Editors' picks: Top 10 Bluemix tutorials - Winter 2015

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It's hard to believe how far we've come with Bluemix in the past year! Since then, IBM has announced a host of new IBM, third-party, and open source services and runtimes you can use to build, deploy, run, and manage almost any kind of application you can dream of. And over here at developerWorks, the editorial team has been working closely with top cloud and services experts to create a full library of quick-starts, tutorials, videos, and demos to show you what you can do with Bluemix and its services, and teach you how to do it quickly and easily.

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Over here at developerWorks, the editorial team has been working closely with top cloud and services experts to create tons of quick-starts, tutorials, videos, and demos to show you what you can do with Bluemix and its services, and how to do it quickly and easily. With such a wealth of information available, I thought it might be helpful to regularly highlight a few of our favorites illustrating various Bluemix solutions.

Don't see your favorite here? Have ideas for creative ways to use Bluemix and want to share them on developerWorks? Let me hear from you!

**Bluemix is about choice and flexibility: Mix and match private and public services**

In this short video, you'll learn how Bluemix Dedicated can help you build applications around your most sensitive data and deploy them in a dedicated cloud environment. You can use Bluemix Dedicated to realize the benefits of the cloud while avoiding the compliance, regulatory, and performance issues associated with public clouds.

Watch the video
Track the world's top newsmakers with IBM Watson and Bluemix

Popular online news aggregators make it easy to find and drill down into top new stories for a particular topic (politics, finance, and so on), but they don't provide an efficient way to focus on newsworthy people. Our People in the News (PITN) app fills this gap by aggregating current and recent news articles about the top newsmakers and giving you an at-a-glance view of who's trending in the news.

In this tutorial, you'll create and deploy your own version of the app, which is a Node.js-based news aggregator built with Bluemix DevOps Services using the Watson Relationship Extraction service and the Cloudant NoSQL DB service.

Read the tutorial

Improve decision-making in process apps with the Bluemix and Watson services

This two-part tutorial series teaches you how to integrate the Bluemix Watson Question and Answer service with a sample business process management app. Using Watson's cognitive capabilities, BPM app users can consult the business corpus using natural language queries to supplement decision making. You can even record the advice from Watson to enhance user productivity and business process efficiency.

Part 2 shows you how to integrate the Bluemix Watson Personality Insights service to help businesses process potentially noisy social media and automatically extract portraits of individuals that reflect their personal characteristics. The service provides a set of core analytics for discovering actionable insights about people and entities. You can use the derived insights to guide highly personalized engagements and interactions to better tailor your products, services, campaigns, and other communications.

Read the tutorial

Build a mobile app in 10 minutes using drag-and-drop

In 10 minutes, you can use drag-and-drop to build a mobile-friendly app with no programming required! In the example in this quick-start tutorial, you'll create a small application to remind you where you parked your car, using the RapidApps development environment on the IBM Bluemix cloud platform.

Read the tutorial

Analytics for Hadoop on Bluemix

With IBM Bluemix, you can have a Hadoop instance running in the cloud in minutes. IBM's Analytics for Hadoop Bluemix service enables you to use IBM's Hadoop offering, IBM InfoSphere® BigInsights™, to power the latest mobile and web applications. You can also quickly deploy a single cluster of BigInsights in Bluemix, so that you can start playing with Hadoop directly on the cloud.
In this four-part tutorial and video series, Larry Weber shows you how to sign in and access the Analytics for Hadoop service, use the BigInsights console, load data into BigInsights, and explore data with BigSheets.

Read the tutorial

**Build a chat app with Pyramid, SQLDB, and Bluemix**

Have a basic understanding of Python? Want to develop web apps from scratch and deploy them to the Bluemix cloud platform? This is the tutorial for you! Learn about development using the Pyramid framework and its security model, real-time communication using Socket.IO abstraction, and integration with SQLAlchemy. SQLAlchemy provides an easy way to integrate with database services in the Bluemix environment. Adding one feature at a time, you'll create a chat app that enables users to exchange messages in real time.

Read the tutorial

**Build a connected-car IoT app with Geospatial Analytics**

Most IoT apps consist of three pieces: a connected thing, an application to view and manage the thing, and analytics to detect events triggered by the thing. The IoT Foundation service on Bluemix makes it trivially easy to connect a thing to applications and analytics services. To demonstrate how easy it is, Bryan Boyd built an IoT starter kit for connected cars that consists of three pieces: a vehicle simulator (a Node.js app) HTML5 applications to view and manage vehicles on a map, the Bluemix Geospatial Analytics service, and Node-RED for analytics.

In this tutorial, Bryan guides you through configuring and deploying the Connected Vehicle starter kit on Bluemix and building analytics with the Geospatial Analytics service and Node-RED.

Read the tutorial

**Build a real-time marketing app with Node.js and Bluemix Mobile Web Push**

In this tutorial, Bob Balfe shows you how to create a generic web page that can receive marketing content from the Bluemix Mobile Push server and display that content in the campaign manager. He'll demonstrate how you can build a basic Node.js application that uses Push technology to push marketing content to the web application.

Read the tutorial

**Create a natural language question answering system with IBM Watson on Bluemix**

This tutorial shows you how to build an application that interacts with Watson by using the Bluemix Watson Question and Answer service. This app, called Watson Films, allows users to ask
questions about films, especially the American Film Institute top 100 American films, and about filmmaking in general.

Read the tutorial

Monitor mobile devices with the Geospatial Analytics service

The Internet of Things connects billions of devices already, and it's growing rapidly. Many of these devices, such as smartphones and connected vehicles, are mobile. Awareness of the location of on-the-move devices opens up exciting new application opportunities. Support for these new applications requires highly scalable services that can analyze high volumes of data in real time.

With the Bluemix Geospatial Analytics service, you can monitor moving devices from the Internet of Things. The service tracks device locations in real time with respect to one or more geographic regions. In this tutorial, you'll learn how to get, run, and extend a starter application written in Node.js that uses the Geospatial Analytics service to monitor the location of mobile devices.

Read the tutorial

Conclusion

These are just a few of our favorites. You'll find tons more technical resources for Bluemix on developerWorks. I'll be back in the spring (if it ever gets here!) with some more recommendations for you.

With the Bluemix platform and its many services and runtimes, and developerWorks know-how and sample apps, it's never been easier to build and deploy your apps in the cloud!

READ: A year of Bluemix: Top 10 apps

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