Case Studies Genera

## Embracing On-prem Delivery with DevOps, Jama Software

By Marc Campbell



The video above is a talk from the DevOpsDuys Seattle 2019 event. In the presentation, Maarika Krumhansi, an Engineering Hanager at Jama Software, describes the company's evolution to create a continuous deployment pipeline to both Sais and on operen environments by leveraging Dover and Replicates. Me've acpured some of the highlights below, but this video is a much weach for any traditional software company making the leap from delevering a monothic on-prem product or offerings both a multi-tenant Sais hosted version of the application alongside a modern, reliable and scatable installable offering.

Nearth includes a pretty significant warning up front (52) about the trials and tribulations of managing both a SSAS and one-prevention. Her advice to to add dispin opened; at all possable, finates building your protect much more complex, with harder requirements and more demanding outstoners. Despite what we do at Replicated, we agene (Offering on pretts in office every SaSC compress out there, we don't recomment it as a "Soe-off "dide project, we believe it meets to be a core part of a modern software company's statege, Only the companies that pals to deploy to tens, hundreds, or thousands of on-peren outstoners, are risporous about automation and have the meens to employ someone to streamline the support process should even consider it.

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"If you can't avoid on-prem, limit complexity." Maarika Krumhansi, Jama Software

Maarika also explained how Jama Software previously relied on two workflows (139) for each deployment that consisted of monthly releases to their SaaS oustomers, and bi-annual releases to on-prem customers. This is the essence of the comploxity, as it was a less than optimal waterfall process that took horte force to produce onprem releases. At the same time, they were running into scaling issues from customers pushing the limits of thei SaaS application.

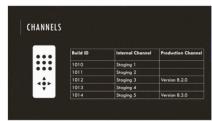
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"Additionally, we were seeing some customers in our cloud environment starting to push the limits of what are vertically scaling application could handle, and in fact, our business strategy was to start going after more of those larger customers, those enterprise scale customers for our cloud offering...at the same time we had to continue to offer an on-prem solution to those customers"

Maarika Krumhansi, Jama Software

Knowing the business strategy was to continue approaching large enterprise organizations, they needed to solv both scaling issues and less painful on-premises deployments. The first step was taking their morelithic Java application and packaging it into Docker containers. For more details on Jama Software's more to Docker read "Jong Board Docker". Jama was now left to deliver a horozontal scaling architecture, alongside setting the stage for providing the same application to on-prem customers.

In the video, we see why Jama Software chose Replicated as the mechanism for shipping their container-based application to on-prem customers (1627). Replicated allows, Jama Software to deliver the same containers they use in their Cloud environment to private instances on whatever throadware customers warn. This ensures both SasS, and on prem customers receive a high quality application without doubling the engineering effort.



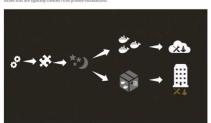
Replicates's federace Channels plan an essential role in recluding the complexity of Jama Software's deployme efforts (fill), Jama Software simultaneously puches we Ooder image to their Cloud environment and Replicated's Private upine Replicaty. These puches get tagged to an Unitable Release Channel, which makes staping versions available to Jama Software's Dev and Qol team, Withers a release is ready for production, Jama Software simply promotes a release to the Safe Channel. Existing oper mountowns review update notifications in their soft-hosted admin console, and with one click can perform upgrades or test releases in sauthore environment.

## CC

"Making the commitment that we were going to ship the docker containers to both our Cloud and On-prem customers, and then leveraging a 3rd party tool to do on-prem container orchestration, has greatly simplified the process of supporting a dual deployment model."

Maarika Krumhansi, Jama Software

Serving new on-prem customers got a lot easier. Jama Software provides a simple installation script and Replicated handles the delivery and configuration, even if customers aren't familiae with Docker. During an installation, Replicated's Pherlight Checks enview a whole category of support tissues never even arise (1722a) by testing a customer servinoment for things like OS version, memory, disk space, Replicated minimizes support



Maarika wraps up her talk by sharing how Jama Software practices continuous delivery of their application to SaaS and On-prem customers (24:17). Both Jama Software's customers and engineering team have seen hugi benefits, as on-prem deployments have become routine.