

IBM Bluemix demo - Mobile Quality Assurance (MQA)

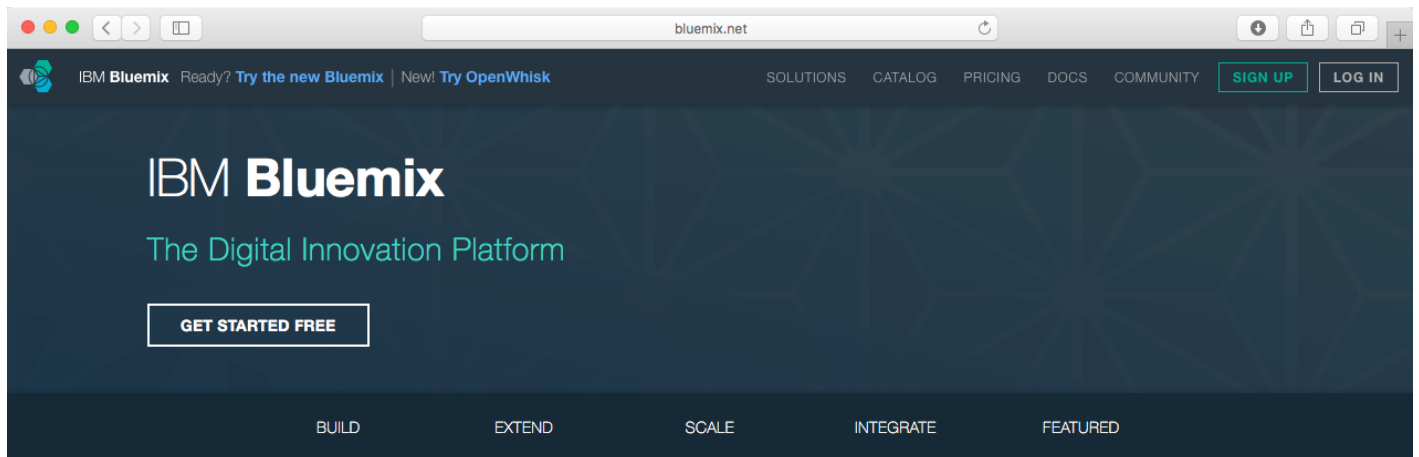
In this lab, you will demonstrate one key feature of the Mobile Quality Assurance service in Bluemix - Sentiment Analysis of user feedback posted on the public iTunes app store.

Pework

Make sure all these items are completed and working **before** you head into the demo. Also (and this goes without saying) make sure there is a working Internet connection available in the demo location. It's pretty much impossible to demo the Cloud without access to the internet...

Create a Bluemix account

1. Open a browser and visit <http://www.bluemix.net>
2. Press the SIGN UP button



Build your apps, your way.

Use a combination of the most prominent open-source compute technologies to power your apps. Then, let Bluemix handle the rest.

Instant Runtimes

App-centric runtime environments based on Cloud

IBM Containers

Portable and consistent delivery of your app without

Virtual Servers

Get the most flexibility and control over your environment

Display a menu

3. Complete the form and press the CREATE ACCOUNT button

console.ng.bluemix.net

Sign up for IBM Bluemix

Your 30-day trial is free, with no credit card required. You get access to 2 GB of runtime and container memory to run apps, unlimited IBM services and APIs, and complimentary support.

Already signed up for Bluemix? [Log in](#)

Email Address*

Phone Number*

First Name*

Password*

Last Name*

Re-enter Password*

Company

Security Question*

Select your country or region.

UNITED STATES

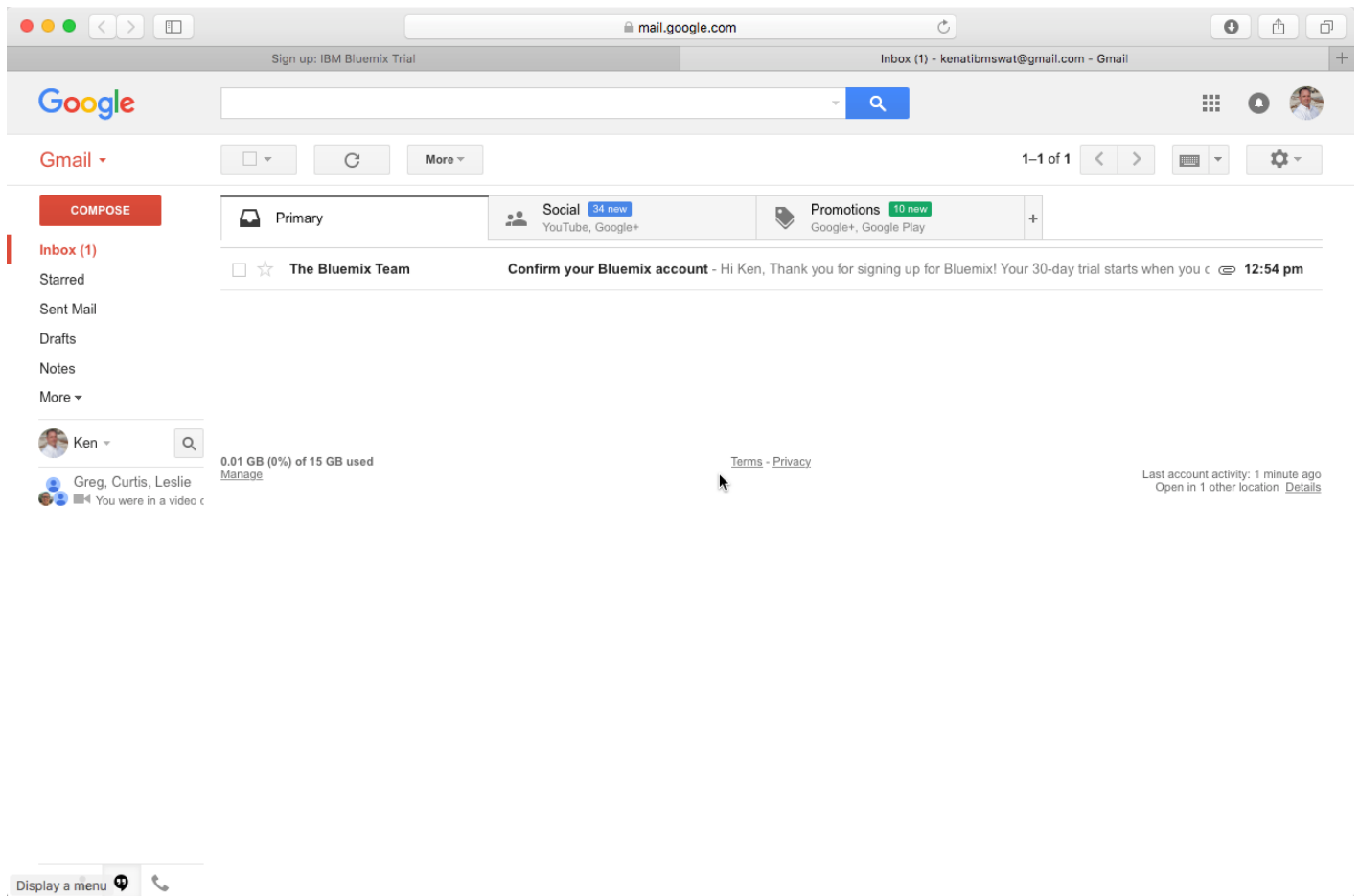
Keep me informed of products, services, and offerings from IBM companies worldwide:

☐ By email ☐ By telephone

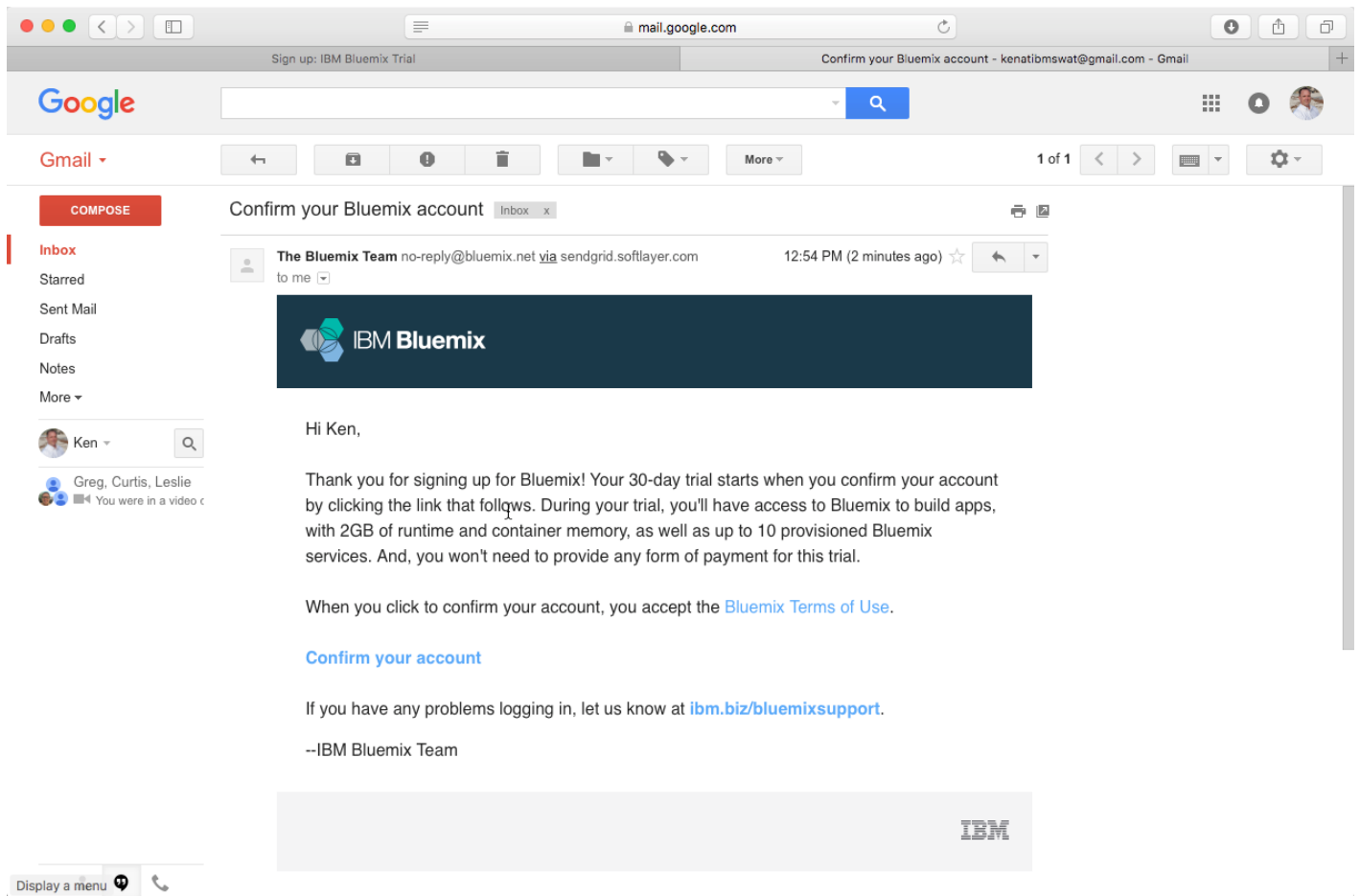
CREATE ACCOUNT

[Display a menu](#)

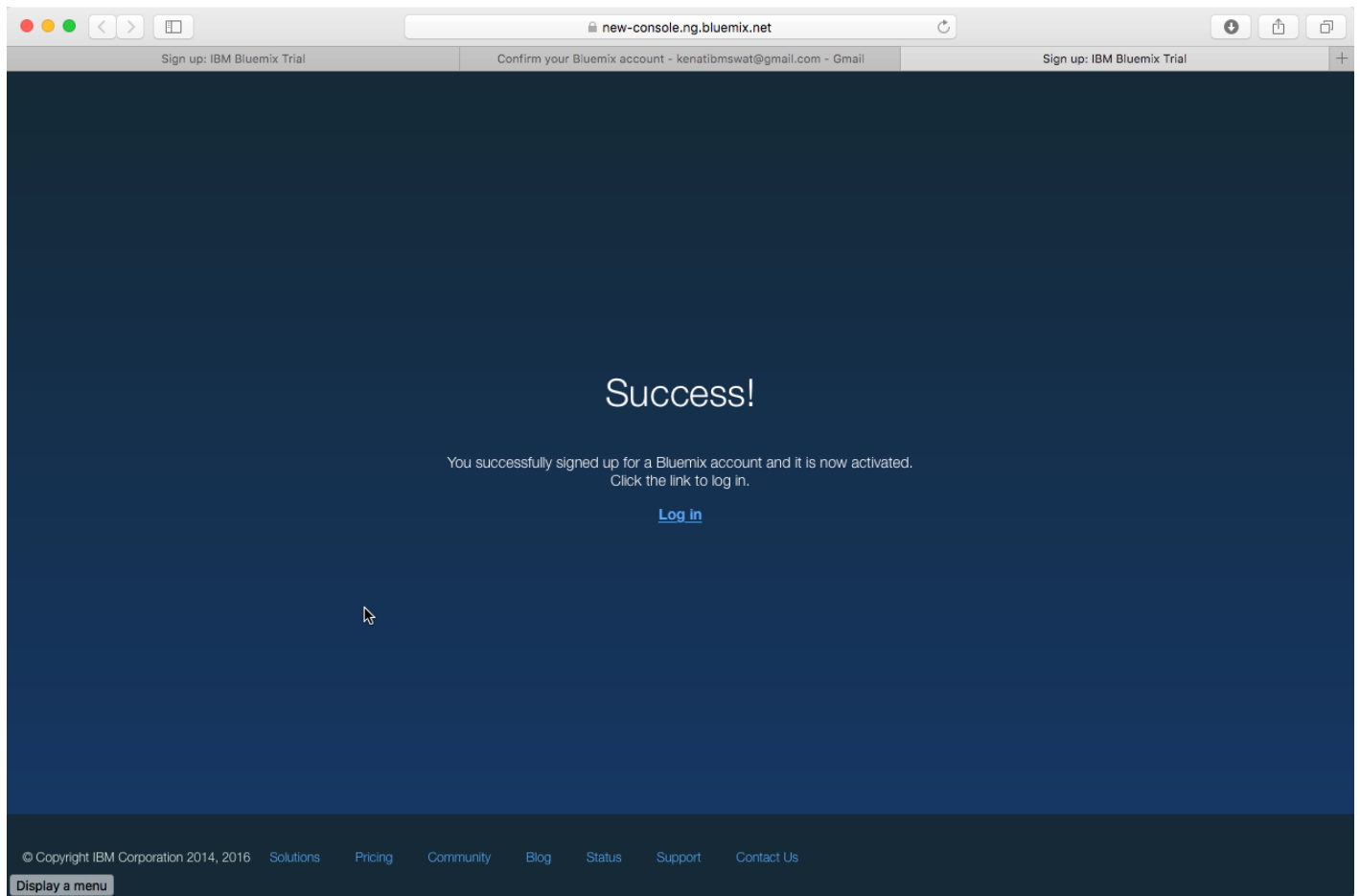
4. Check your email for your next steps.



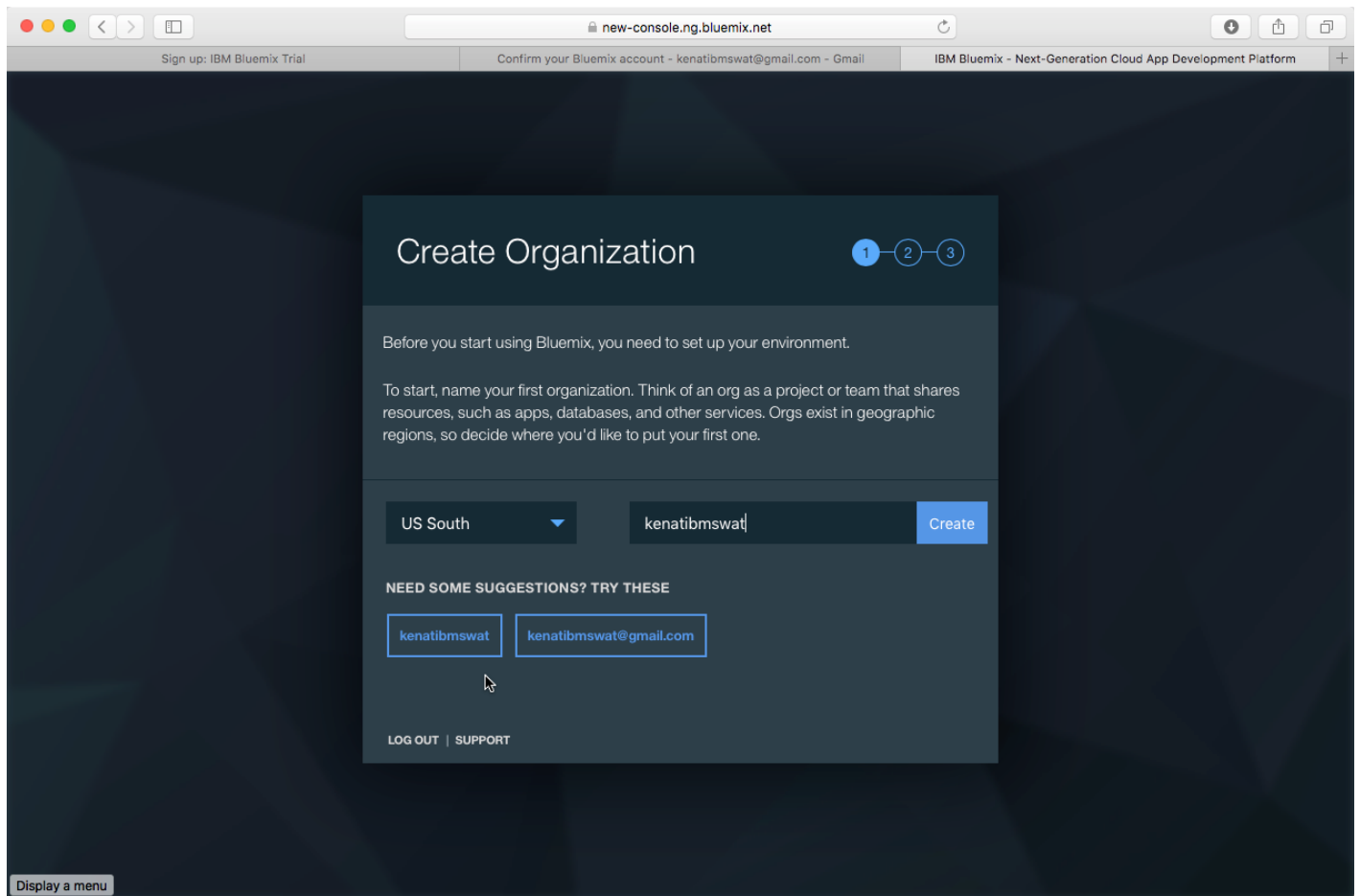
5. Open the email and click the Confirm your account link



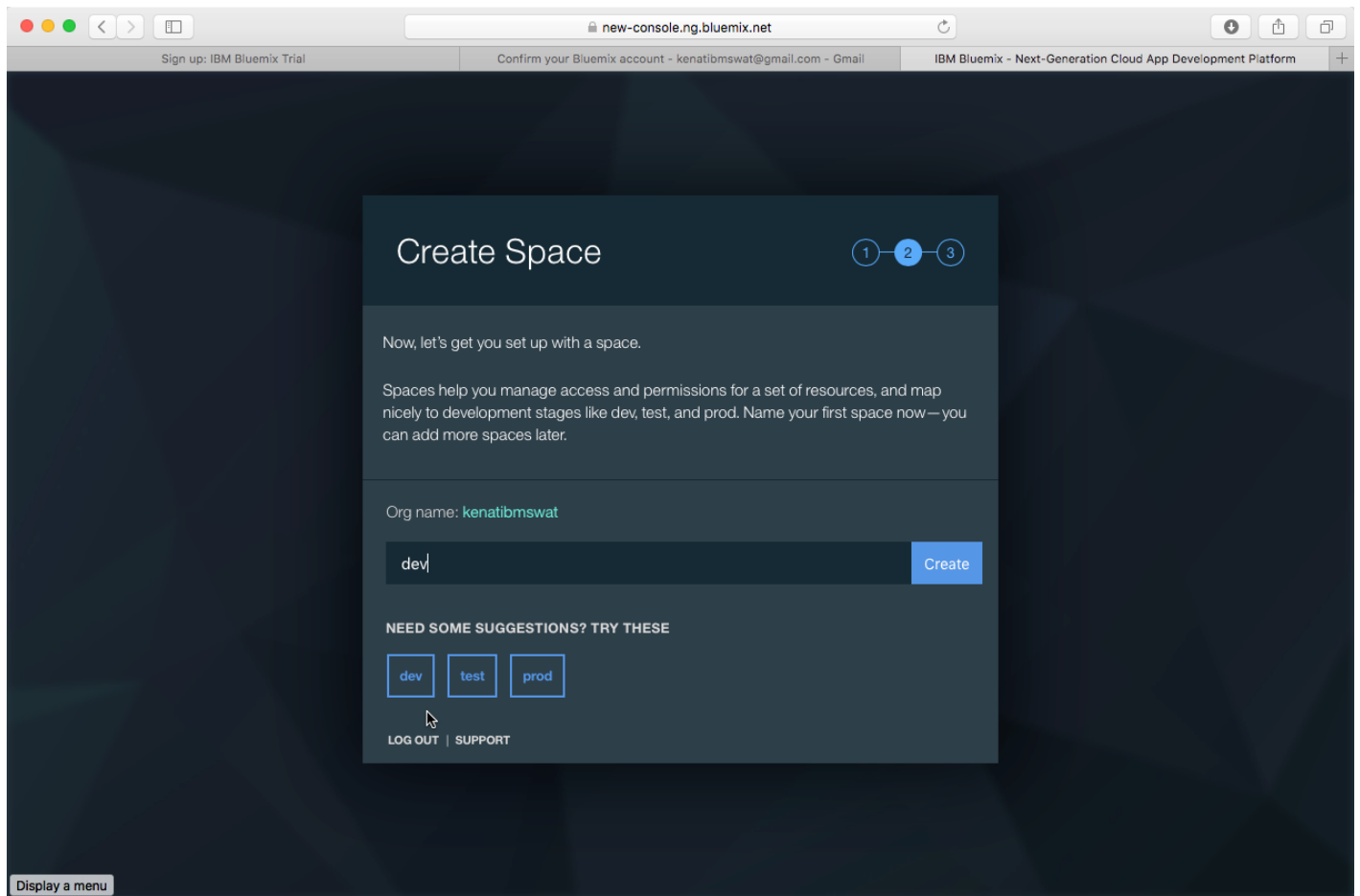
6. Once confirmed, you will be taken to a page that says Success! To login, click the Log In link



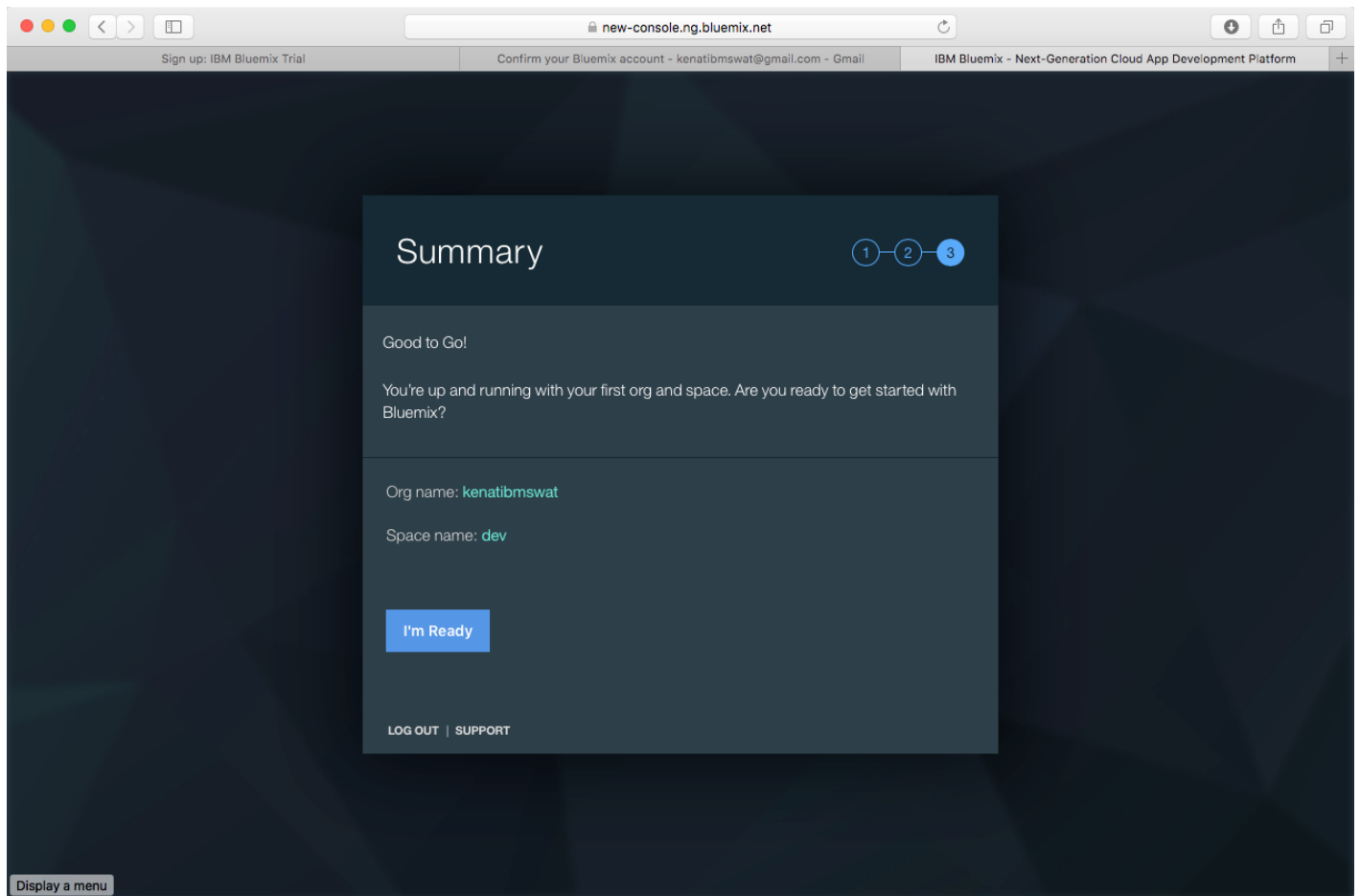
7. Enter your email address and press the CONTINUE button
8. Then enter your password on the next page and press the LOG IN button
9. You will be prompted to create an organization. Enter an organization name (notice that there are suggestions for you). This can be anything, but is typically an email address, since that can be guaranteed to be unique within Bluemix. Make sure **US South** is selected as the region. Press the CREATE button to continue.



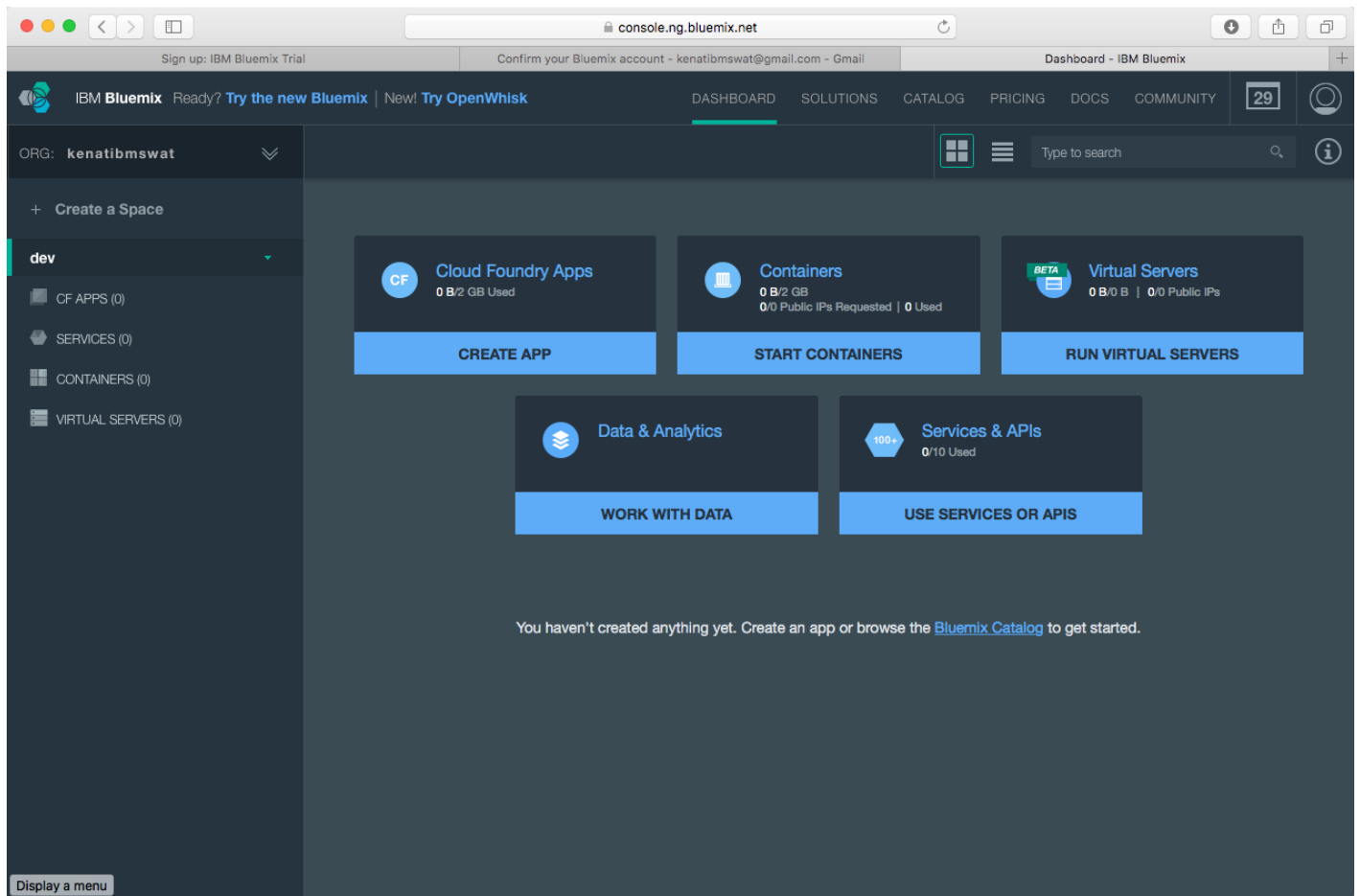
10. Next you will be prompted to create a space such as dev, demo, test, prod, etc. You can name it whatever you would like (again notice the recommendations). Then press the CREATE button.



11. Next you will see the Summary page where you can review your entries. Press the I'm Ready button

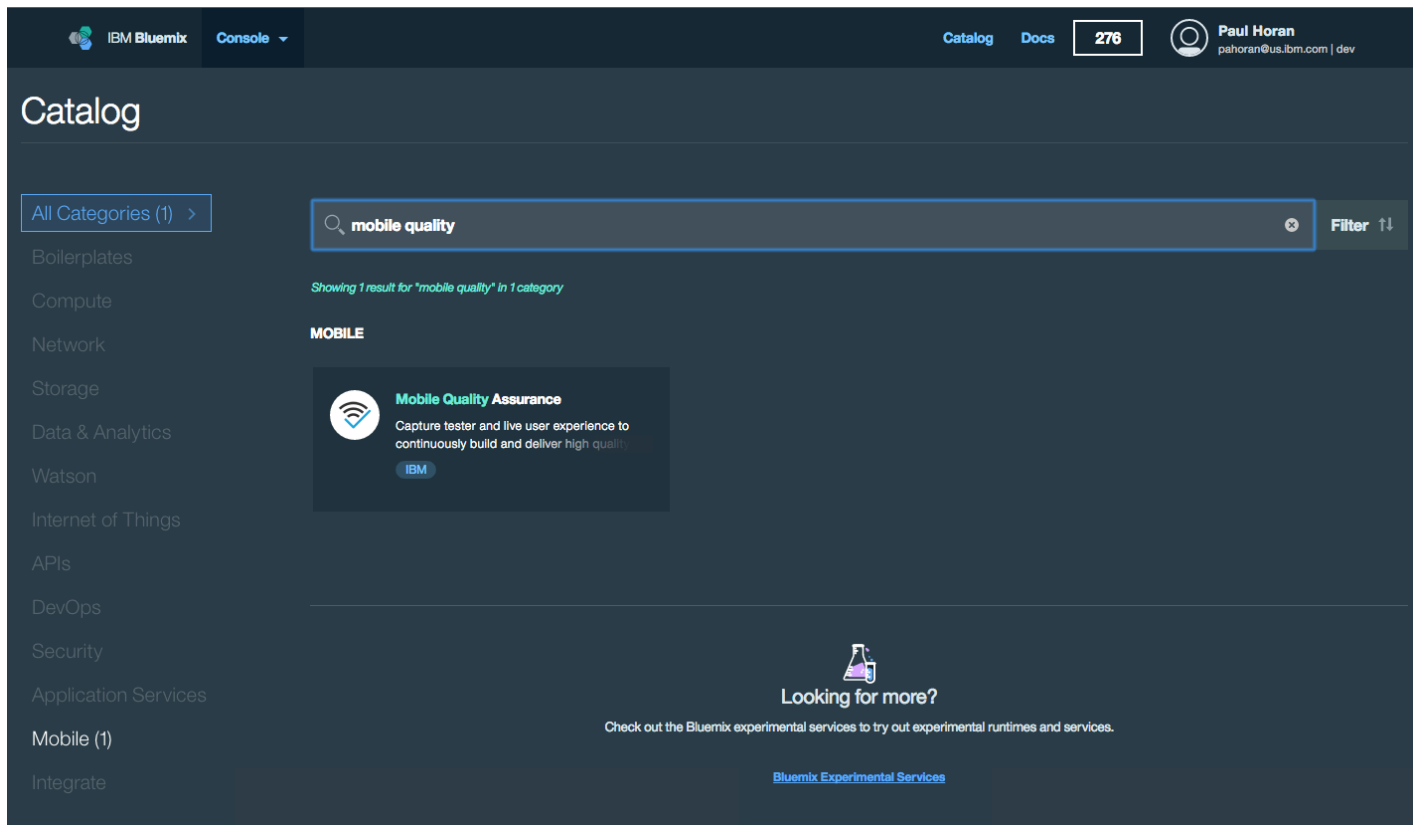


12. Once you see the following screen, your account has been created and configured.



Performing the Demo

1. Logon to your Bluemix account.
2. The Mobile Quality Assurance tile is located in the **Mobile** category. You can find it by navigating with the side-bar menus (click the Mobile category), or you can start typing **mobile quality** in the search field as shown below.



3. Click the Mobile Quality Assurance tile to open its properties page. The service name is provided for you, and there's no need to change it.

Here you can talk to the features that that are in MQA but will NOT be demonstrated. They are:

- Mobile Beta Management and Over-the-Air Distribution: As mobile projects are in the development & test phase, it's important to get updated builds into the hands of testers very quickly. MQA can function as a mini-app store for distributing these early builds to testers without having to post them onto the public App Stores, or physically tether the devices.
- In-app Bug/Feedback Reporting: With just a few lines of code, developers can instrument a mobile app with an entire feedback reporting mechanism. This allows testers and end users to provide feedback and submit enhancement requests right from within the mobile app itself. This includes the capability of capturing and annotating screen shots and full-motion video, along with textual descriptions of the bug or enhancement request.
- Automated crash reporting: When mobile apps crash, all of the contextual data about the physical state of the device at the time of the crash is lost. MQA can capture that information, such as battery life, OS patch level, Wi-Fi or mobile data signal strength, etc., and report that back to the development team automatically.
- Bug Tracking System integration: The bug reports, crash logs, and enhancement requests can be integrated with many popular bug tracking software packages, such as Jira, Bugzilla, and Rational ClearQuest.

← View All

Mobile Quality Assurance

Mobile Quality Assurance enables mobile beta management, mobile app testing, user validation, and streamlined quality feedback with sentiment analysis, over-the-air build distribution, automated crash reporting, in-app bug reporting and user feedback.

IBM

Service name: Mobile Quality Assurance-1y

Connect to: Leave unbound

[View Docs](#)

PUBLISHED 09/16/2016
TYPE Service
LOCATION US South

Features

- Mobile Beta Management**
 Create, manage and run an efficient mobile beta program. Solicit prospective beta users, customize beta programs and continuously engage with beta participants.
- Over the Air Build Distribution**
 Get the latest build in the hands of the testers and beta participants as soon as it is available.
- User Feedback and Sentiment Analysis**
 Get feedback about your app straight from your customers via API's, and mine app ratings and reviews to extract actionable insights.
- In-app Bug/Feedback Reporting**
 Submit defects and provide feedback in seconds while using the application from your mobile device. Add screenshots and in app screen videos.
- Automated Crash Reporting**
 Get aggregated crash logs from pre-production and production environments automatically.
- Bug Tracking System Integrations**
 Plug Mobile Quality Assurance into your existing test flow by integrating with a wide variety of bug tracking systems. (RTC, JIRA, TFS, Git-Hub, Bugzilla, Rally, etc)

4. Scroll lower on the page to show the two different pricing options:

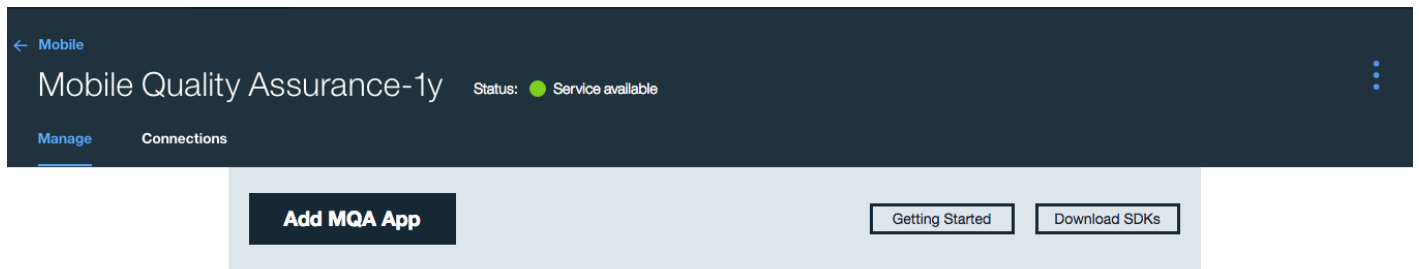
- Standard Plan: \$199 per mobile application, plus \$.02 per addressable device with the first 100 devices free. Great for small distributions or a single application.
- Premium Plan: \$3000 per mobile application, with unlimited number of users/devices.

Pricing Plans Monthly prices shown are for country or region: [United States](#)

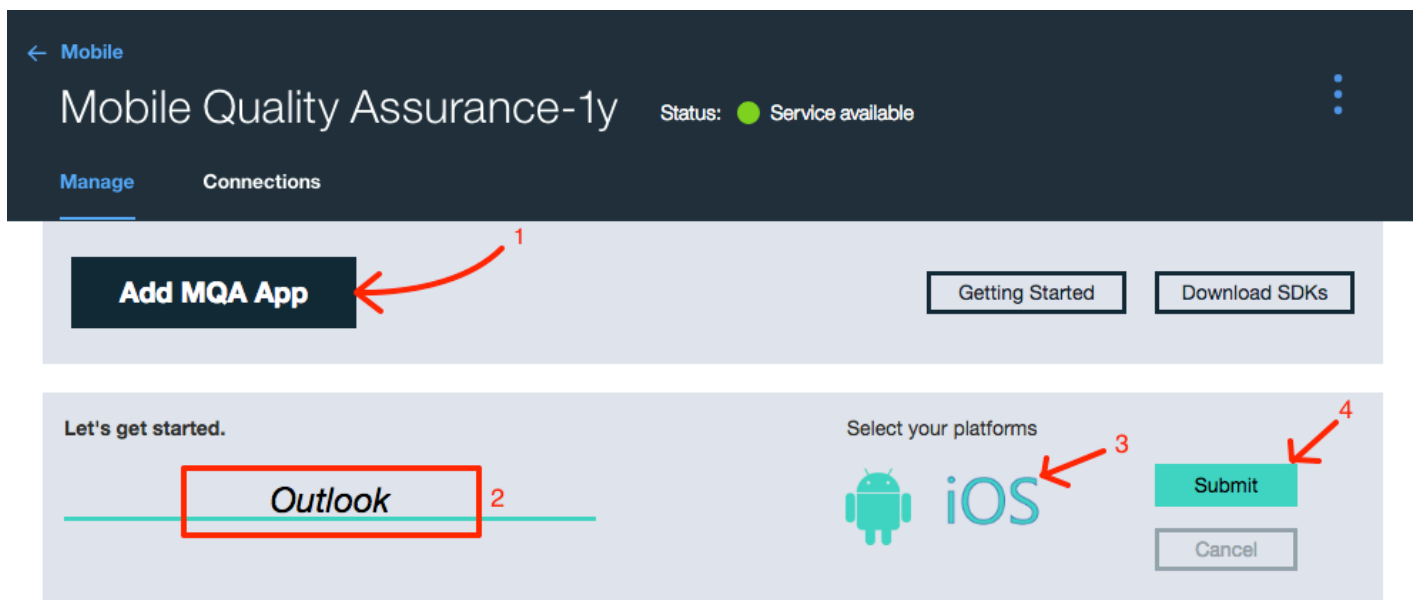
	Plan	Features	Pricing
✓	Standard plan	100 free devices per application-platform	\$199.00 USD/application-platform \$0.02 USD/addressable device
Mobile Quality Assurance (MQA) services are charged based on the number of application-platform combinations and the number of devices on which each app is running.			
	Premium plan	Unlimited devices for an application-platform	\$3,000.00 USD/application-platform

5. Click on the big blue **CREATE** button at the bottom of the page to provision the MQA instance. You should see the following screen, with the green dot labeled **Service Available**. The two buttons on the right [Getting Started](#) and [Download SDKs](#) are links to the Developer Center. The SDKs are available for the following mobile platforms:

- Native iOS and Android
- A Cordova plugin for hybrid mobile apps
- Javascript (for non-Cordova HTML5 apps)



6. Click the black button labeled **Add MQA App**. That will expand the current screen, where you can fill out the Application Name and choose a mobile platform. Even though we won't be building a mobile app in this demo, we still need to provide a name. We'll be doing Sentiment Analysis against popular mobile calendar apps, so let's call the application "Outlook". Type that in the Name field, and click the **iOS** image. (You'll notice that the border of the iOS text gets a little bolder when it's selected.) Then click the **Submit** button.



7. Next, you'll see the following image. To enable Sentiment Analysis, click the hyperlink near the bottom of the screen that says **Configure Sentiment Analysis**.

Add MQA App

Getting Started

Download SDKs

Data was loaded at: 10:45:58

▼ Outlook ⚙

Add Platform

iOS

Outlook

Preproduction
(Last 7 days)

0
Sessions

0

0

0

Production
(Last 7 days)

0
Sessions

0

0

Registered Devices
(Oct 1, 2016 to Oct 11, 2016)

0

Sentiment Score

Sentiment Analysis is not configured.
[Configure Sentiment Analysis.](#)


Upload Builds

Show app key

Distribute to Test

Configure Integrations

8. That opens a new page in the browser, and loads the MQA Application Settings page. If we were going to build a mobile app and instrument it with the MQA feedback software, the *APP Key** is the link back to Bluemix so that it knows where to store the collected feedback. The only thing we have to do on this page is click the **Active User Sentiment integration** checkbox.



Outlook

No current build

Dashboard

Management

Preproduction

Production

Settings

App Settings

Branding

Notifications

Integrations


User Sentiment

APPLICATION SETTINGS

App name:

Outlook

App creator:

 Pahoran (pahoran@us.ibm.com)

APP Key:

1g924fde7793cd4ab2eade1f1354bce668b5a6b1beg0g2g4c6i

The key is a unique identifier of your app. It is used by the devices reporting to IBM MQA to open sessions.

☐ Regenerate key

WARNING: This will break compatibility with existing application builds.

Application default language:

English

This is the language used in distribution mailings by default

User Sentiment Integration

Integration status:

App Analytics is **not active**.

☐ Activate User Sentiment integration


9. As soon as that checkbox gets turned on, a new section of the screen will appear. A dropdown list is populated with public app store apps whose name or category matches the name you've given the MQA app (in this case, "Outlook".) There is also a dropdown where you can select the App Stores from other countries, but let's leave this as **US**.

User Sentiment Integration







Integration
status:

App Analytics is **not active**.

☒ Activate User Sentiment integration

 US ▼

Outlook

- ☒  Microsoft Outlook - email and calendar
- ☐  Sunrise Calendar - An Outlook App
- ☐  Mail+ for Outlook
- ☐  Cleaner Pro – Remove Duplicate Contacts for iCloud Gmail Outlook & Yahoo contacts
- ☐  Inbox Pro, Outlook Edition
- ☐  UpTo Calendar - Syncs with Google Calendar, iCloud, Outlook and more

Load more

10. Select **Microsoft Outlook - email and calendar**, then scroll all the way to the bottom and click the **Save Settings** button. Again, all the other settings here (In-App Tutorial, SDK Logging levels...) are only pertinent when we're instrumenting a custom mobile app with MQA. We can ignore these for this demo.

In-App Tutorial

☒ Enable in-application SDK tutorial.

Help your users to discover in-app reporting functionalities provided by our SDK. Supported on mobile SDKs 3.1+.

SDK Logging

Minimum
logging level:

☐ Verbose

☒ Info

☐ Warning

☐ Error

☐ Fatal

☒ Include logs from emulators

Changing above settings won't affect currently running sessions.

Log messages
about:

☒ Power

☐ Custom

☒ Networking

☒ Screen

☒ System

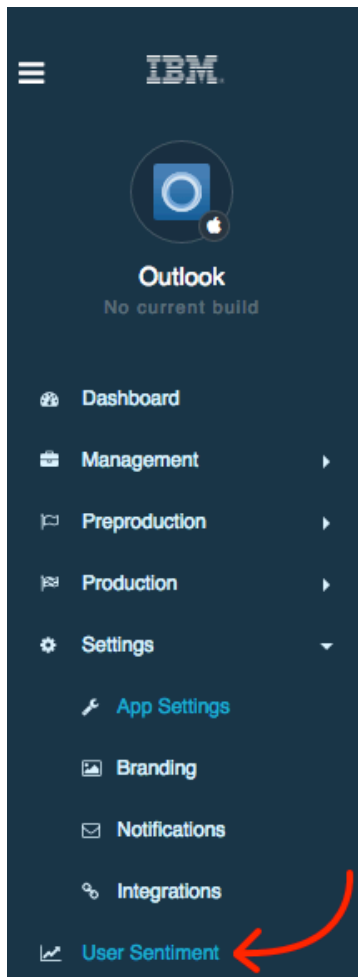
☐ Telephony

☐ Location

Changing above settings won't affect currently running sessions.


Save settings

11. Click the **User Sentiment** link near the bottom of the menu panel on the left side.



APPLICATION SETTINGS

App name: Outlook


App creator:  Pahoran (pahoran@us.ibm.com)

APP Key: 1g0c622900415eeb587c68bcf16fb766d27b954adag0g2g2d7i

The key is a unique identifier of your app. It is used by the devices reporting to IBM MQA to open sessions.

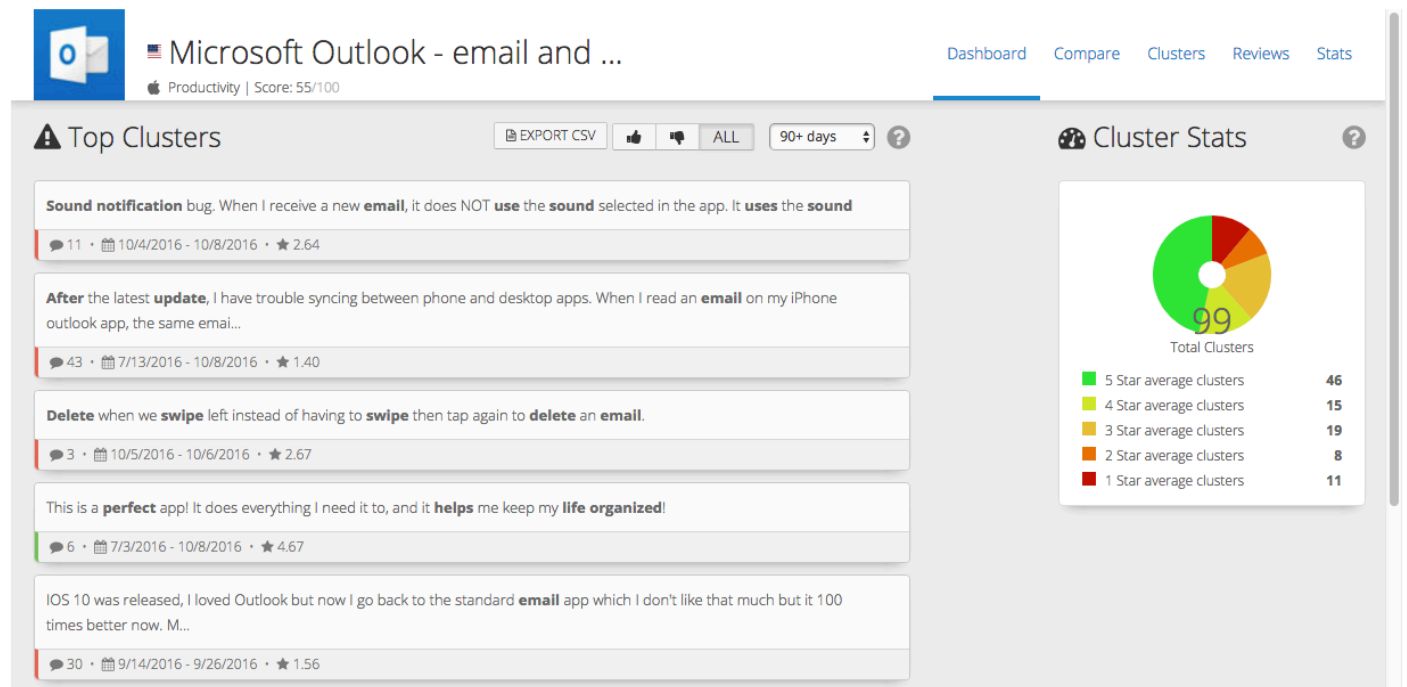
☐ Regenerate key

WARNING: This will break compatibility with existing application builds.

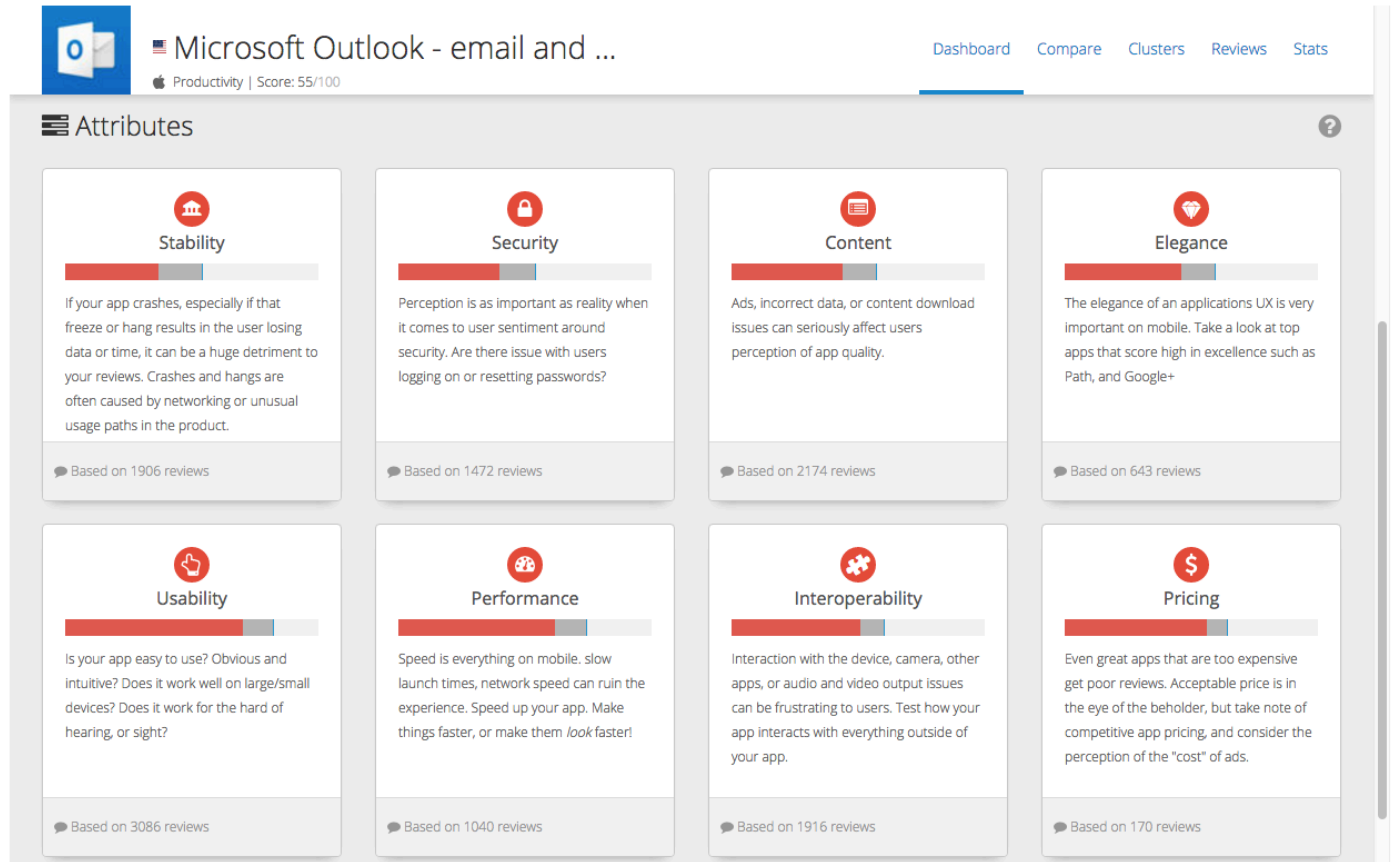
Application default language: English 
This is the language used in distribution mailings by default

User Sentiment Integration

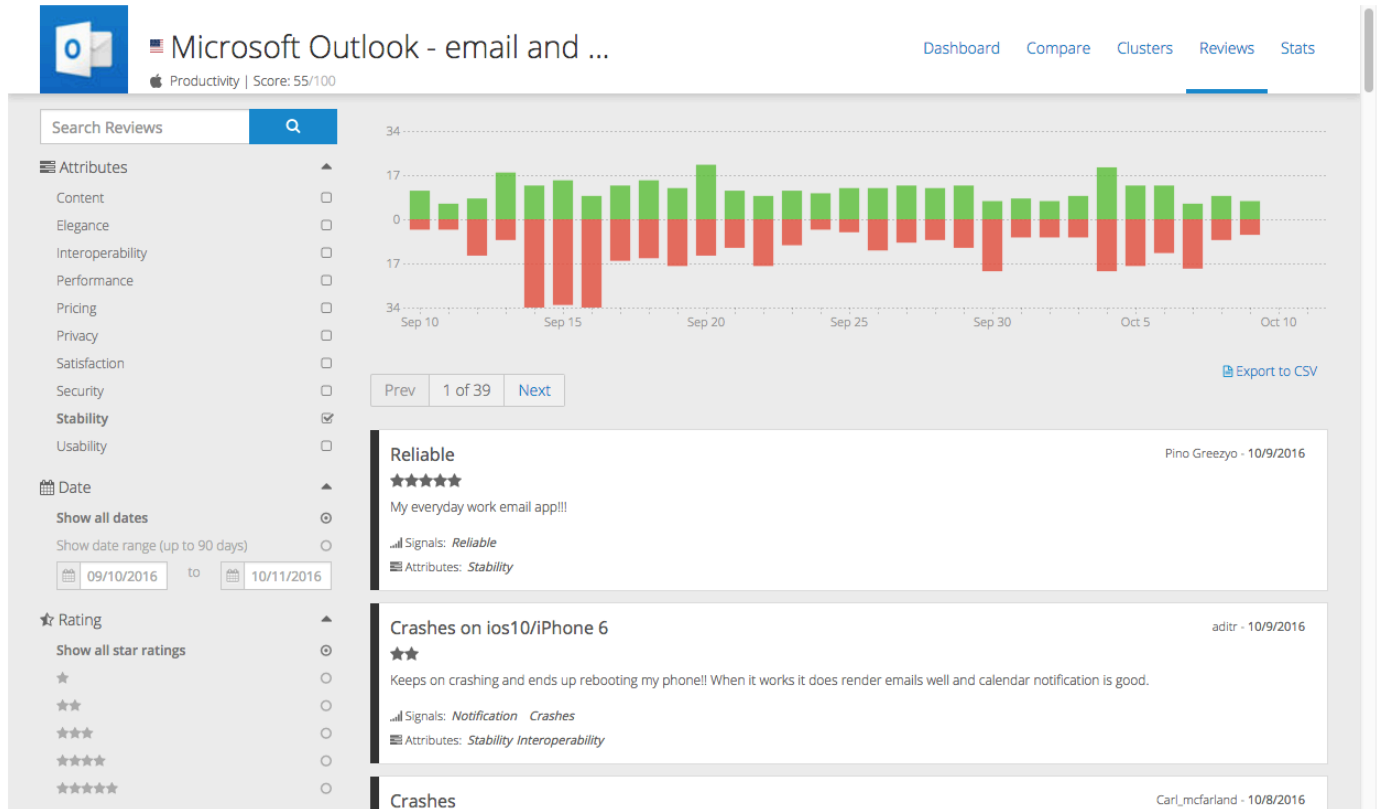
12. You're now in the User Sentiment analysis dashboard. The data that is being analyzed here comes from the Reviews posted on the public app stores for the selected app. The reviews are grouped into clusters by rating level and assigned a color based on sentiment. You can change the date period, or look for positive or negative reviews only. And the data can be exported to CSV format for analysis in external tools like Excel.



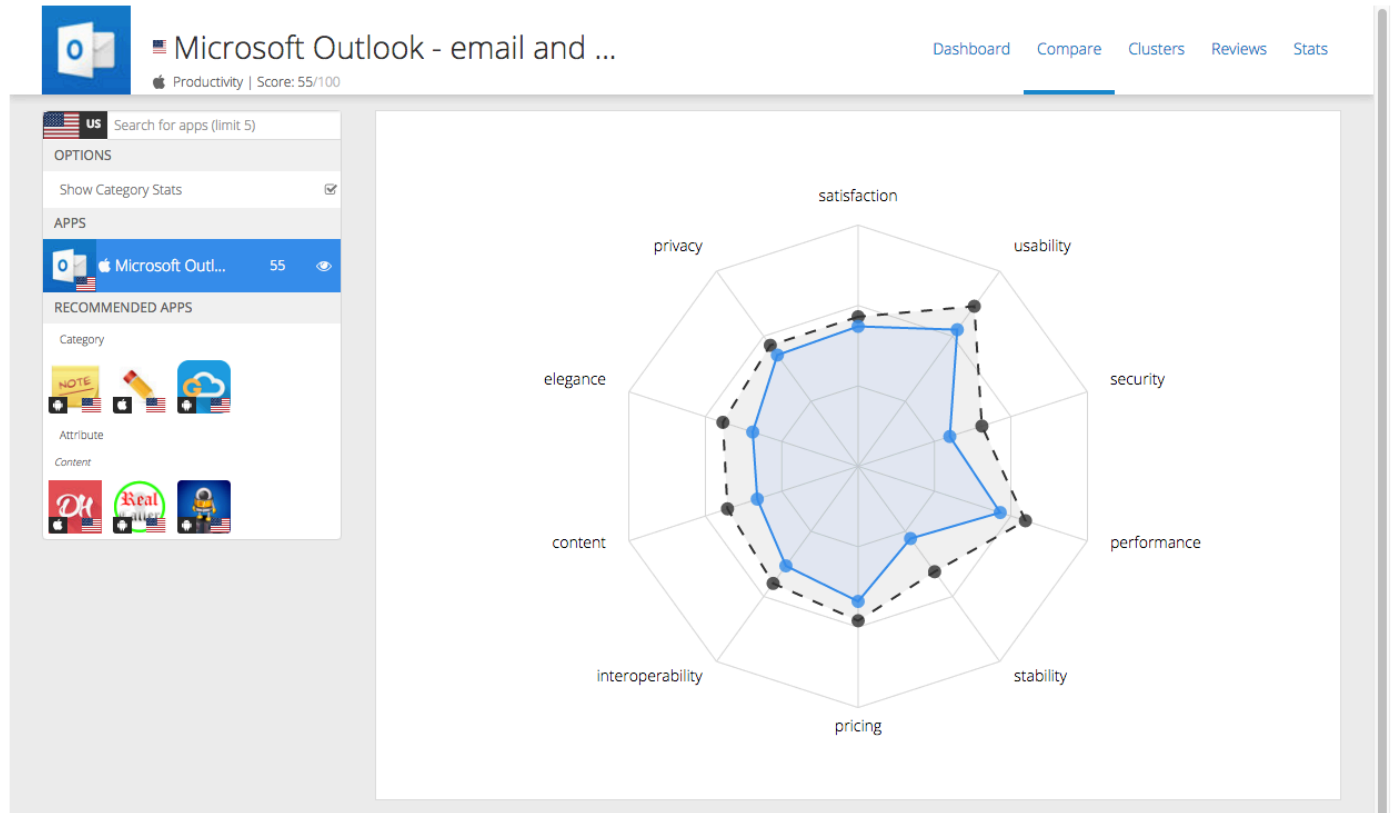
13. Scroll down farther to see the reviews broken out and assigned into ten Attribute categories. For each category, the red line shows the current app's rating and the gray bar represents the industry averages for that category.



14. You can click on any of the Attributes to drill down into the Reviews detail data. This is an interactive screen. You can click the checkboxes next to any of the Attributes to add them to the analysis. You can change the dates, or include/exclude Star rating levels. The graph at the top reflects positive or negative reviews posted over the date range, and changes dynamically to reflect the selected data.



- Click the Compare link at the top of the screen (between **Dashboard** and **Clusters**). This uses a Spider graph to graphically depict the sentiment across the different Attributes. It starts with just the Outlook app loaded (the blue line), and it compares that to the industry averages in the sector (the black line).



16. Find other calendar apps to compare with Outlook. In the Search box, enter the word "calendar". A list will be populated with other calendar apps from the App Store. Select **Google Calendar** and **Tiny Calendar**. Their data will be superimposed onto the spider graph, to easily visualize how they compare to Outlook. This can be an important guide for Product Management, to assess the weaknesses in their mobile app vs. their main competition.



Microsoft Outlook - email and ...

Productivity | Score: 55/100

[Dashboard](#) [Compare](#) [Clusters](#) [Reviews](#) [Stats](#)

US calendar

OPTIONS

Show Category Stats ☒

APPS

	Microsoft Outl...	55	
	Google Calenda...	43	
	Tiny Calendar ...	62	

RECOMMENDED APPS

Category

Attribute

Content

