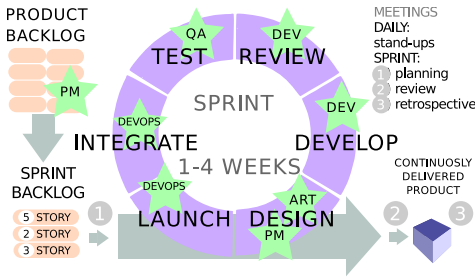


SCRUM SPRINT DIAGRAM



AGILE TERMINOLOGY

Agile Dominant organizational attitude among Bay Area start-ups, involving continuously improving the product in short increments in small teams

Story All work is broken down into “stories” which constitute discrete features to be added or defects to be fixed (depending on org, might be *ticket*, *task*, *issue*)

Story points Rough estimates of work involved to perform a task, intentionally left unit-less

Scrum Popular organizational method that focuses on planning cyclic *sprints* of effort, and *velocity* (team effectiveness) is measured based on total *story points* performed each sprint

Kanban Popular organizational method to produce a continuous flow of effort, and *cycle time* is measured based on average time it takes to complete stories

ROLES

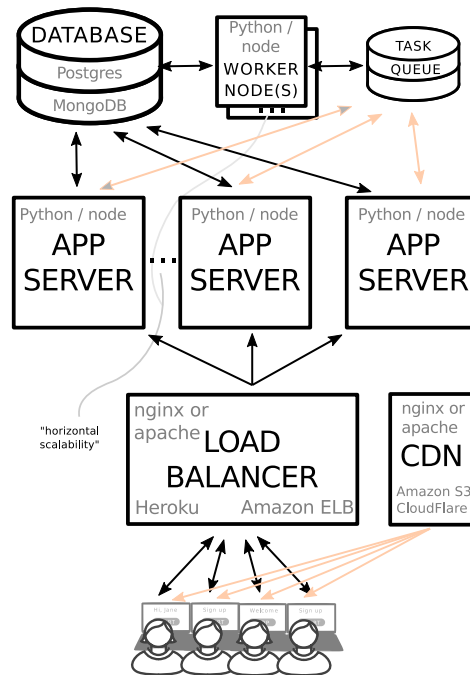
Product Management Role within an engineering team of converting business needs into user stories, doing product research, and producing concrete *stories* with specifications and wireframes

Developer Writes the code that implement a *story* about a new feature or bug fix

QA Engineer Inspect product for defects and regressions, and write tools to automate this process

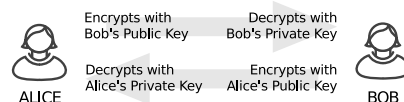
DevOps Sets up servers and DBs, and launches new code to production, automating the process to achieve “continuous deployment”

SERVER TOPOGRAPHY



ENCRYPTION

Key pair A pair of *private* and *public* key files to used to securely connect a pair of computers online, used by *git*, *ssh*, and more



DEVOPS TOOLS

Virtual machine Can simulate multiple computers on a single physical computer. Linux VMs can be bought at hosts such as Amazon Web Services or Digital Ocean.

SSH Remotely log into a Bash terminal of a Linux computer or VM

Docker A *virtualenv* for a Linux system, isolates system dependencies (e.g. *apt* installed for Ubuntu)

Puppet, Chef, Ansible, Salt etc Tools used by DevOps for running and configuring many servers

AUTOMATED TESTS

Unit testing Tests a single function or class in isolation – colloquially sometimes refers to all automated tests

Functional testing Tests that a component performs the function that supposed to do

End-to-end testing Simulates clicking through a browser to ensure the app is fully working from a user standpoint