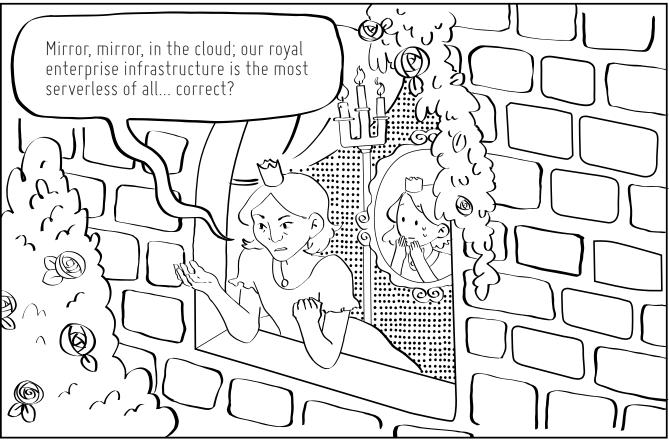
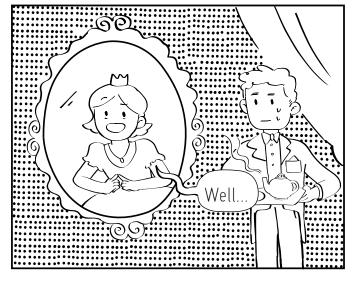


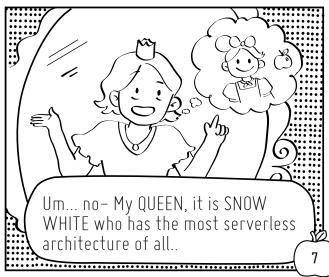


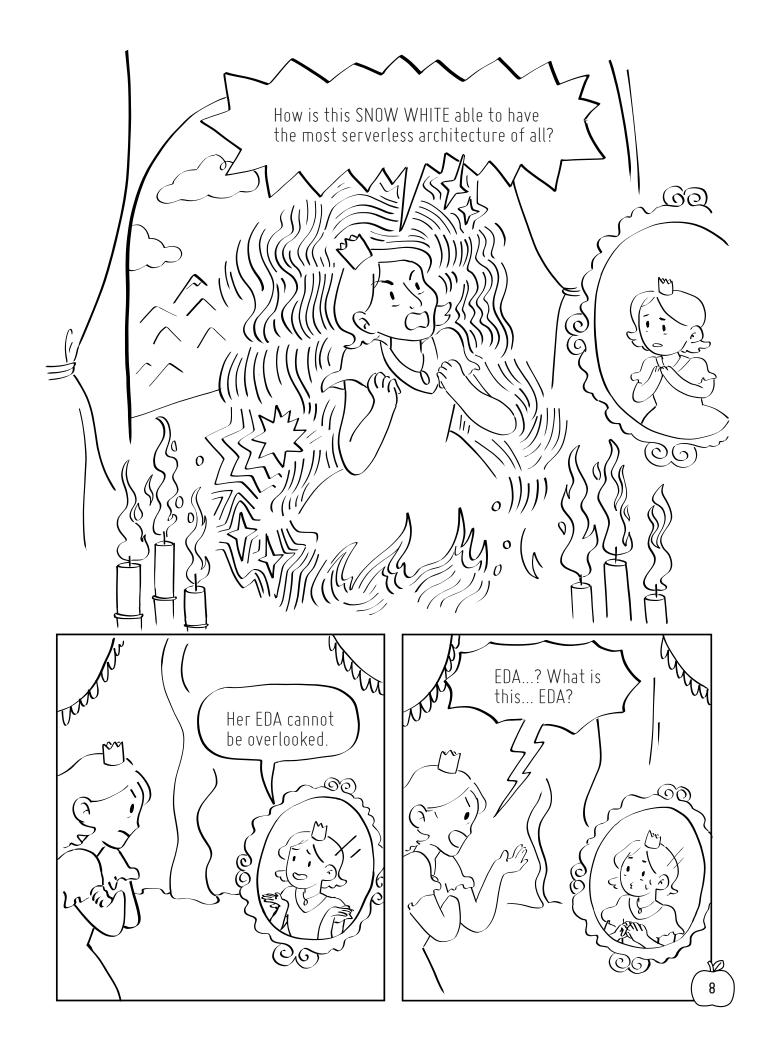


Serverless doesn't mean there are no servers, MALICIOUS. It means applications don't run 24/7-they only run if they are needed and stop when they are not. It results in a more efficient allocation of resources—and the cakes and pies are always fresh.









EDA— Event Driven Architecture. It's an application model based around real—world events rather than manual or periodic requests. Her bakery's architecture can scale, stop, & deploy applications based on business—related events.



For example, this past
Autumn when customers
were scared of her spooky
pumpkin pies— she was able
to roll back on production.

When the winter holidays rolled in a few months later, the production for cranberry pie & regular pumpkin pie was scaled up.

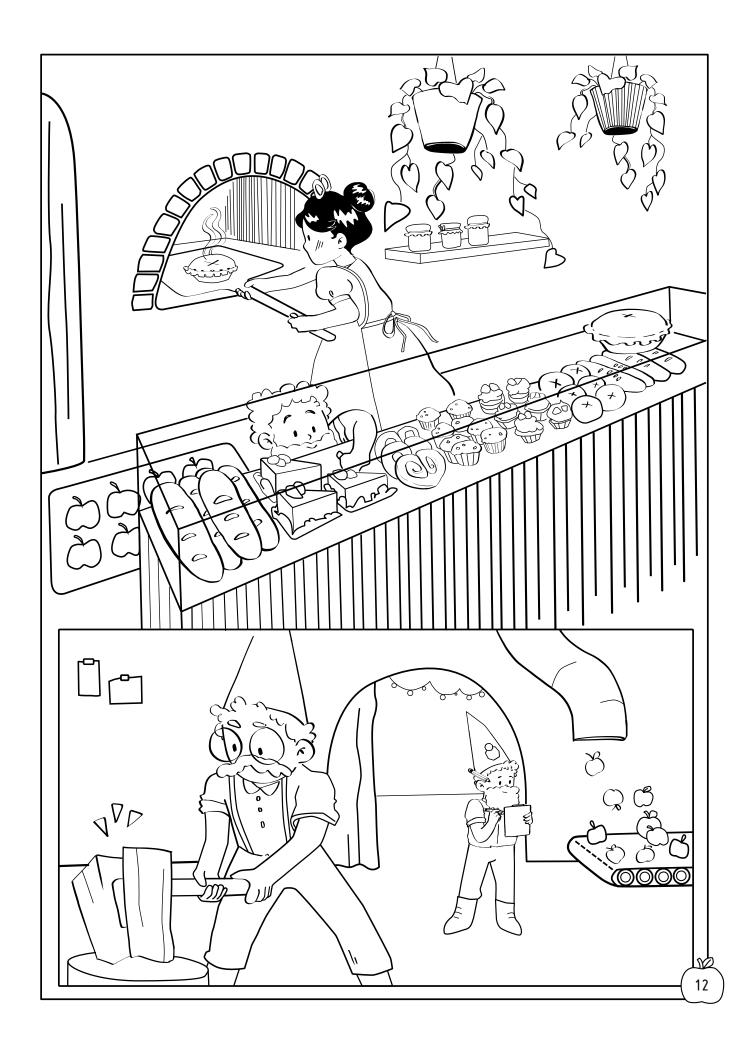


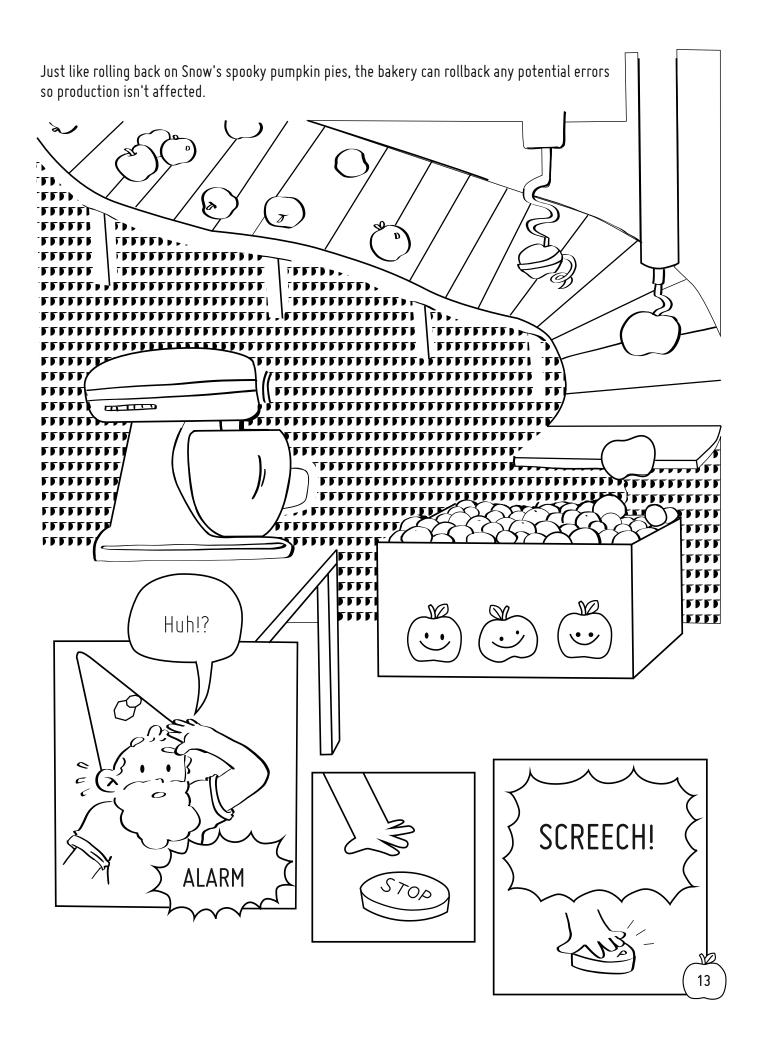
After the holidays, everyone is so full of pies and leftovers that they scale down to zero pies for as long as they need.







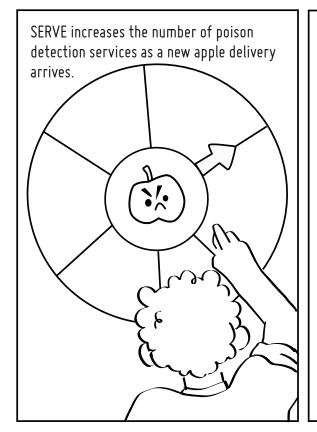






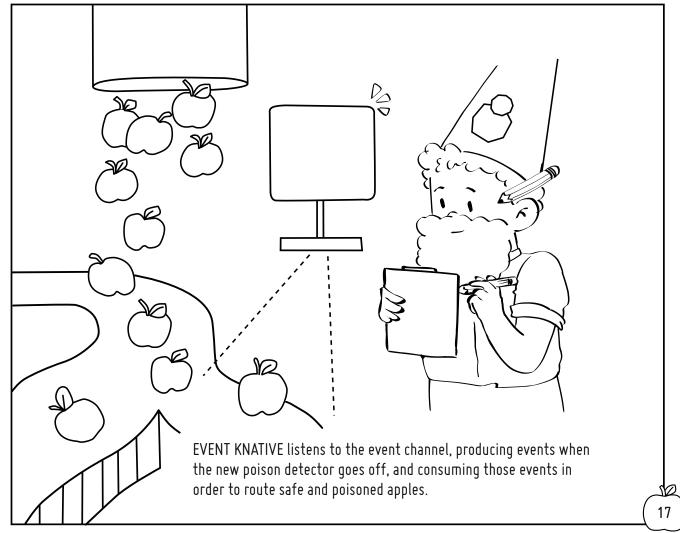


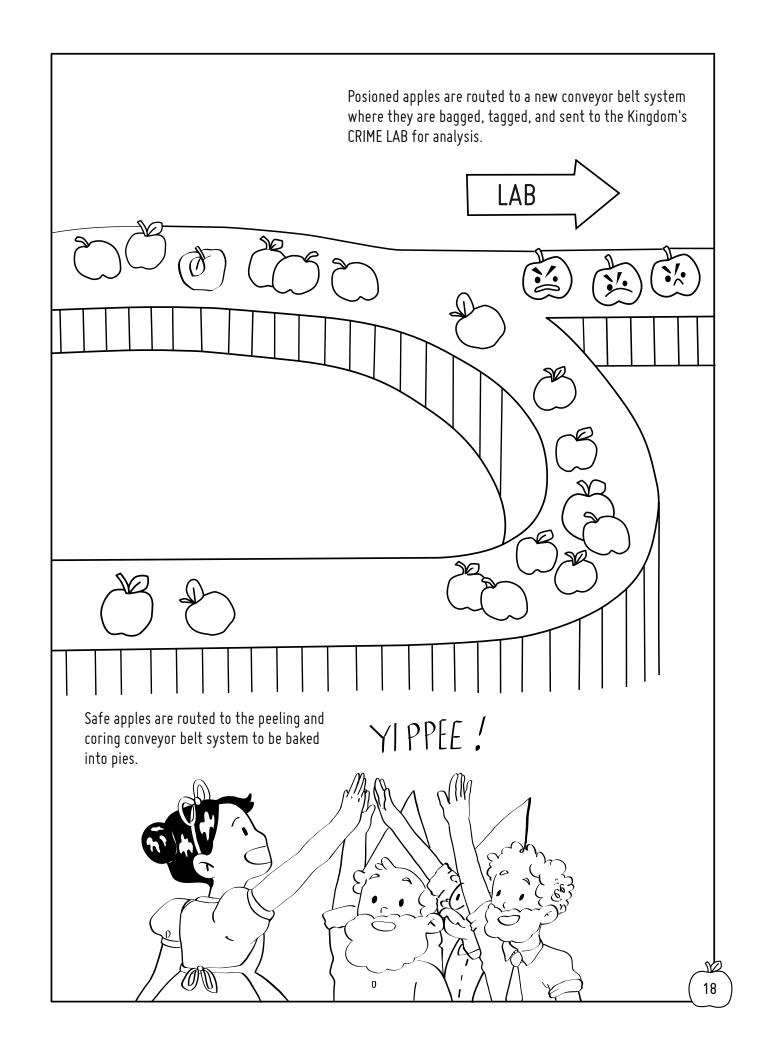






When the delivery finishes, he will stop some of the instances to free up resources for other bakery tasks.



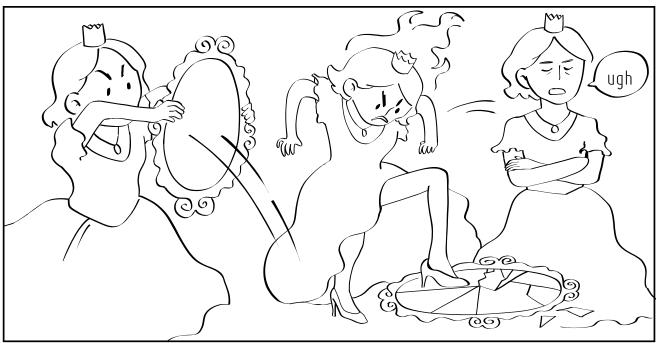






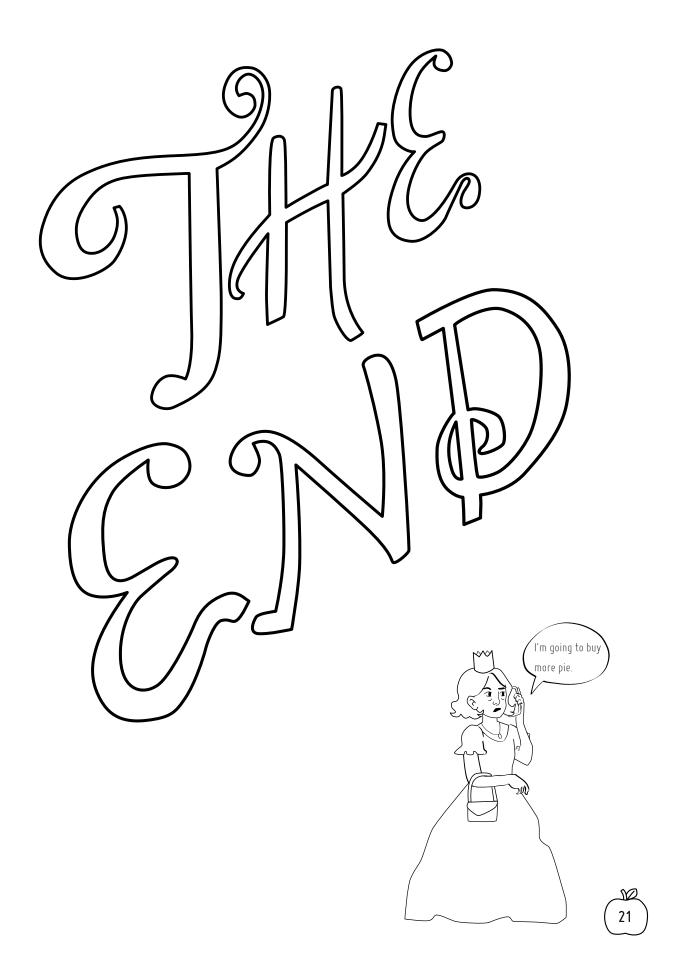
Your Highness, a serverless, event-driven architecture means that her bakery can flexibly scale to handle events like poisoned apples in their supply. We didn't affect her apple pie output at all.

©€









Special thanks to everyone who contributed to this coloring book:



GLOSSARY

Kubernetes – a secure, efficient and reliable open–source distributed system that runs on top of an operating system while interacting with pods of containers running on the physical computers (node). Kubernetes takes the commands from an administrator and relays those instructions to the computing machines. It automates software deployment, scaling, and management.

Software Development Pipeline – a process that drives software development through a path of building, testing, and deploying code. By automating the process, the objective is to minimize human error and maintain a consistent process for how software is released.

Container – an application packaging standard that provides all the files neessary for the application's entire runtime environment. It's portable and makes it easy to move the contained application between environments (dev, test, production, etc.) while retaining full functionality.

OpenShift — owned by Red Hat it is one of the leading distributions of Kubernetes. It's a consistent hybrid cloud for building and scaling containerized applications.

Serverless — Serverless computing is a cloud-native development model that allows developers to build and run applications without having to manage servers for a short period of time. Physical servers are used but don't need to be managed by developers.

Deployment – Deployment automation provides the ability to move your software between testing and production environments by using automated processes. This leads to repeatable and reliable deployments across the software delivery cycle.

Event – The record that something happened within an application, often originating from the external physical environment. The event is generated in one of the architecture components and is then handled by the software.

EDA – Event-driven architecture is a software architecture and model for application design. With an event-driven system, the capture, communication, processing, and persistence of events are the core structure of the solution. This differs from a traditional request-driven model. A tax preparation site might use EDA to spawn additional web servers during tax time for example.

Enterprise Infrastructure — Made up of hardware, software, networking, and services required to manage an environment. The result is a standardized platform across physical, virtual, private cloud, and public cloud environments, with solutions that work as well with one another as they do with your existing technologies and processes.

Eclipse Che IDE – An integrated development environment, is software for building applications that combines common developer tools into a single graphical user interface. It is an open-source multi-user development platform that is based in Java.

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