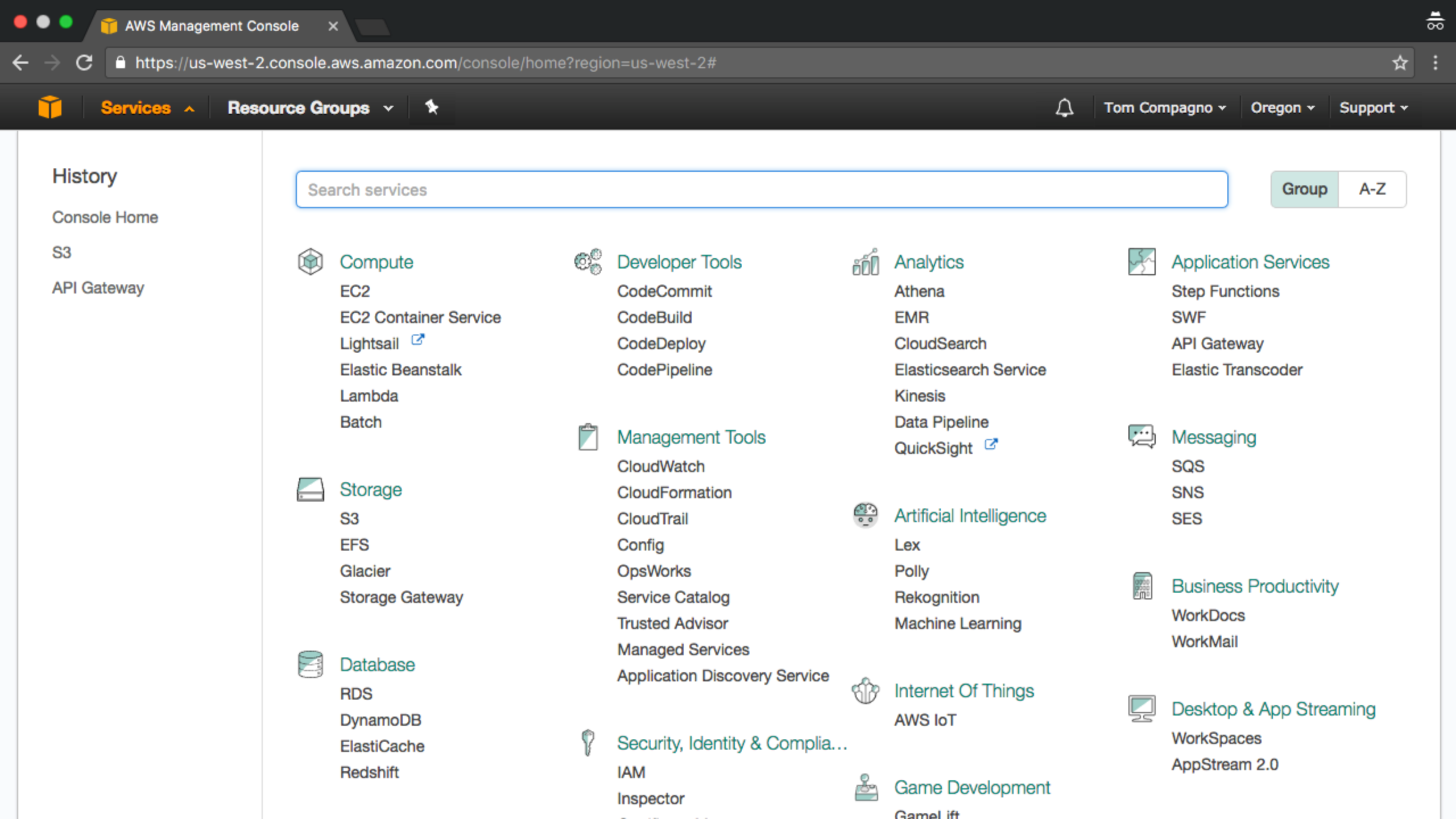
All Buckets (1)

Name
 pl-test-form

Bucket: pl-test-form

Bucket: pl-test-form
Region: Oregon
Creation Date: Wed Jan 18 13:55:22 GMT-700 2017
Owner: tom.compagno

- Permissions
- Static Website Hosting
- Logging
- Events
- Versioning
- Lifecycle
- Cross-Region Replication
- Tags
- Requester Pays



History

- Console Home
- S3
- API Gateway

Search services

Group A-Z



Compute

- EC2
- EC2 Container Service
- Lightsail
- Elastic Beanstalk
- Lambda
- Batch



Storage

- S3
- EFS
- Glacier
- Storage Gateway



Database

- RDS
- DynamoDB
- ElastiCache
- Redshift



Developer Tools

- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline



Management Tools

- CloudWatch
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Trusted Advisor
- Managed Services
- Application Discovery Service



Security, Identity & Compliance

- IAM
- Inspector



Analytics

- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- Data Pipeline
- QuickSight



Artificial Intelligence

- Lex
- Polly
- Rekognition
- Machine Learning



Internet Of Things

- AWS IoT



Game Development

- Gamelift



Application Services

- Step Functions
- SWF
- API Gateway
- Elastic Transcoder



Messaging

- SQS
- SNS
- SES



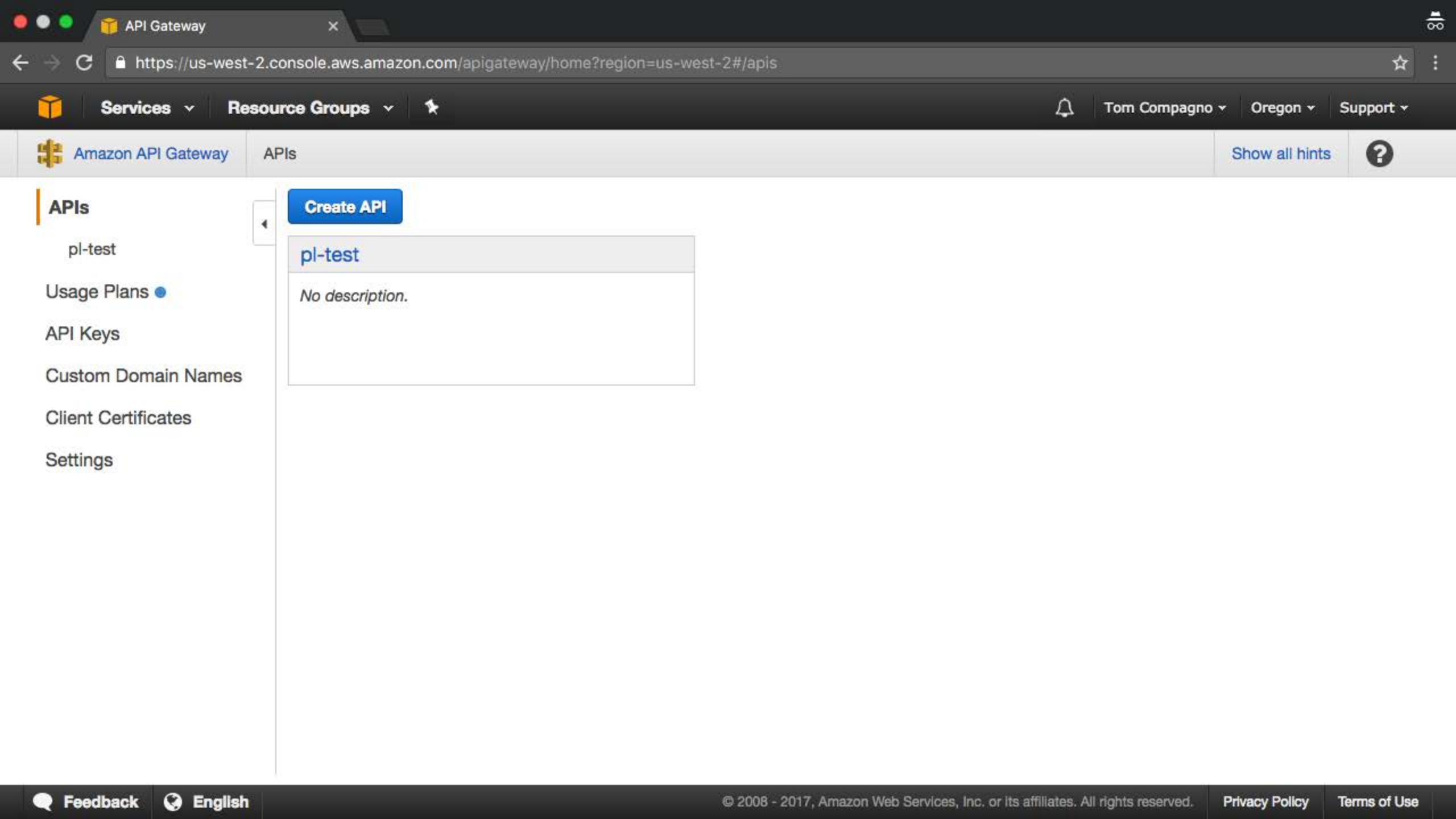
Business Productivity

- WorkDocs
- WorkMail



Desktop & App Streaming

- WorkSpaces
- AppStream 2.0



APIs

pl-test

Usage Plans ●

API Keys

Custom Domain Names

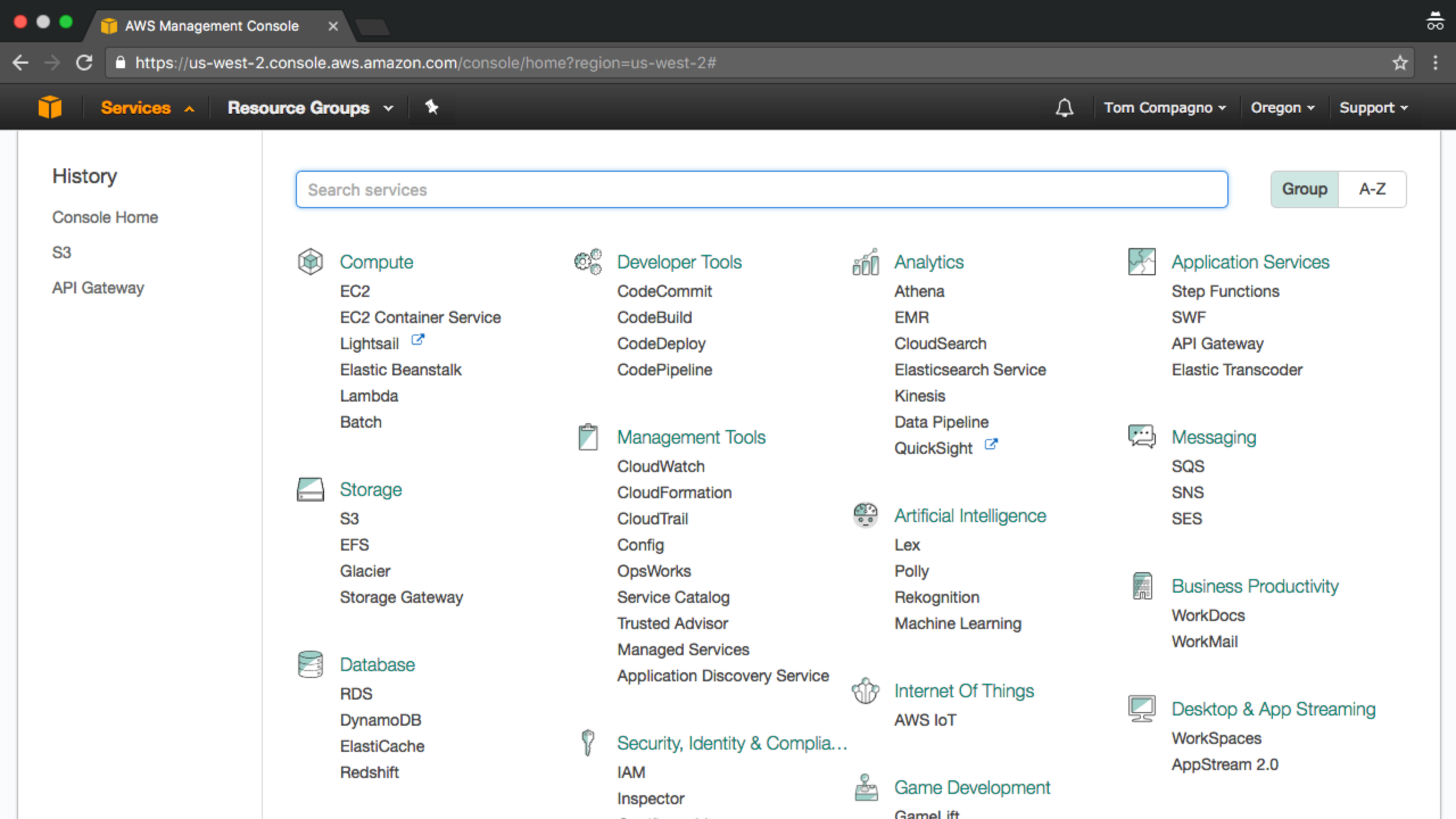
Client Certificates

Settings

Create API

pl-test

No description.



History

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EC2 Container Service

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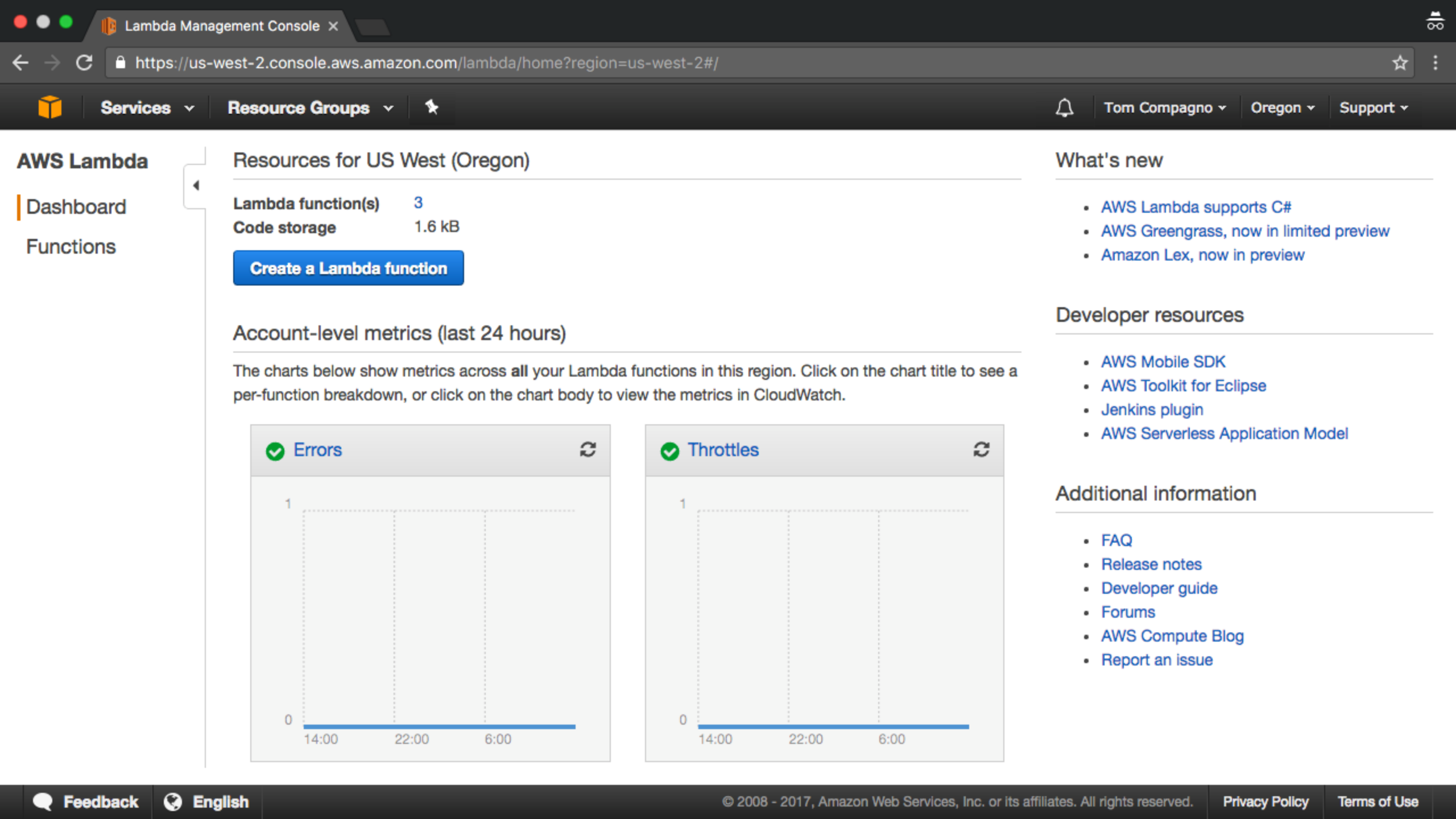
AppStream 2.0

Lambda > Functions

Create a Lambda function

Actions

	Function name	Description	Runtime	Code size	Last Modified
<input type="radio"/>	processMessages		Python 2.7	759 bytes	15 days ago
<input type="radio"/>	processForm		Python 2.7	532 bytes	17 days ago
<input type="radio"/>	add-two-numbers	add two numbers	Python 2.7	357 bytes	6 months ago



AWS Lambda

Dashboard

Functions

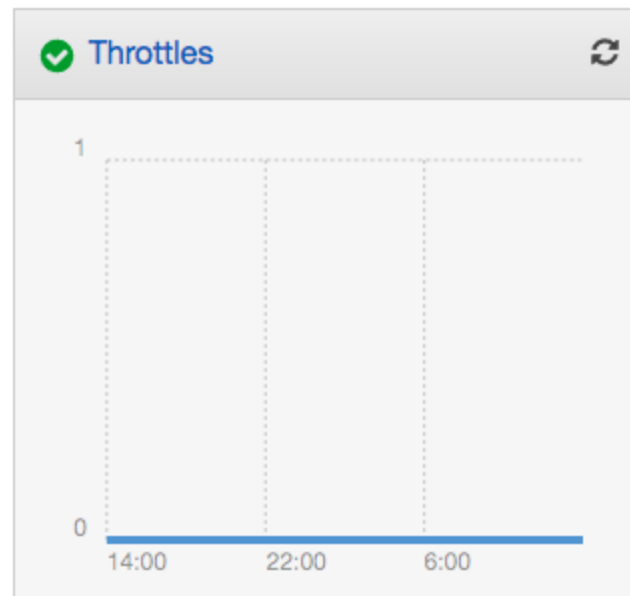
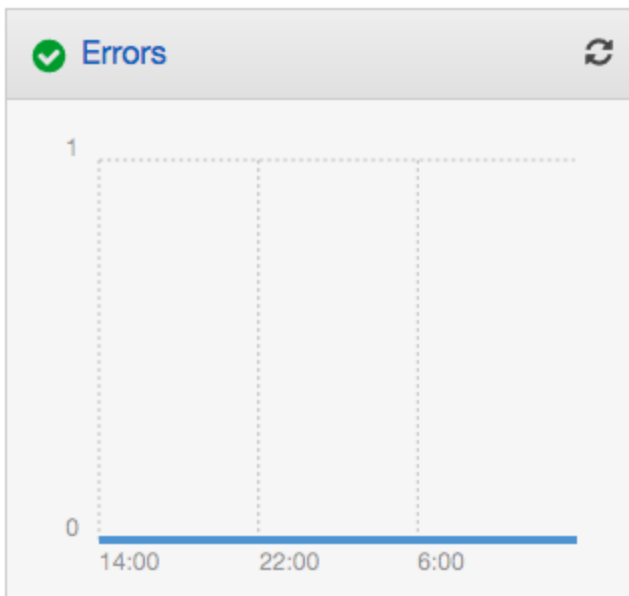
Resources for US West (Oregon)

Lambda function(s) 3
Code storage 1.6 kB

Create a Lambda function

Account-level metrics (last 24 hours)

The charts below show metrics across **all** your Lambda functions in this region. Click on the chart title to see a per-function breakdown, or click on the chart body to view the metrics in CloudWatch.



What's new

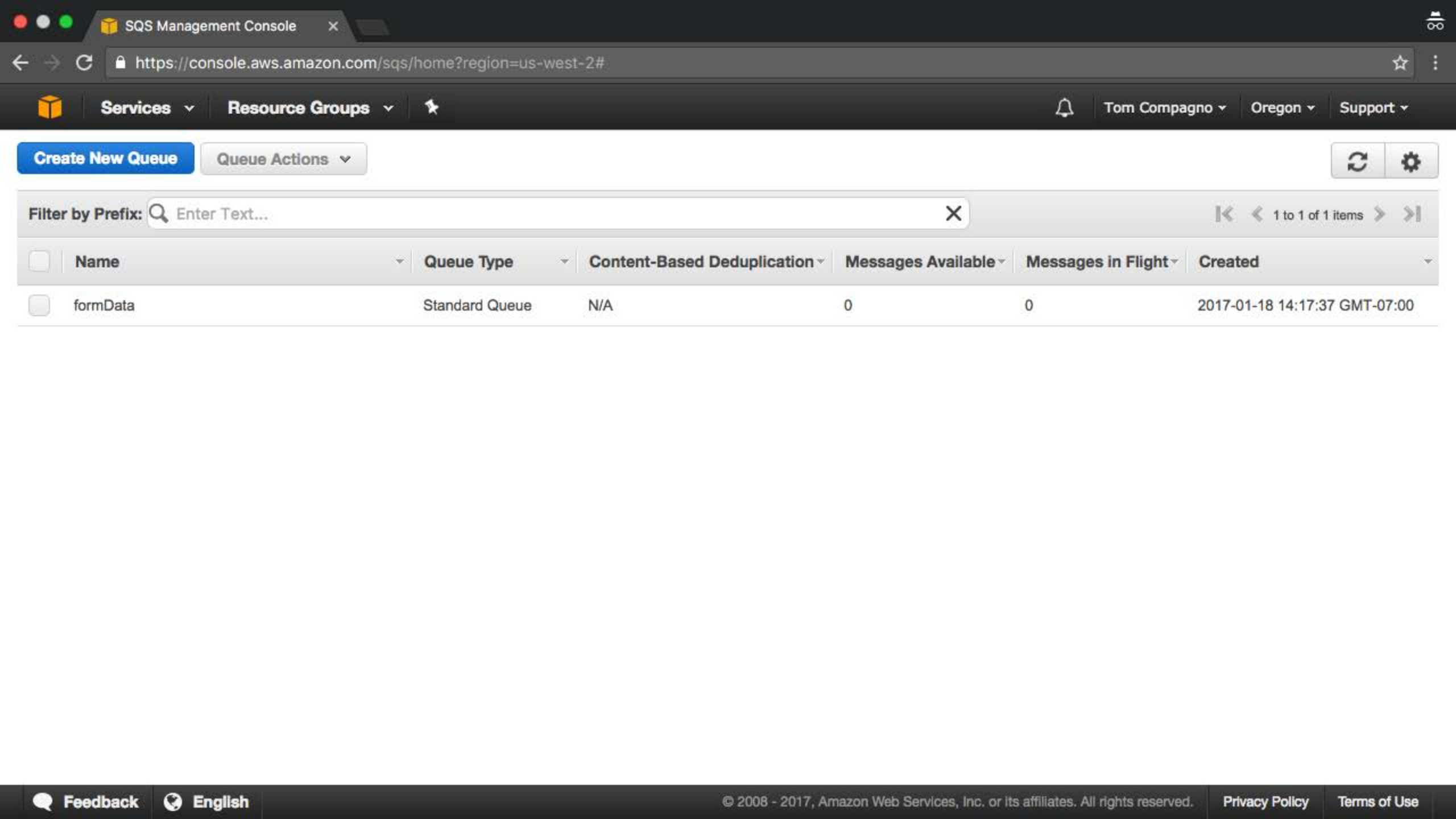
- [AWS Lambda supports C#](#)
- [AWS Greengrass, now in limited preview](#)
- [Amazon Lex, now in preview](#)

Developer resources

- [AWS Mobile SDK](#)
- [AWS Toolkit for Eclipse](#)
- [Jenkins plugin](#)
- [AWS Serverless Application Model](#)

Additional information

- [FAQ](#)
- [Release notes](#)
- [Developer guide](#)
- [Forums](#)
- [AWS Compute Blog](#)
- [Report an issue](#)



Create New Queue

Queue Actions



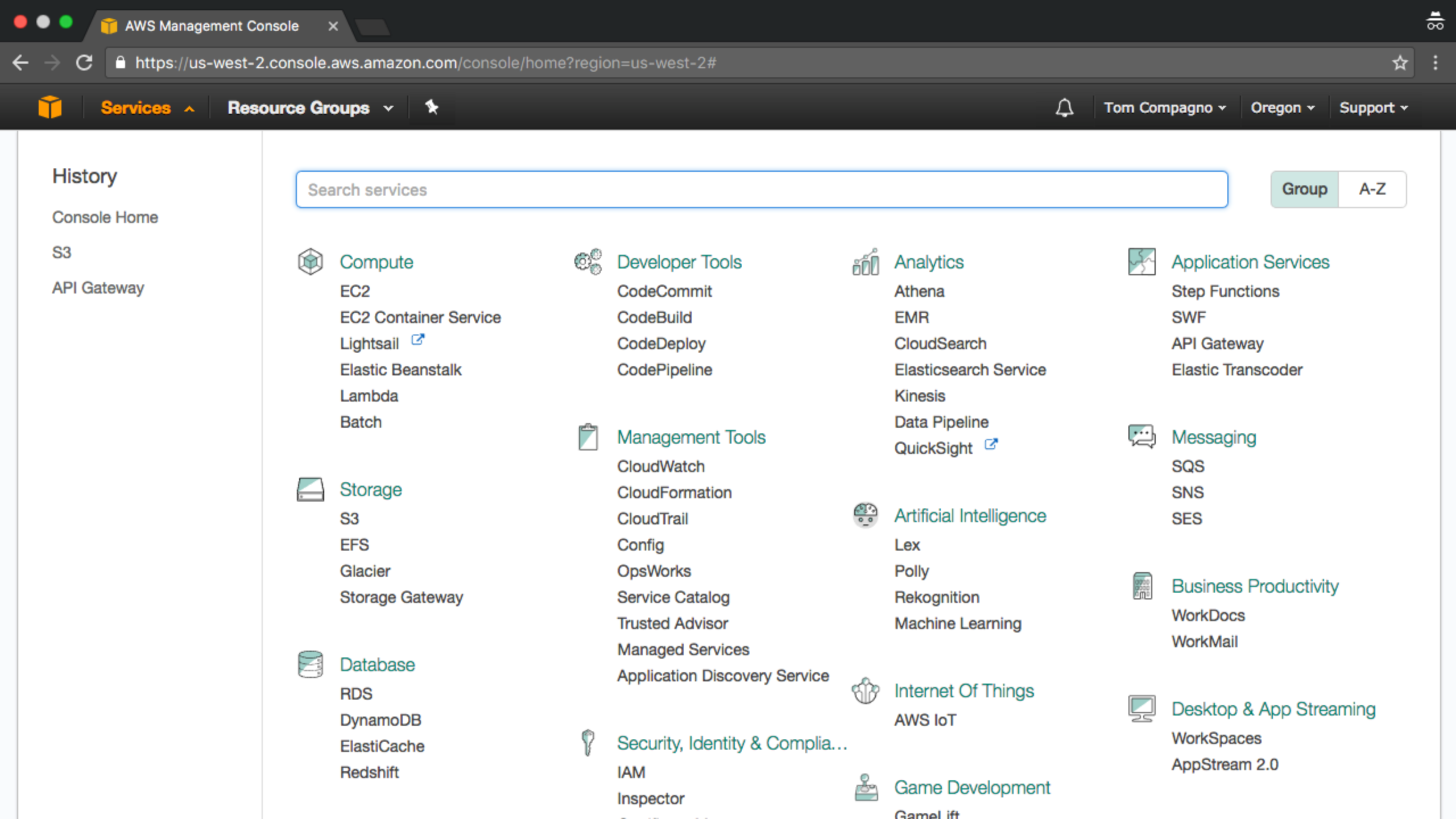
Filter by Prefix: Enter Text...



1 to 1 of 1 items

<input type="checkbox"/>	Name	Queue Type	Content-Based Deduplication	Messages Available	Messages in Flight	Created
<input type="checkbox"/>	formData	Standard Queue	N/A	0	0	2017-01-18 14:17:37 GMT-07:00





- SES Home
- Identity Management
- Domains
- Email Addresses
- Email Sending
- Sending Statistics
- Dedicated IPs
- Configuration Sets
- SMTP Settings
- Suppression List Removal
- Cross-Account Notifications
- Email Receiving
- Rule Sets
- IP Address Filters



Amazon Simple Email Service

Amazon Simple Email Service enables you to send and receive email using a reliable and scalable email platform.

[Read the documentation.](#)



Manage Identities

Verify email addresses and domains, send a test email, and configure email-sending settings.

[Go to identity management.](#)



Monitor Email Sending

View metrics for bounces, complaints, deliveries, and the number of emails you have sent with respect to your sending limits.

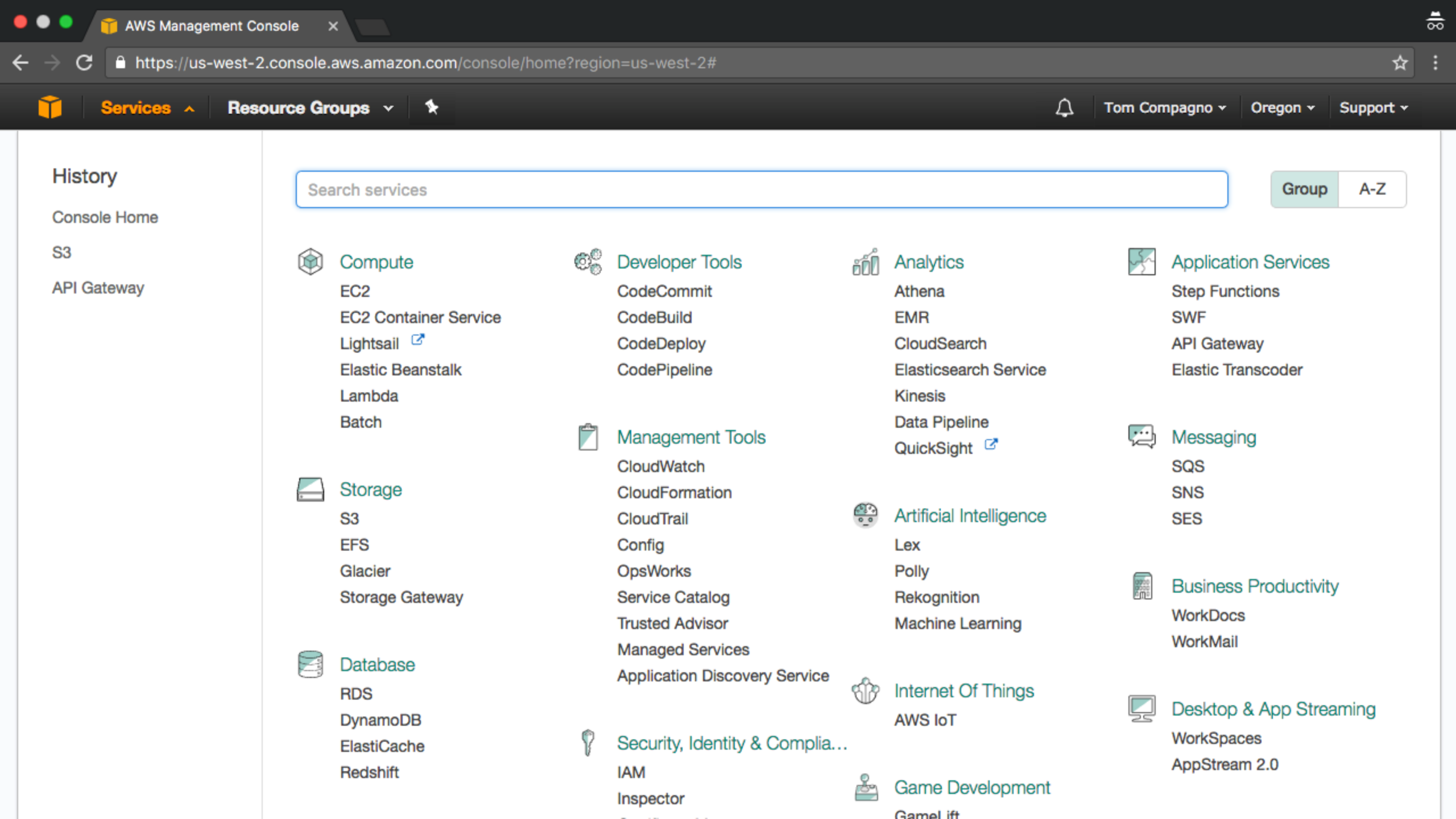
[View sending statistics.](#)



Configure Email Receiving

Set up rules that specify what you want Amazon SES to do with emails it receives on your behalf.

[Go to rule set creation.](#)



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A-Z



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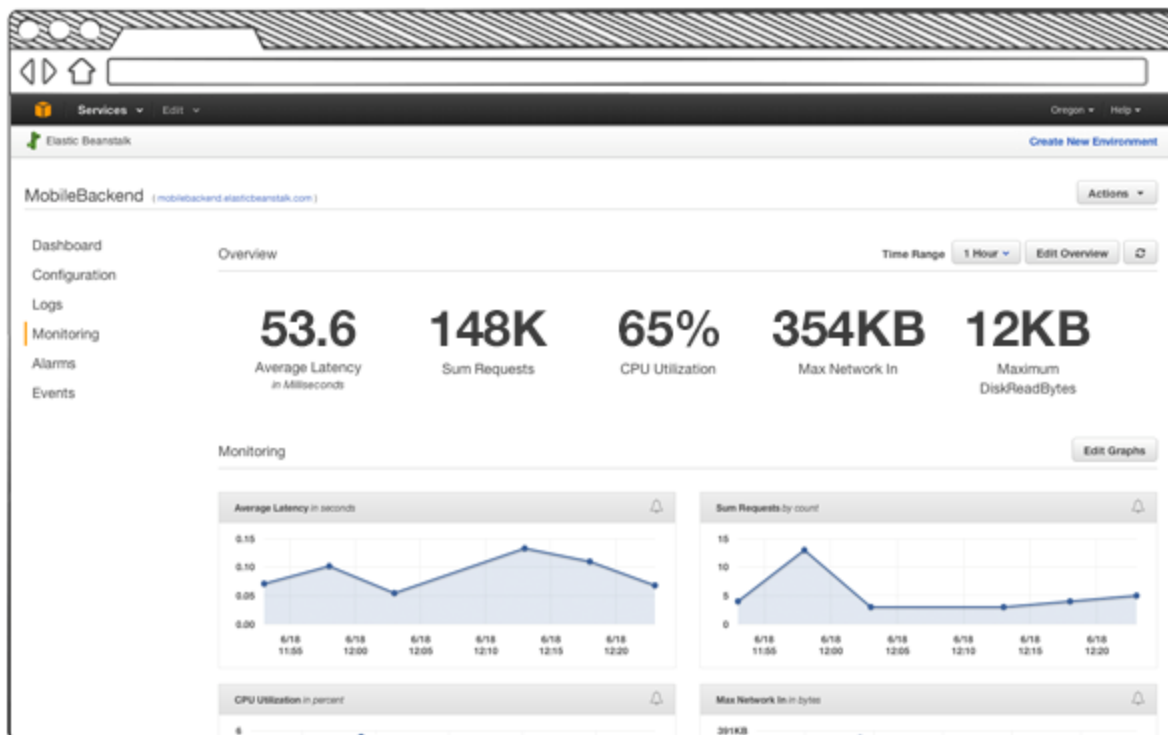
WorkMail



Desktop & App Streaming

WorkSpaces

AppStream 2.0



Welcome to AWS Elastic Beanstalk

With Elastic Beanstalk, you can **deploy**, **monitor**, and **scale** an application quickly and easily. Let us do the heavy lifting so you can focus on your business.

To deploy your **existing web application**, create an [application source bundle](#) and then [create a new application](#). If you're using **Git** and would prefer to use it with our command line tool, please see [Getting Started with the EB CLI](#).

To deploy a **sample application** with just one click, select a platform and click **Launch Now**.

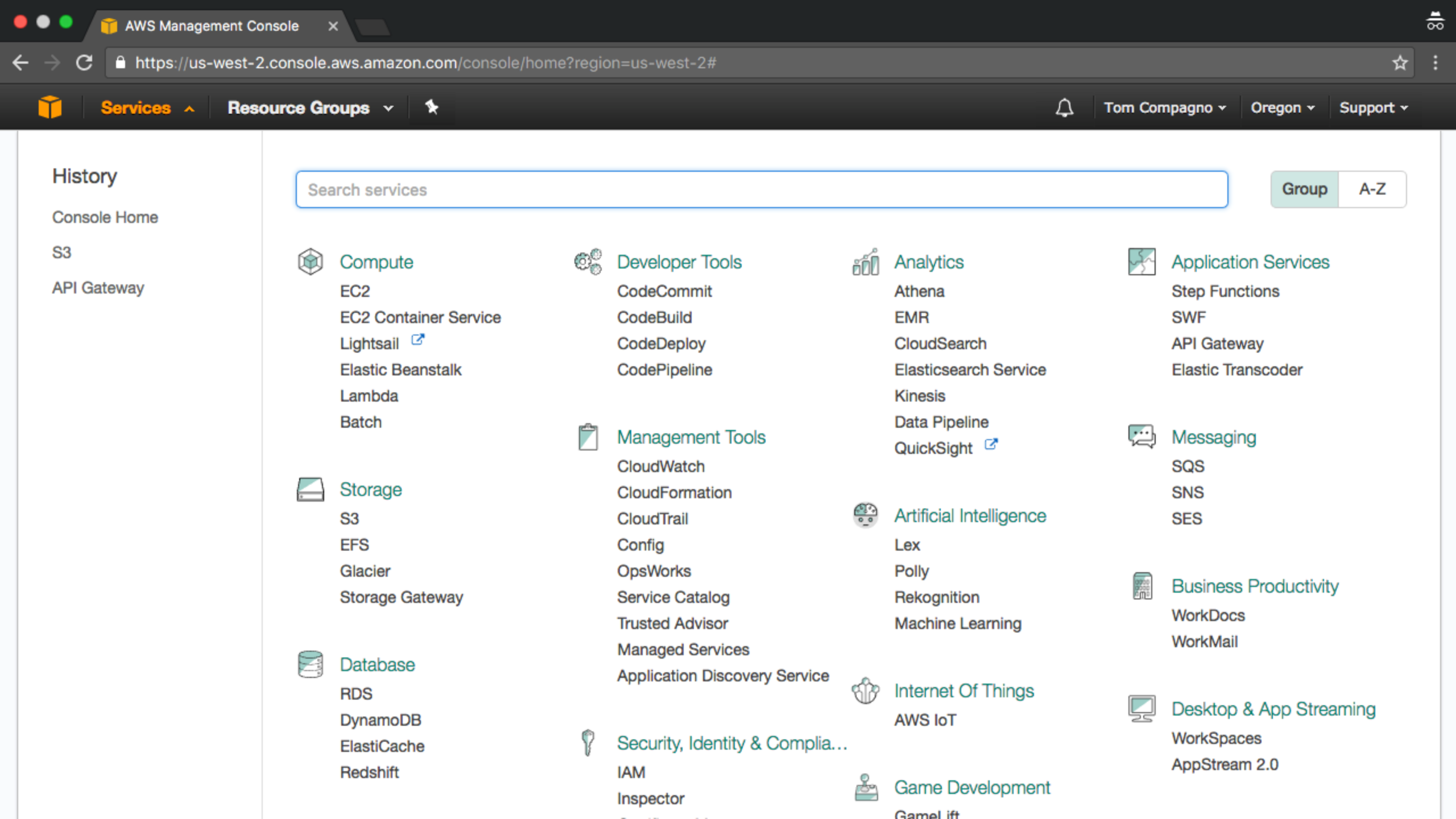
By launching the sample application, you allow AWS Elastic Beanstalk to administer AWS resources and necessary permissions on your behalf. [Learn more](#).

Select a platform

Looking for a different platform? [Let us know](#).

[Launch Now](#)

Get Started in Three Easy Steps



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Console Home

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API Gateway

Search services

Group

A-Z



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Search IAM

- Dashboard
- Groups
- Users
- Roles
- Policies
- Identity providers
- Account settings
- Credential report
- Encryption keys

Welcome to Identity and Access Management

IAM users sign-in link:
<https://854337666006.signin.aws.amazon.com/console> [Customize](#) | [Copy Link](#)

IAM Resources

Users: 1






Roles: 2

Groups: 1

Identity Providers: 0

Customer Managed Policies: 3

Security Status 2 out of 5 complete.

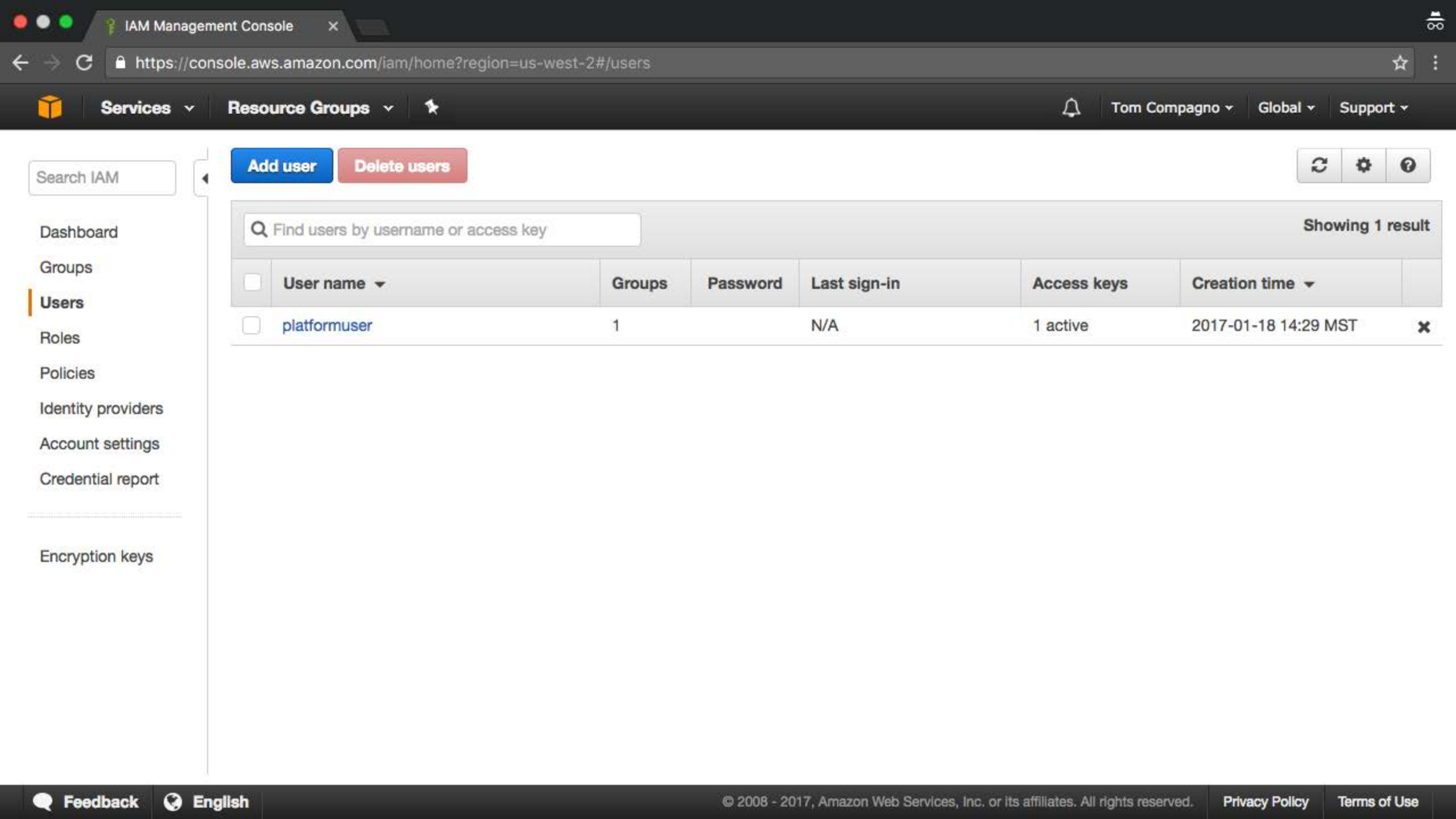
	Delete your root access keys	▼
	Activate MFA on your root account	▼
	Create individual IAM users	▼
	Use groups to assign permissions	▼
	Apply an IAM password policy	▼

Feature Spotlight



Additional Information

- [IAM documentation](#)
- [Web Identity Federation Playground](#)
- [Policy Simulator](#)
- [Videos, IAM release history and additional resources](#)



Search IAM

Add user

Delete users



Dashboard

Groups

Users

Roles

Policies

Identity providers

Account settings

Credential report

Encryption keys

Find users by username or access key

Showing 1 result

<input type="checkbox"/>	User name	Groups	Password	Last sign-in	Access keys	Creation time	
<input type="checkbox"/>	platformuser	1		N/A	1 active	2017-01-18 14:29 MST	x



Add user



Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

 [Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

- Access type* ☐ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.
- ☐ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Add user



Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

platform-user

[+ Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

- Access type*
- ☒ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☐ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Details

Permissions

Review

Complete

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

[+ Add another user](#)

Select AWS access type

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Enables a **password** that allows users to sign-in to the AWS Management Console.


* Required

[Cancel](#) [Next: Permissions](#)

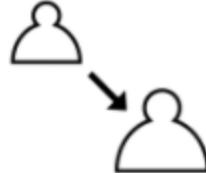
Add user




Set permissions for platform-user



Add user to group



Copy permissions from existing user



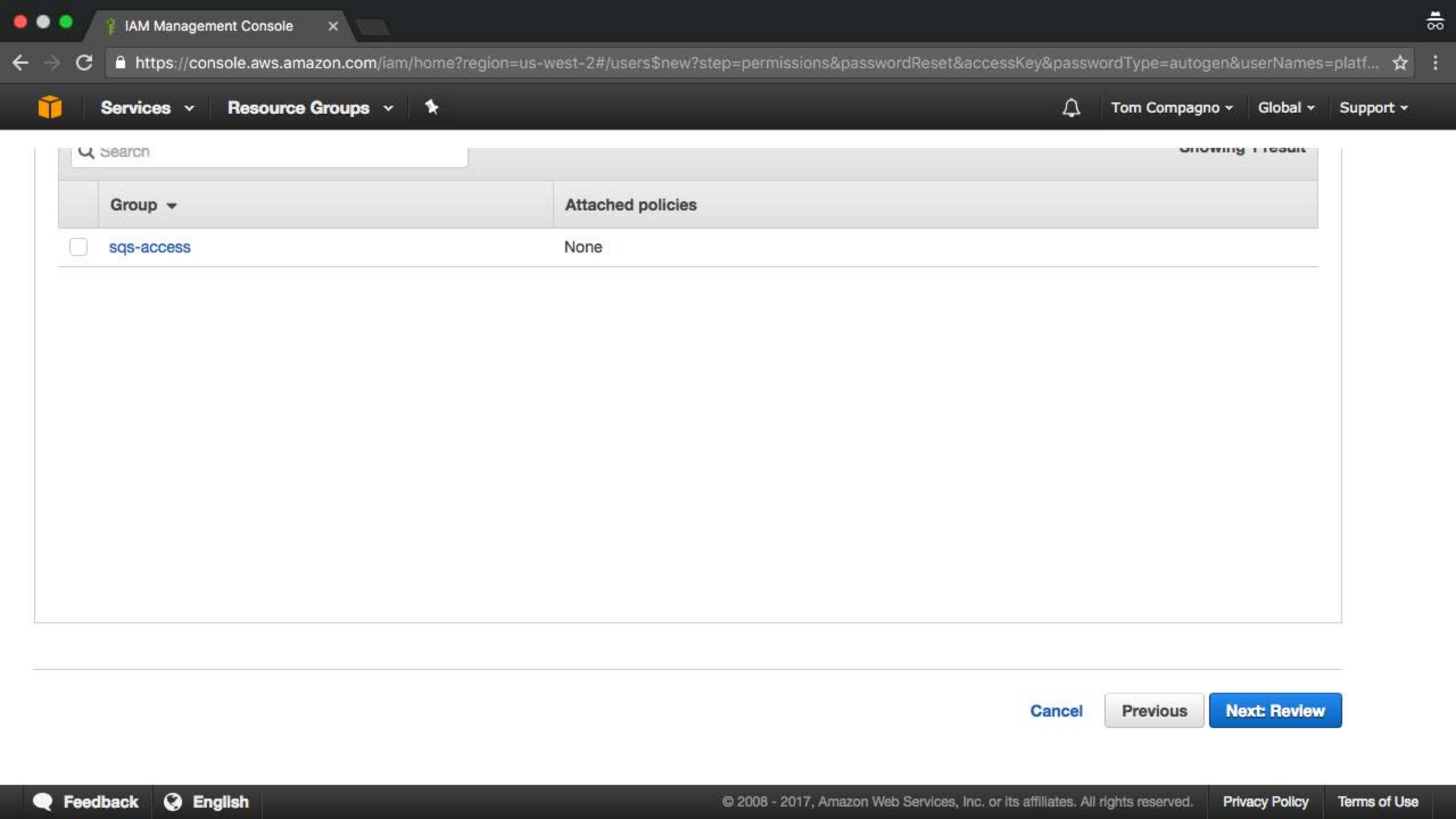
Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Create group Refresh

Q Search

Showing 1 result



Search

Showing 1 result

Group

Attached policies

☐ sqs-access

None

Cancel

Previous

Next: Review

Add user



Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.



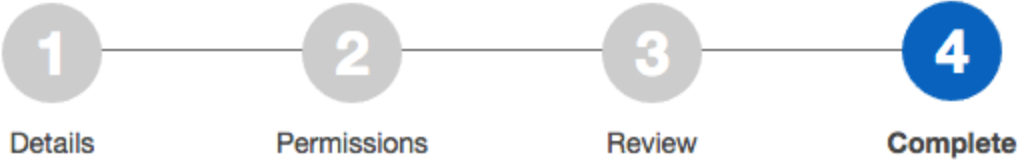
This user has no permissions

You haven't given this user any permissions. This means that the user has no access to any AWS service or resource. Consider returning to the previous step and adding some type of permissions.

User details

User name	platform-user
AWS access type	Programmatic access - with an access key

Add user



✔ Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://854337666006.signin.aws.amazon.com/console>

 Download .csv

	User	Access key ID	Secret access key
▶ ✔	platform-user	AKIAIMOOXFJOIURO47WA	***** Show

Close

Course Prerequisites

Install Python 2.7

- <https://www.python.org/download/releases/2.7/>

Install AWS CLI

- <http://docs.aws.amazon.com/cli/latest/userguide/installing.html>

Install AWS EB CLI

- <http://docs.aws.amazon.com/elasticbeanstalk/latest/dg/eb-cli3-install.html>

Install goLang 1.5

- <https://golang.org/dl/>



Additional Course Prerequisites



Sign up for a slack account

- <https://slack.com/create#email>

Sign up for a developer Salesforce account

- <https://developer.salesforce.com/signup>



Summary

Registered for an account

**Walked through various services
in the console**

**Reviewed prerequisites for the
this and future course modules**

