DevOps tools for Continuous Integration and Real Time Error Monitoring

<u>Continuous Integration Tool: Buddy</u>

<u>Description:</u>

Buddy is a commercial DevOps automation platform allowing for continuous integration and deployment feedback. It is specifically for projects that work with code from Bitbucket and Github repositories. Buddy has 24/7 support and an enterprise version allows for self-hosting on a server.

<u>Unique Value Add:</u>

- New features added every week
- 5x lower failure rate after deployments
- 12 seconds average deployment time
- Instinctive UI; this means less time spent searching and more time spend doing.

Quick deployment time coupled with new features and lower failure rates mean our team can deploy faster and catch errors more quickly. In addition, the constant addition of features means Buddy is a rapidly developing and current tool adapting to the frequently changing developer world.

<u>Notable Features:</u>

- All plans include docker layer caching, concurrent pipelines and steps, vCPU and RAM scaling, reusable environments, repository caching, artifacts caching, and changeset-based deployments.
- Ability to make corrections to the developed code

The features included in Buddy make it easier for developers to catch and correct errors. The tools included help us to understand what is happening and respond quickly. Couple this with 24/7 support and you have a tool that is easy to use, navigate and interact with, making it all around easier for our team to use and enjoy.

<u>Set-up Review:</u>

The Buddy documentation utilizes an intuitive UI with easy to follow links and subject areas for support. Link to documentation. Set-up is easy, simply connect through GitHub or Bitbucket to connect to the various project repositories. The process to set-up and get started is easy and there are various quickstart guides depending on the language being utilized. There is a live chat feature in the event that you need immediate support on something. Users can also sign up for the Buddy Digest which delivers weekly best practices and changelongs to users.

Quick Setup:

- Link GitHub account with Buddy
- Select repository you'd like to connect as a new project
- Having trouble? Check out the special guides for help

Buddy History:

Buddy launched in 2015. Notable companies using Buddy include Rauten, Six Flags, DocPlanner, and Flow. Currently, Buddy is utilized by 27 companies and accounts for 0.08% of the total market. Although there are many CI tools out there, Buddy consistently ranks high among users for its intuitive nature, continues improvement and development of new features and customer support.

Real Time Error Monitoring: Raygun

Description:

Raygun is a user-centric tool that provides insights into errors and crashes impacting users. It monitors the full tech stack in real time including client-side and server side, as well as desktop and mobile. It finds every error, who was affected and where they experienced the error. Raygun allows its users to dive into each line of impacted code in order to diagnose what went wrong and why.

Unique Value Add:

- 180 day data retention
- Support for all major languages and frameworks
- Works seamlessly alongside Real User Monitoring and APM for full visibility into the users digital experience.

A 180 day data retention would allow our company time to delve into the unique errors, process them and find solutions. In addition, the support for all major languages and frameworks make this tool easy to integrate into our workflow. Lastly, the ability to get insight into the user experience would allow us to change or modify our code to best serve our customer base.

<u>Notable Features:</u>

- Ability to see the exact line of code that caused an error
- Filter through your errors by date, time, version, tag, host, OS, browser, custom tags, and more
- Easily integrate into GitHub

The ability to see the exact line of code causing the user problem means a quicker turnaround time for solutions. In addition, the ability to sort through errors with various tags would allow us to get a broad understanding of what, or when a user is experiencing, identify and issue correct and solve issues more quickly for our users.

<u>Set-up Review:</u>

Getting started with Raygun is easy. They provide an easy to follow getting started guide that is simple and easy to follow. In addition, there are easy to follow guides based on the framework being used. The interface for the user is intuitive and has a nice flow. The company also has webinars to help with understanding their product and how best to use it.

<u>Raygun History:</u>

Raygun was founded in 2007 and currently has 483 customers and makes up about 0.01% of the total market. Notable companies using Raygun are Target, Coca-Cola, Samsung, and Microsoft. Users can see other customer stories on their website. IN 2018 the company launched Application Performance Monitoring & Management service - Raygun APM. The rollout of APM and seamless integration through GitHub have made it even easier for companies to monitor and track their code to ensure best performance in their platforms for their users. Raygun is dedicated to making it easier for developers to pinpoint and debug code quickly.