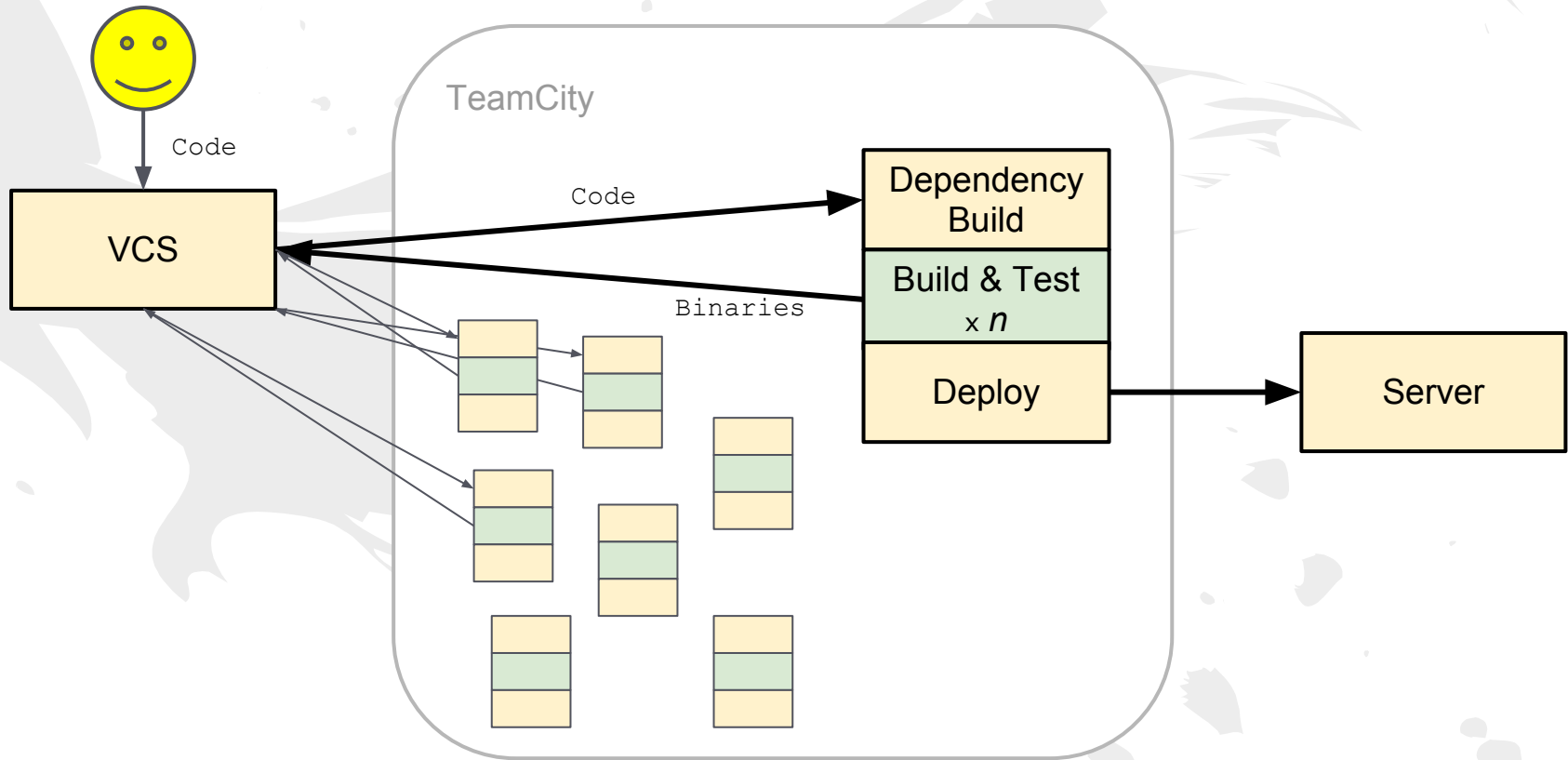


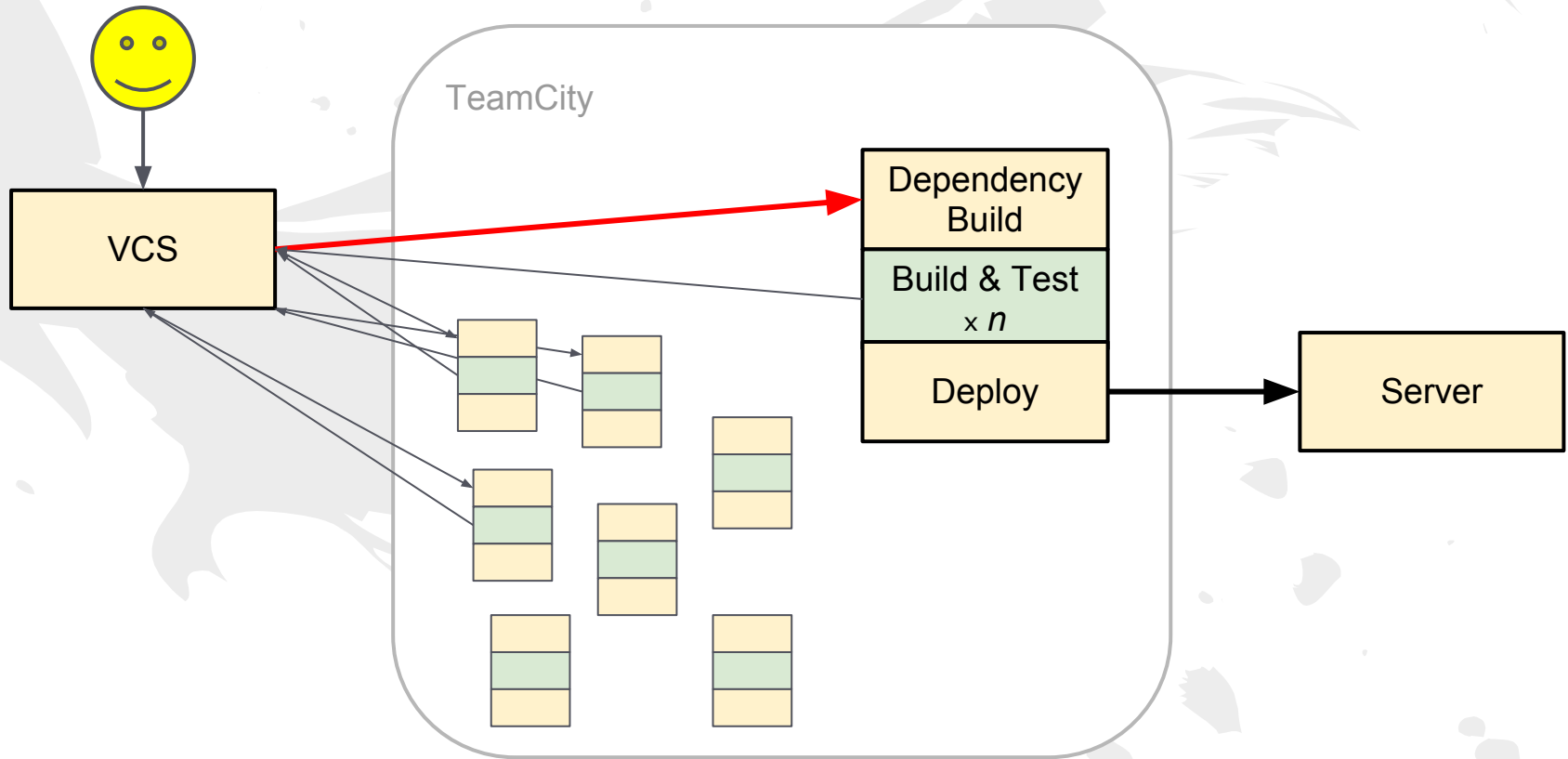
Distributed Dependency Management

fault tolerant and fast build processes

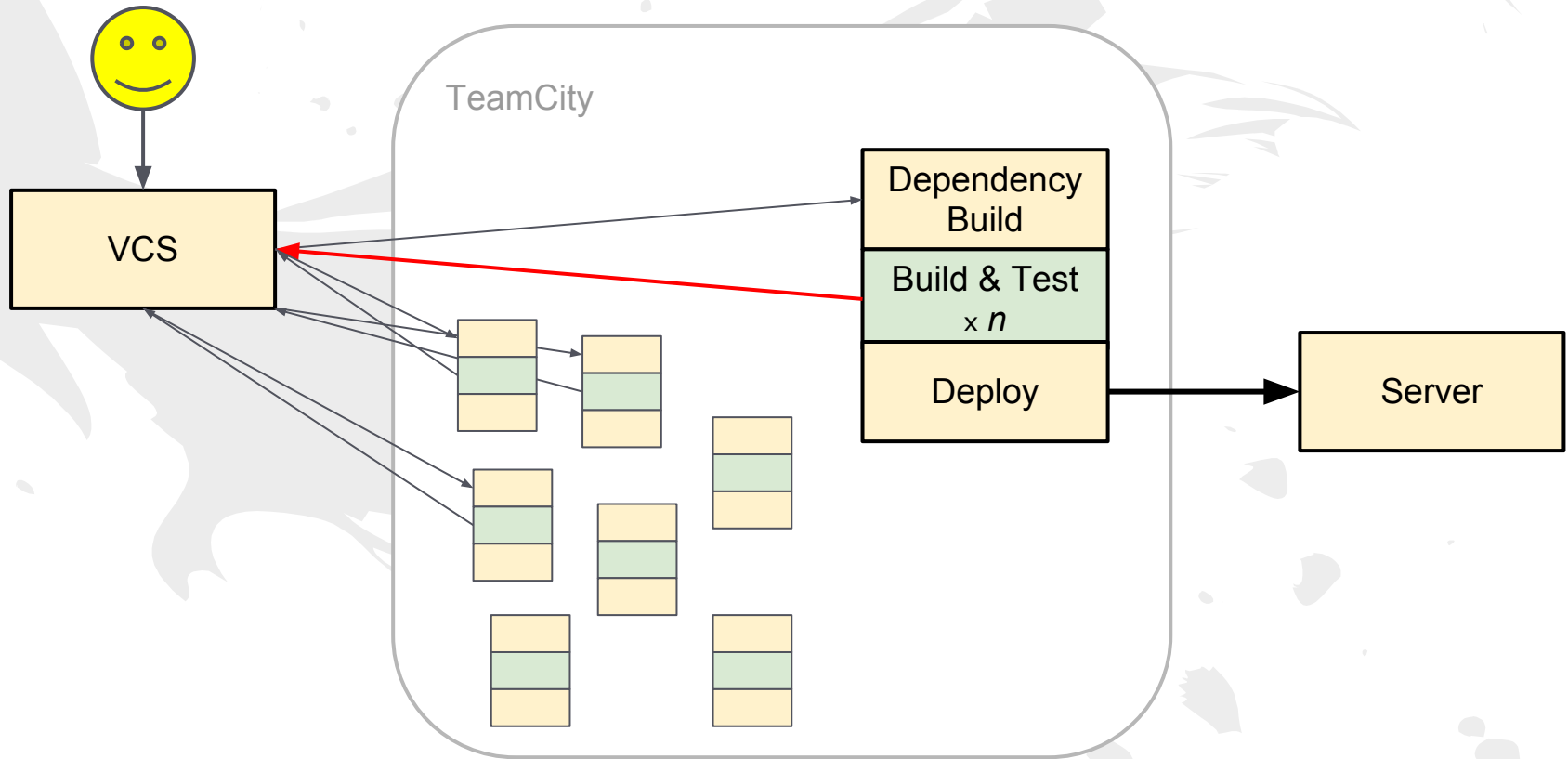
The Status Quo



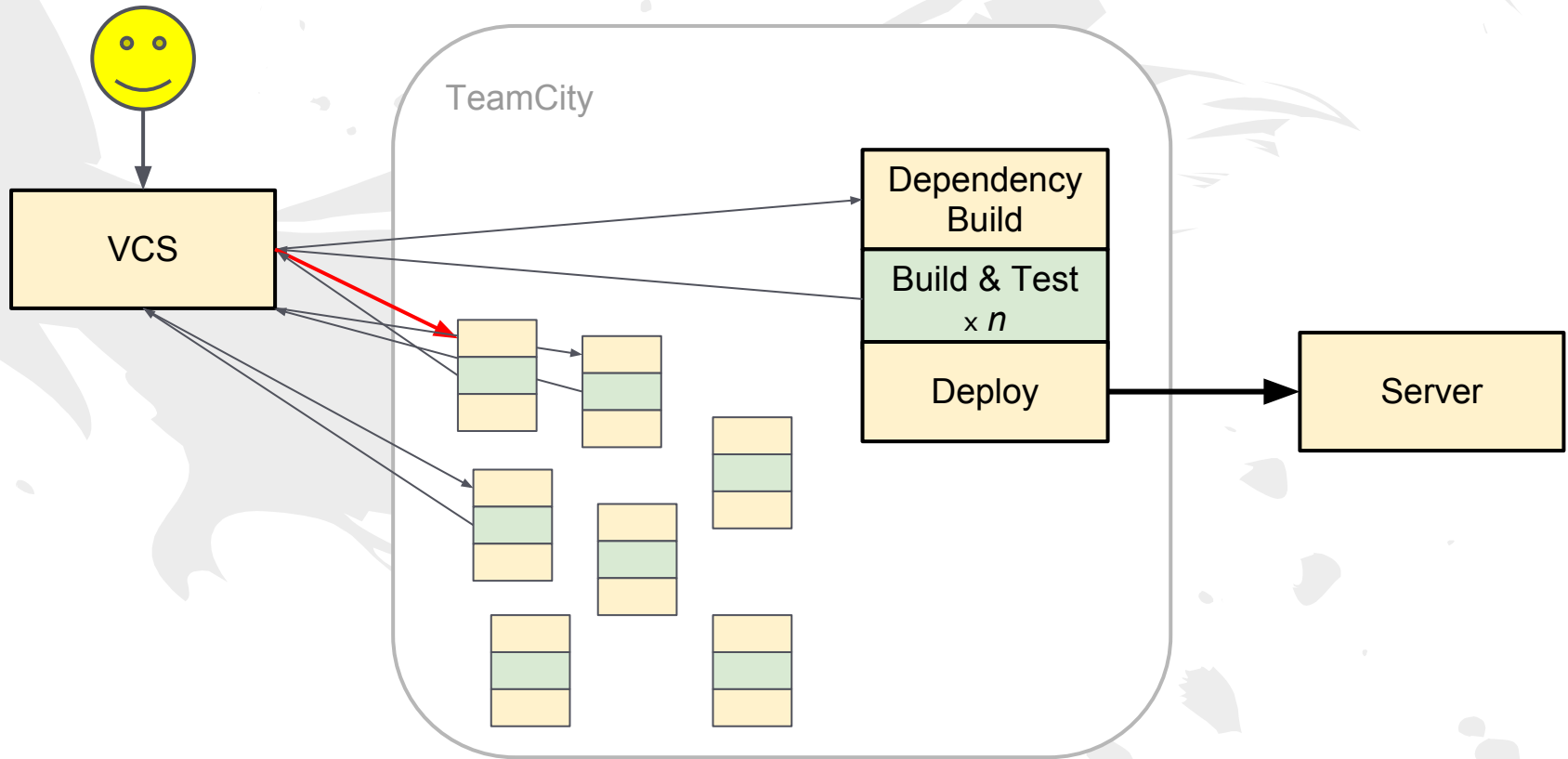
Waiting



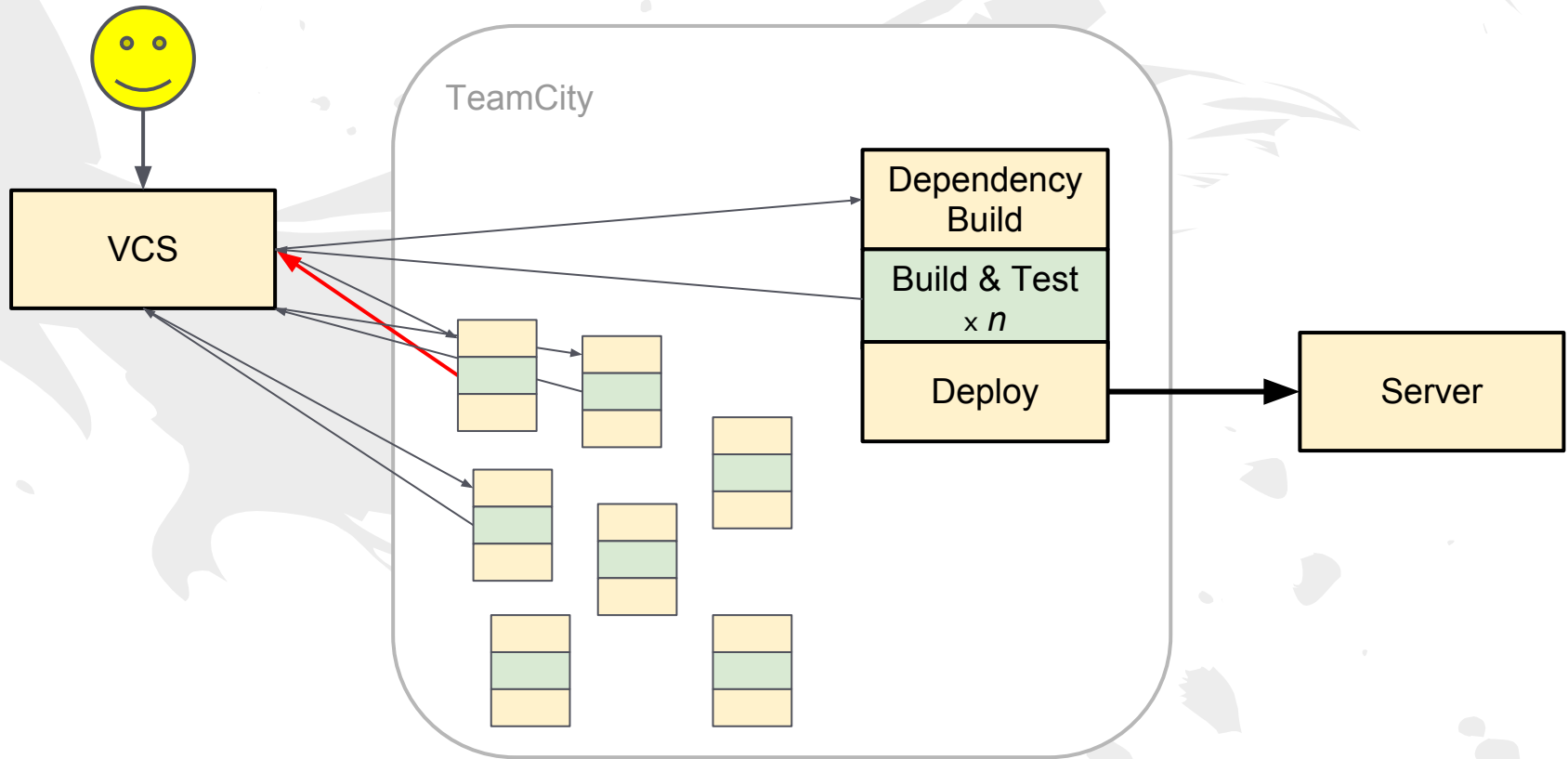
Waiting



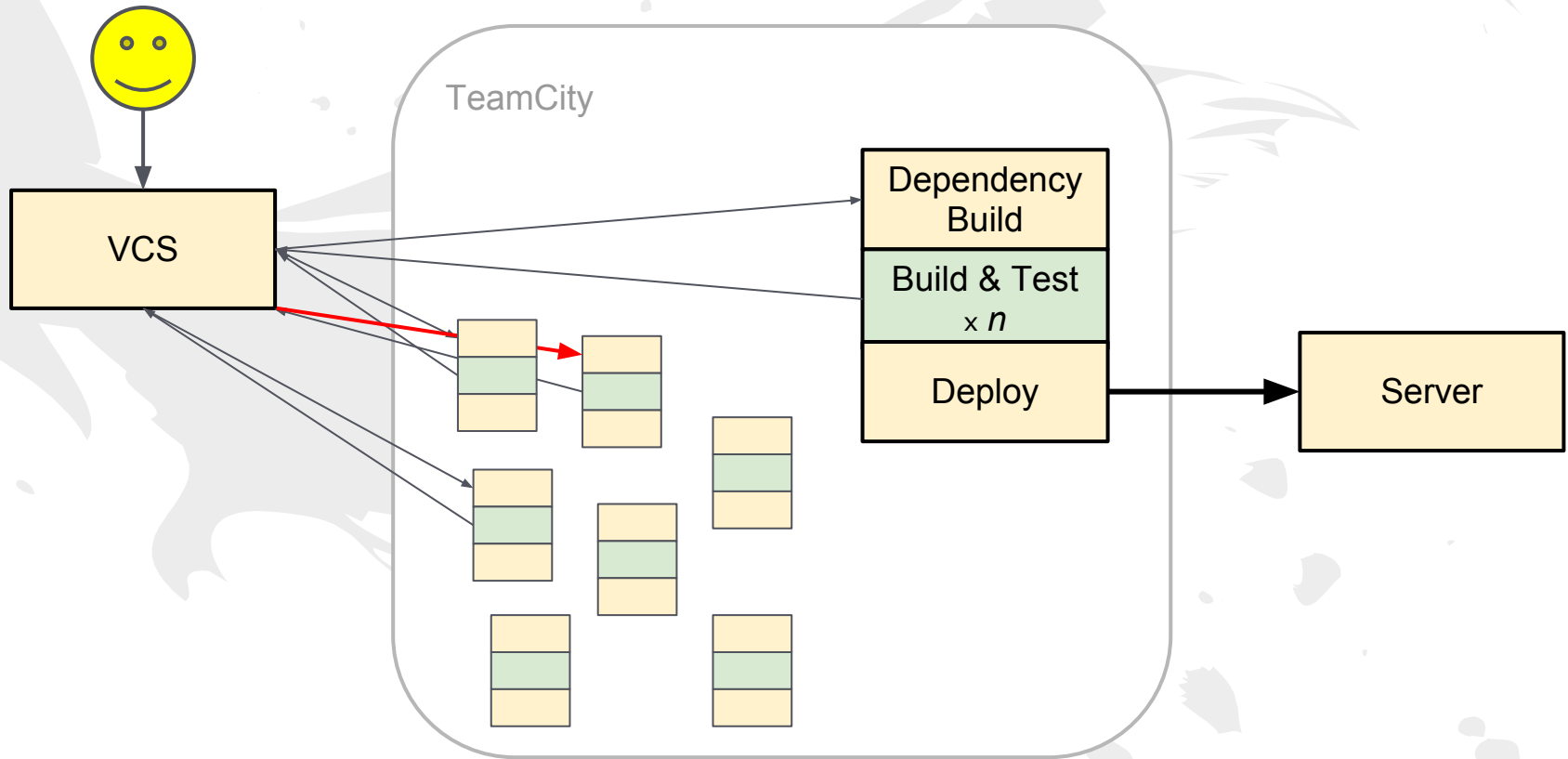
Waiting



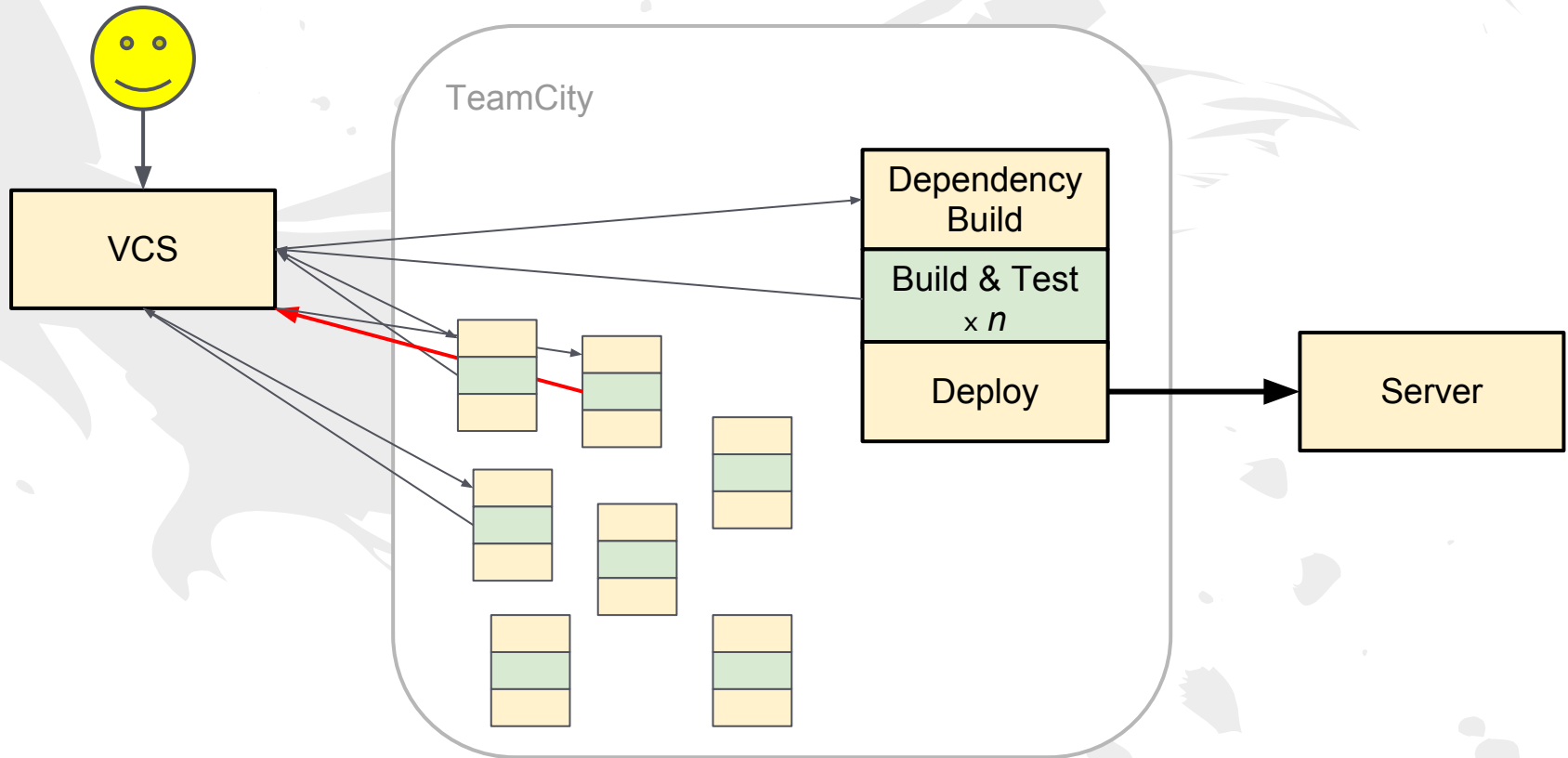
Waiting



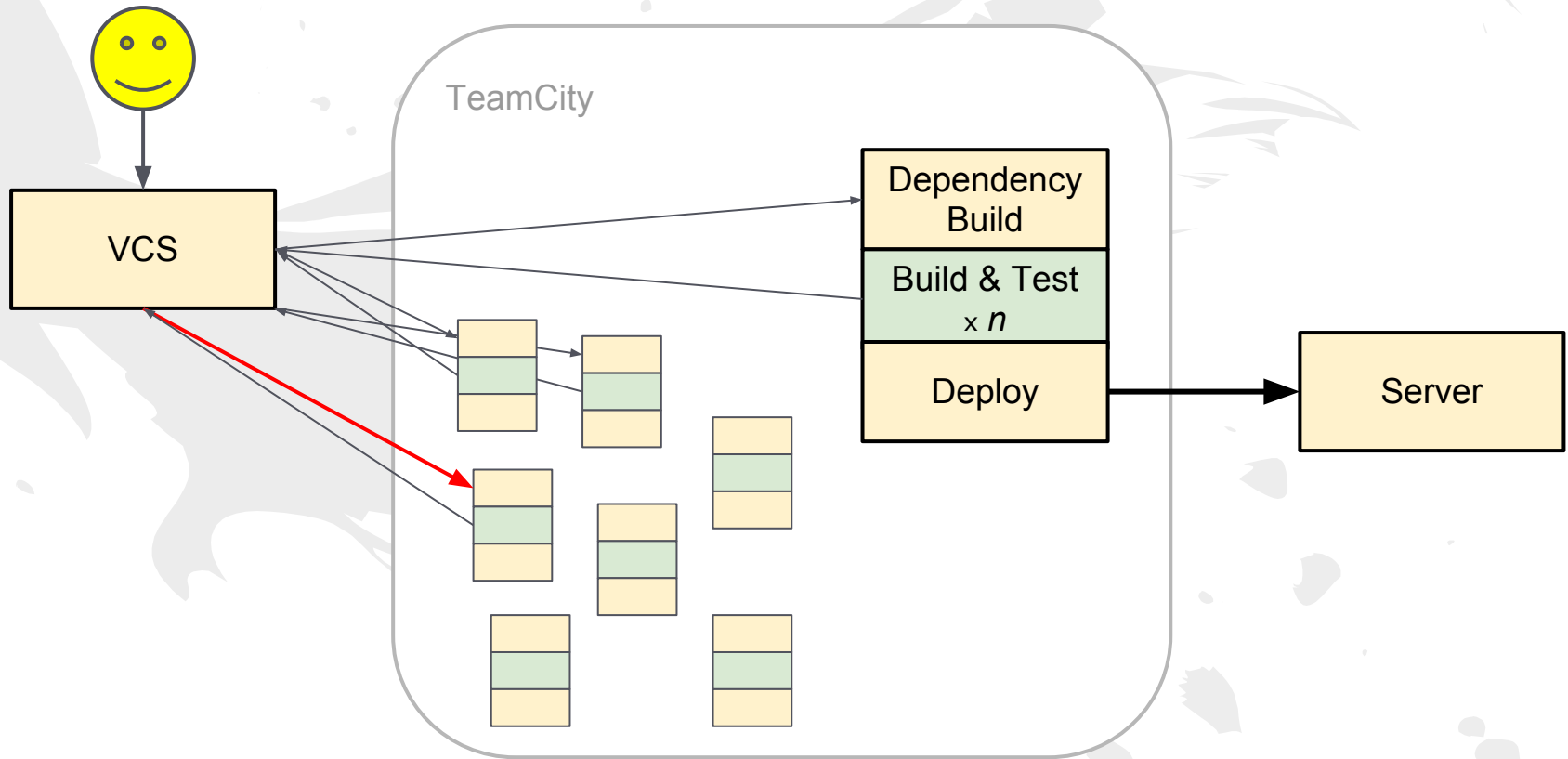
Waiting



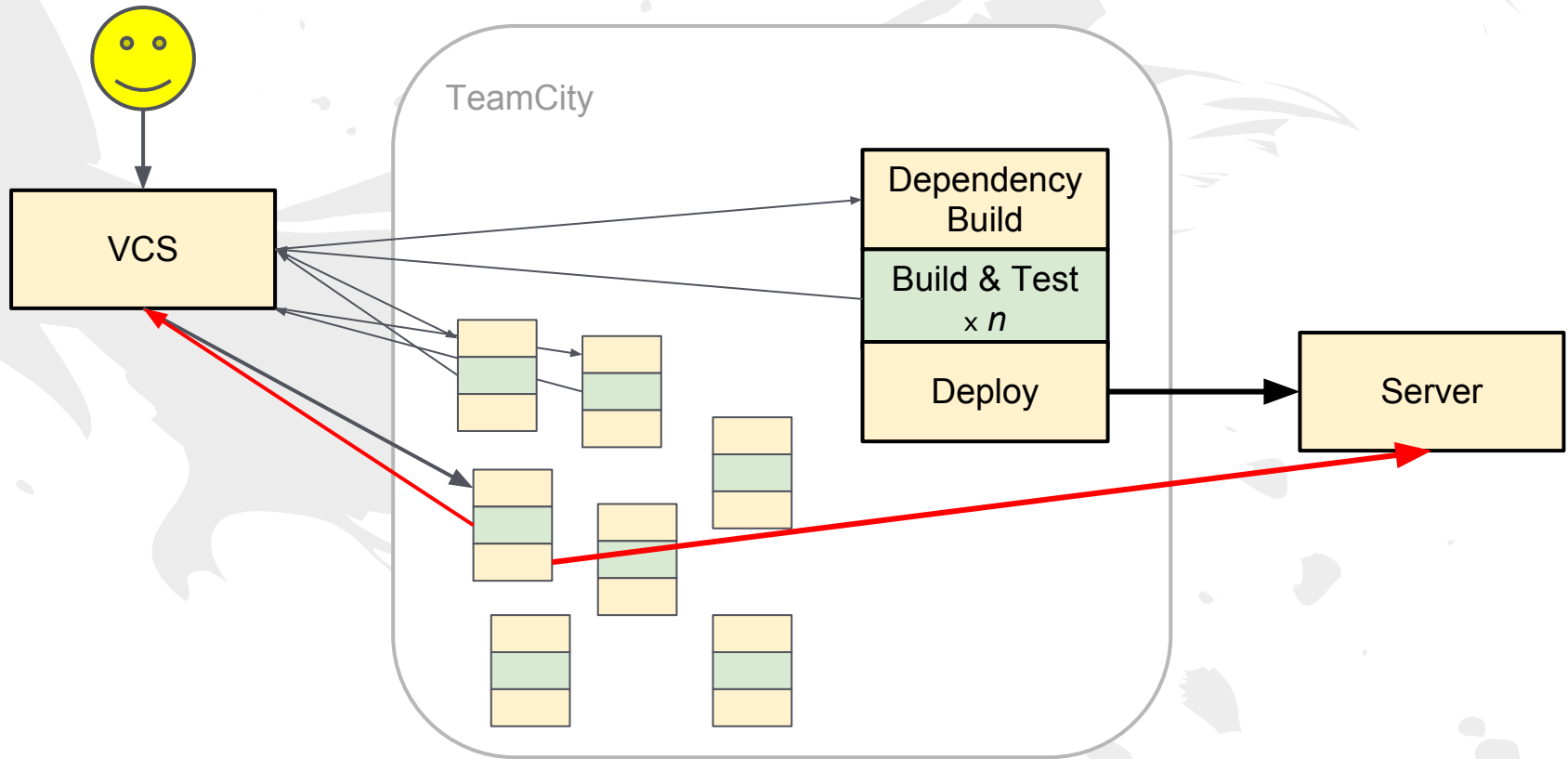
Waiting



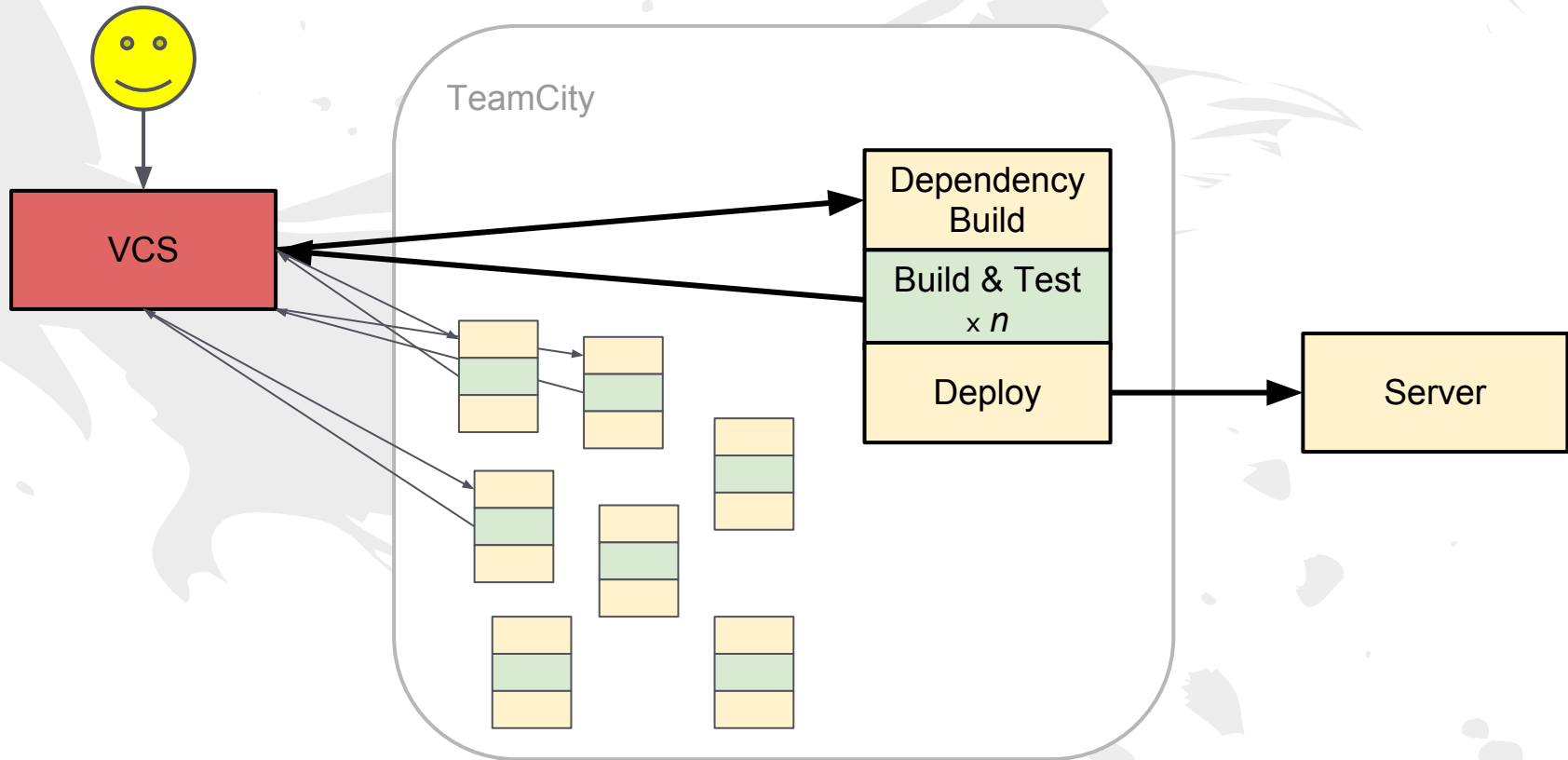
Waiting



Waiting



Failure cases: VCS overload

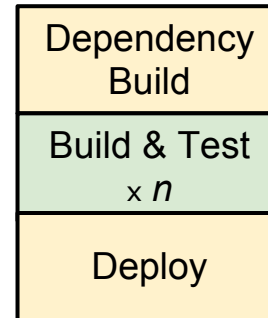
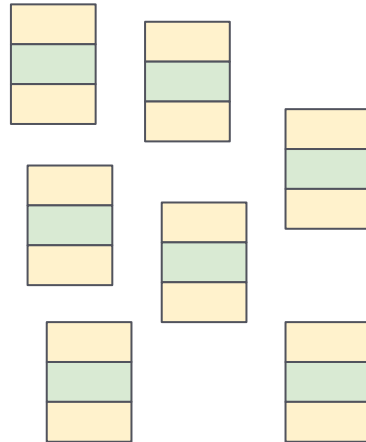


Failure cases: VCS dead



?

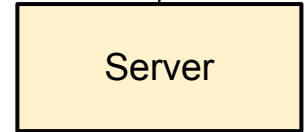
TeamCity



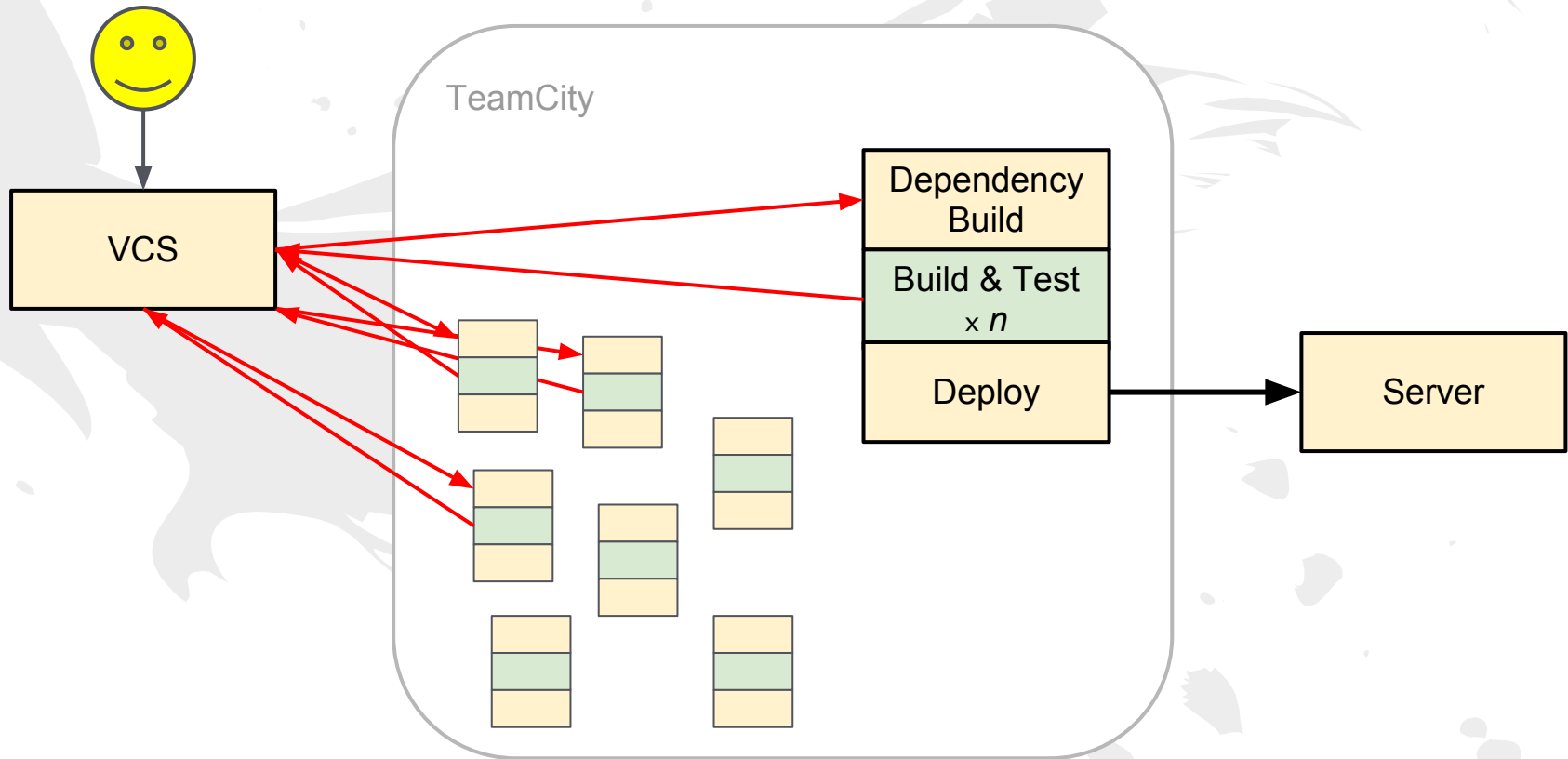
?



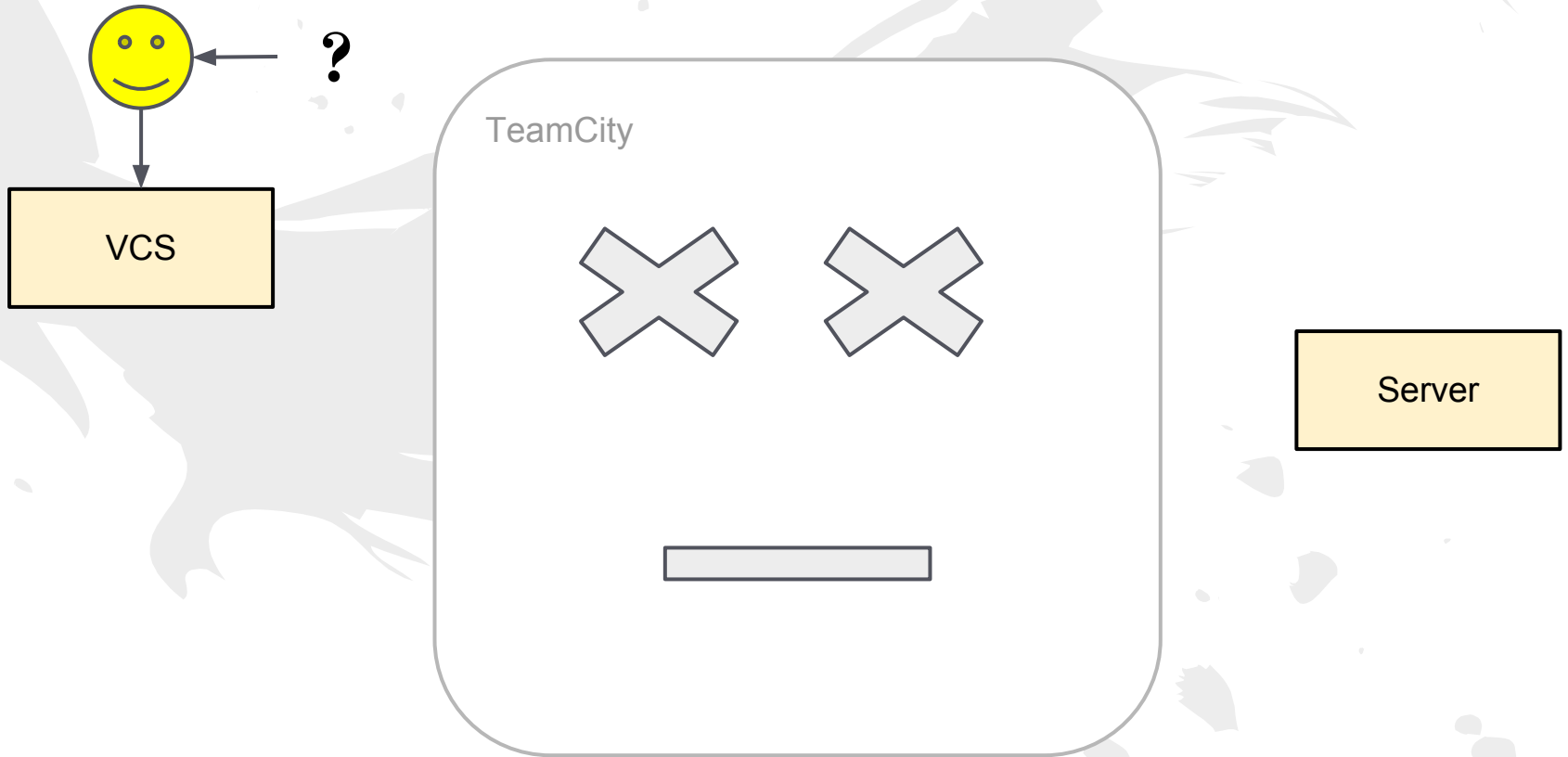
Server



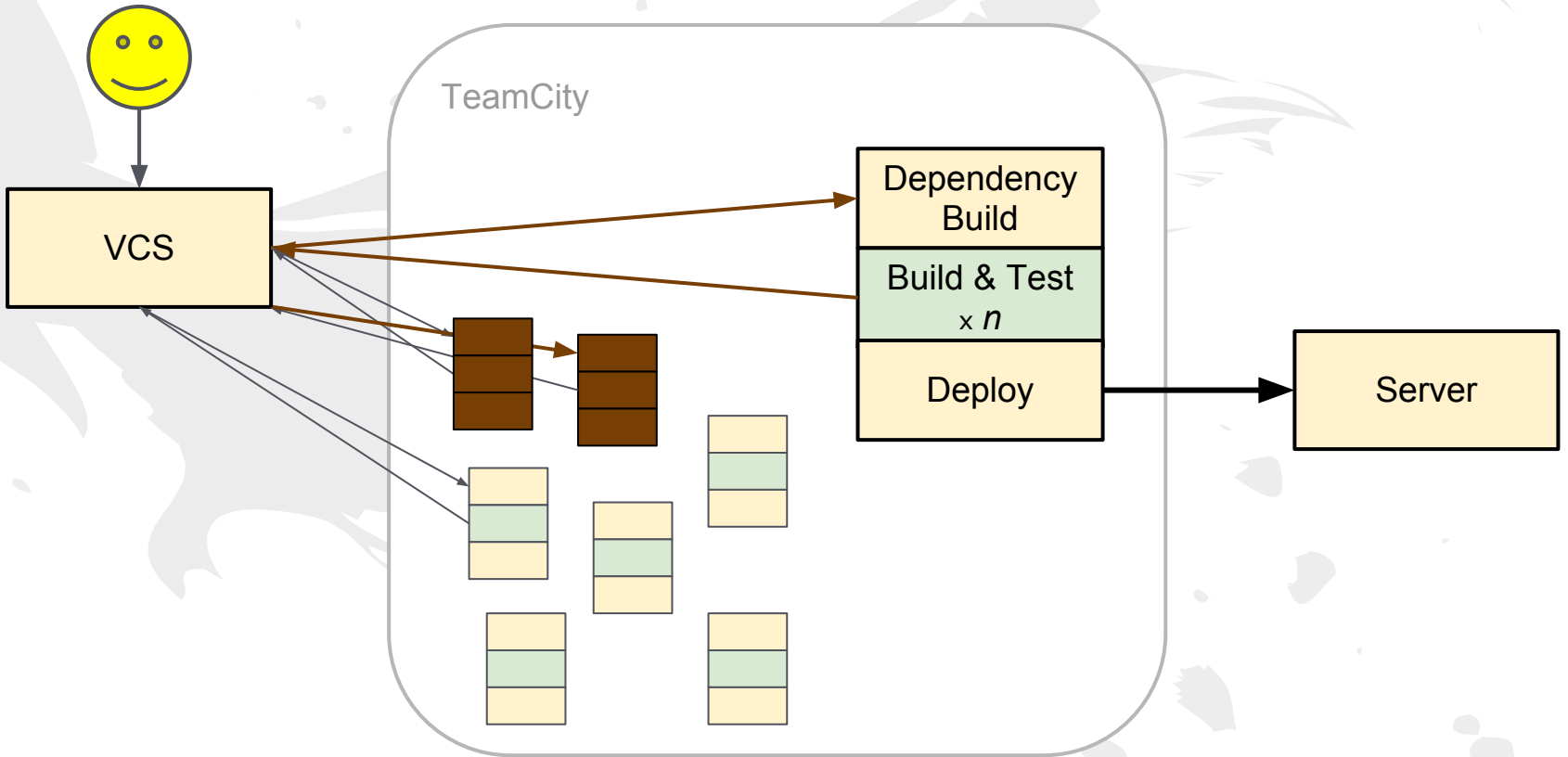
Failure cases: TC Build Storm



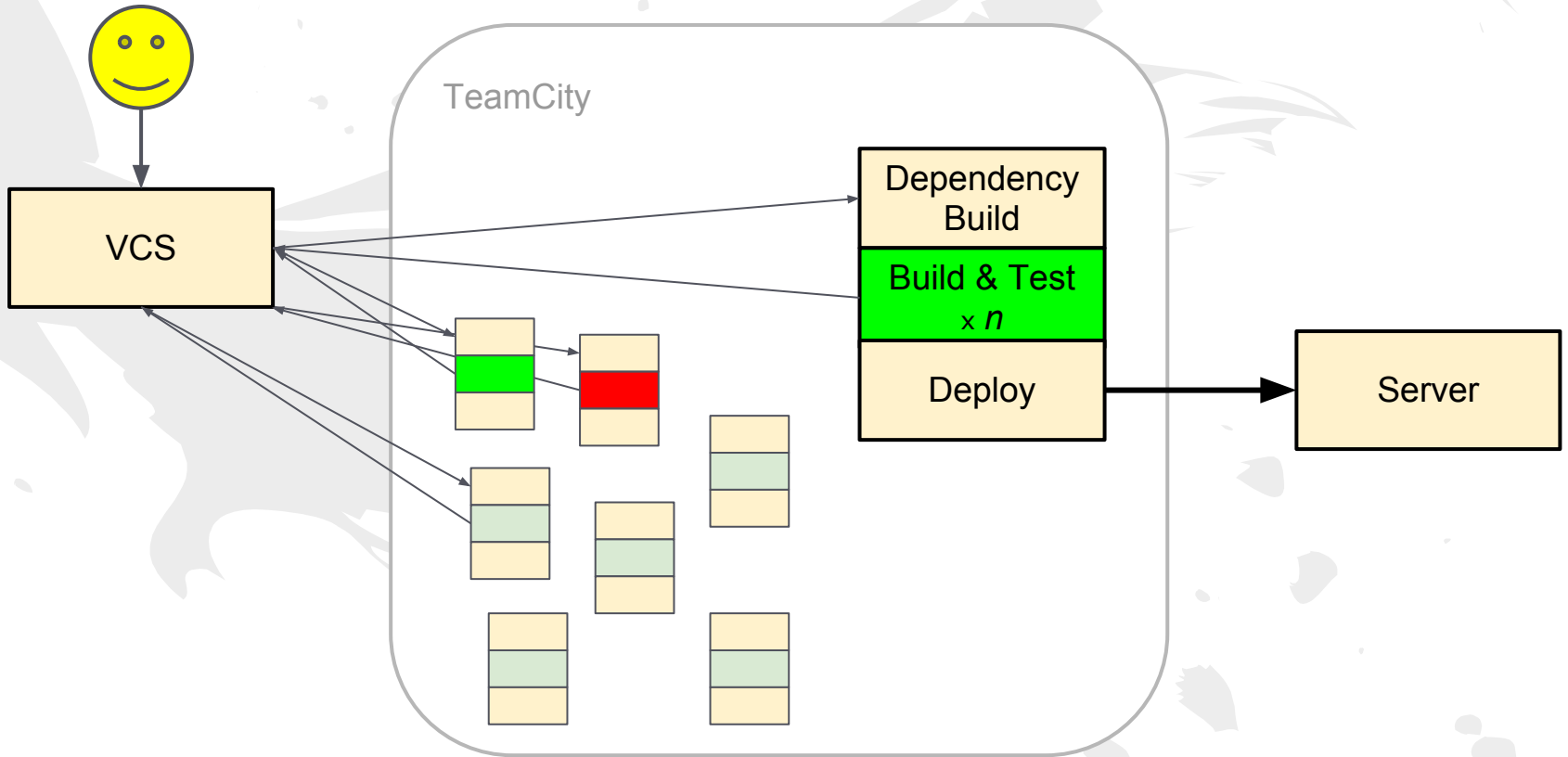
Failure cases: TC dead



The diagram illustrates a CI/CD pipeline. It starts with a yellow smiley face icon pointing to a box labeled 'VCS'. From 'VCS', arrows point to a large rounded rectangle labeled 'TeamCity'. Inside 'TeamCity', there is a vertical stack of three boxes: 'Dependency Build' (yellow), 'Build & Test $\times n$ ' (green), and 'Deploy' (yellow). Arrows from 'VCS' point to each of these three boxes. Below the 'TeamCity' container, there are several small rectangular blocks representing build artifacts, some yellow and some green. An arrow points from the 'Deploy' box to a box labeled 'Server'.

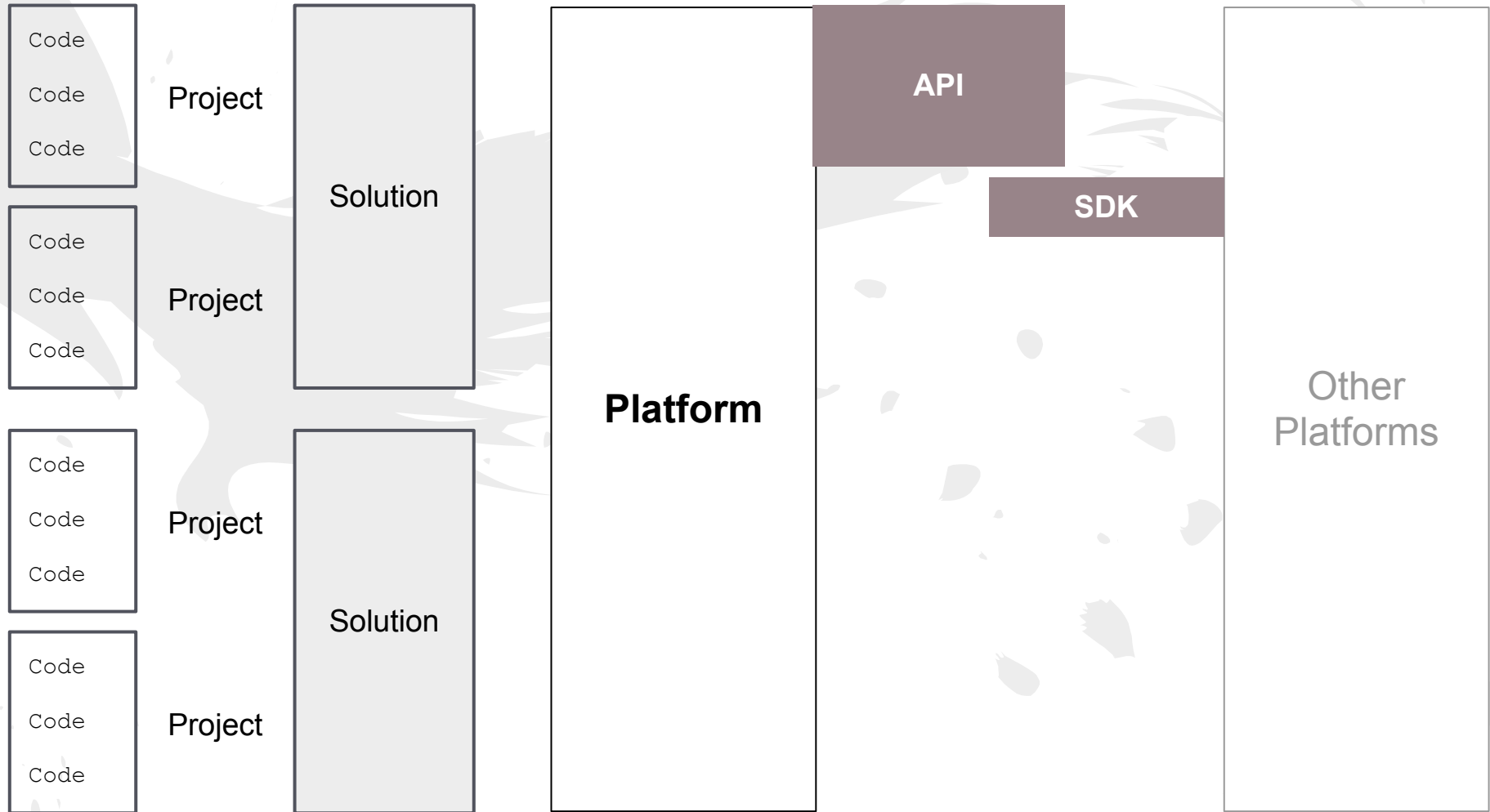


Failure cases: Dependency Rash

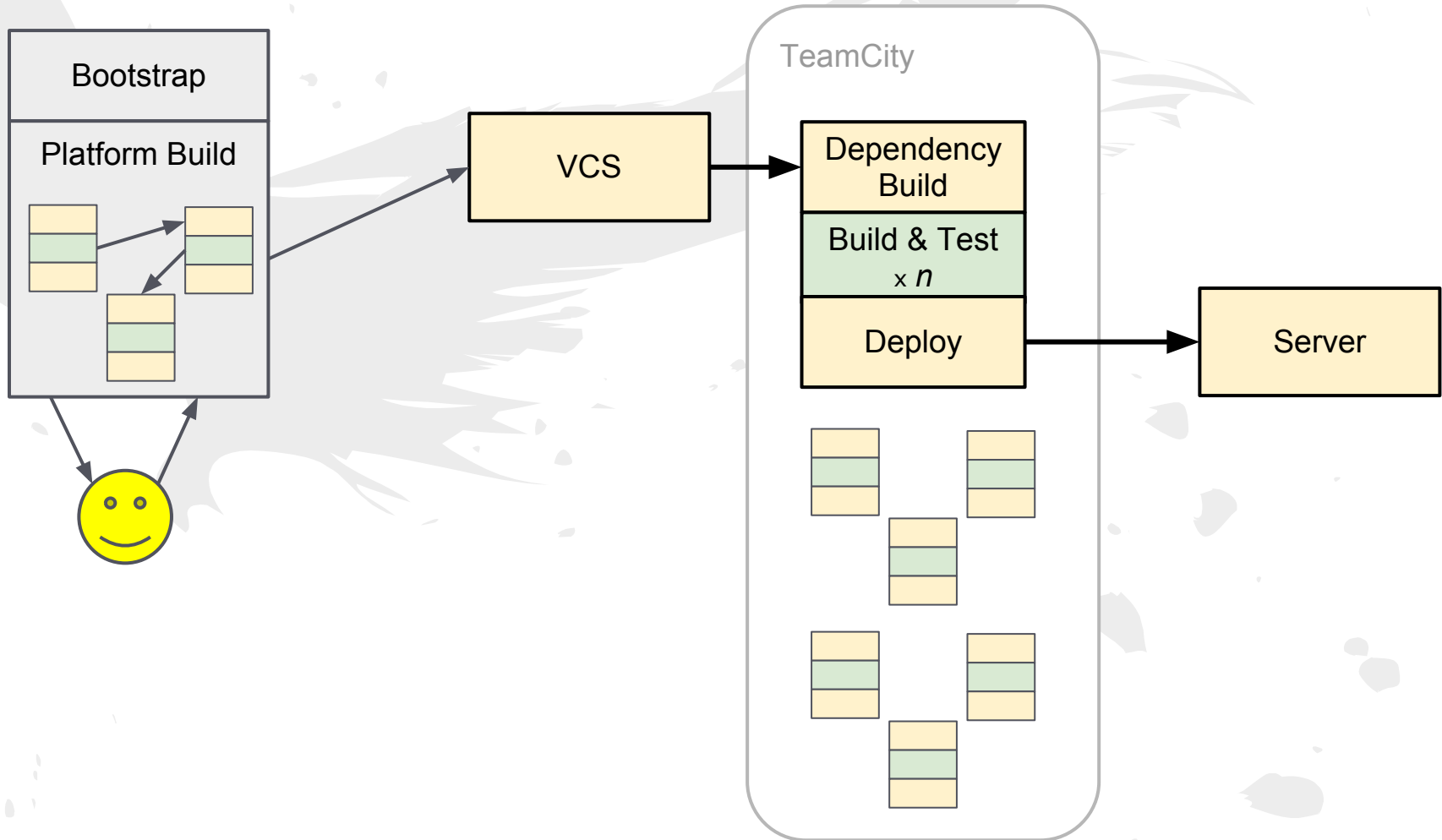


Distributed Build System

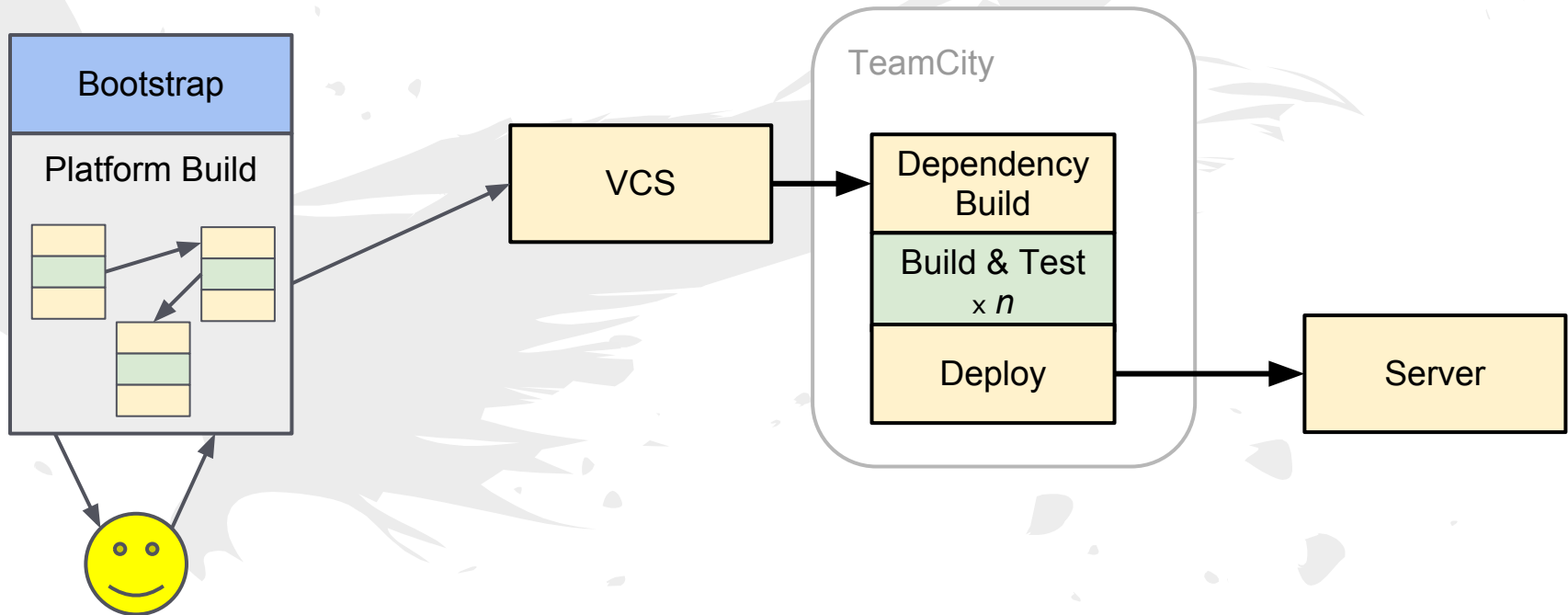
Some naming conventions



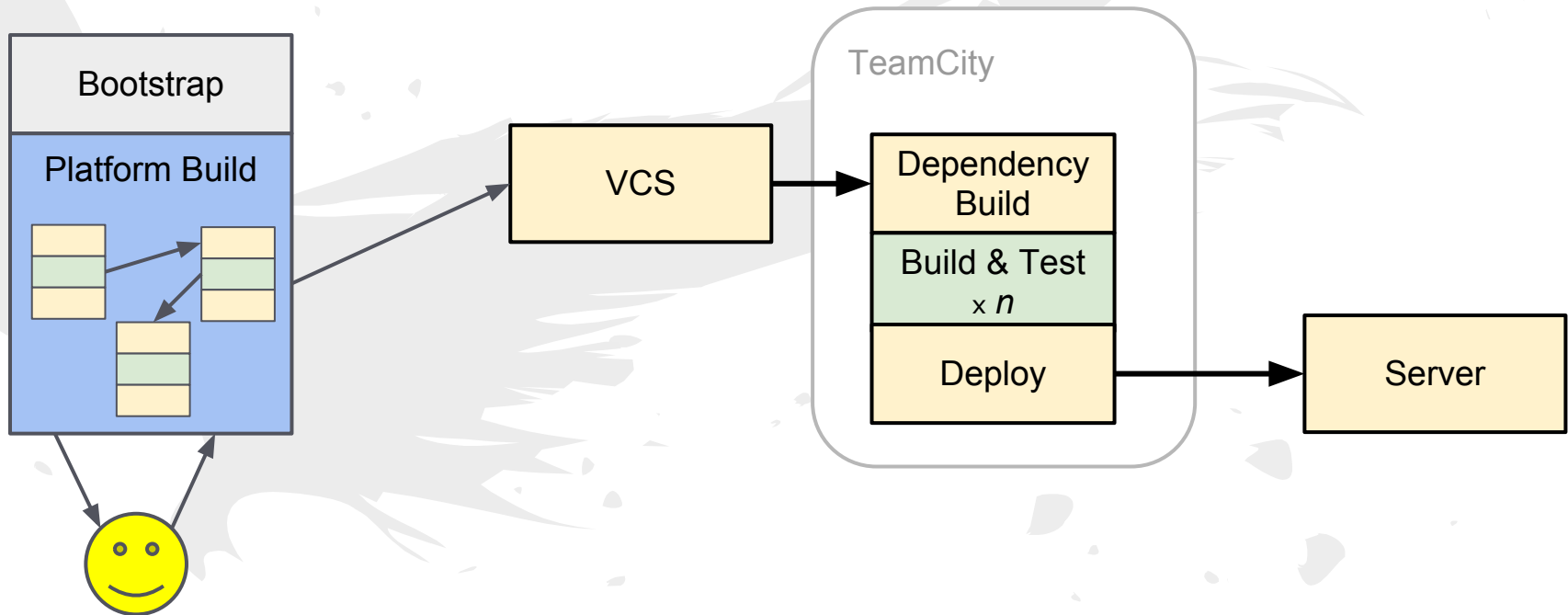
Distributed build platform



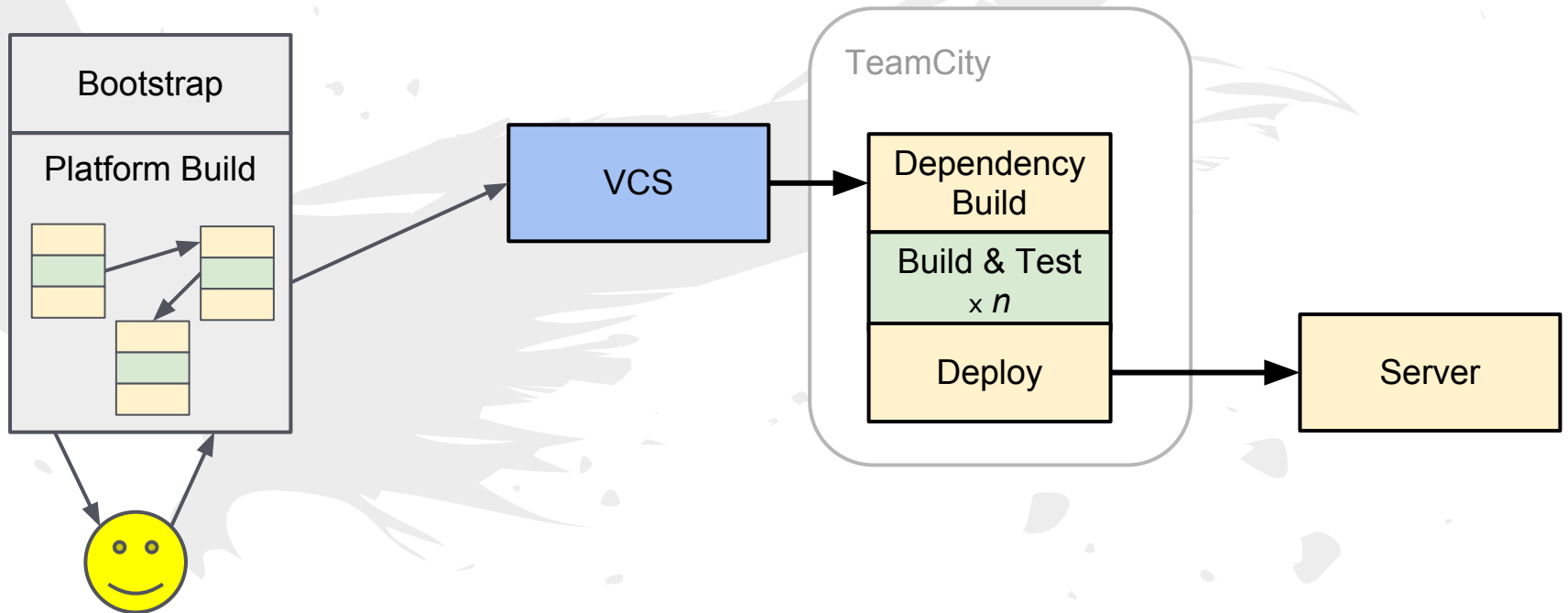
Distributed build platform



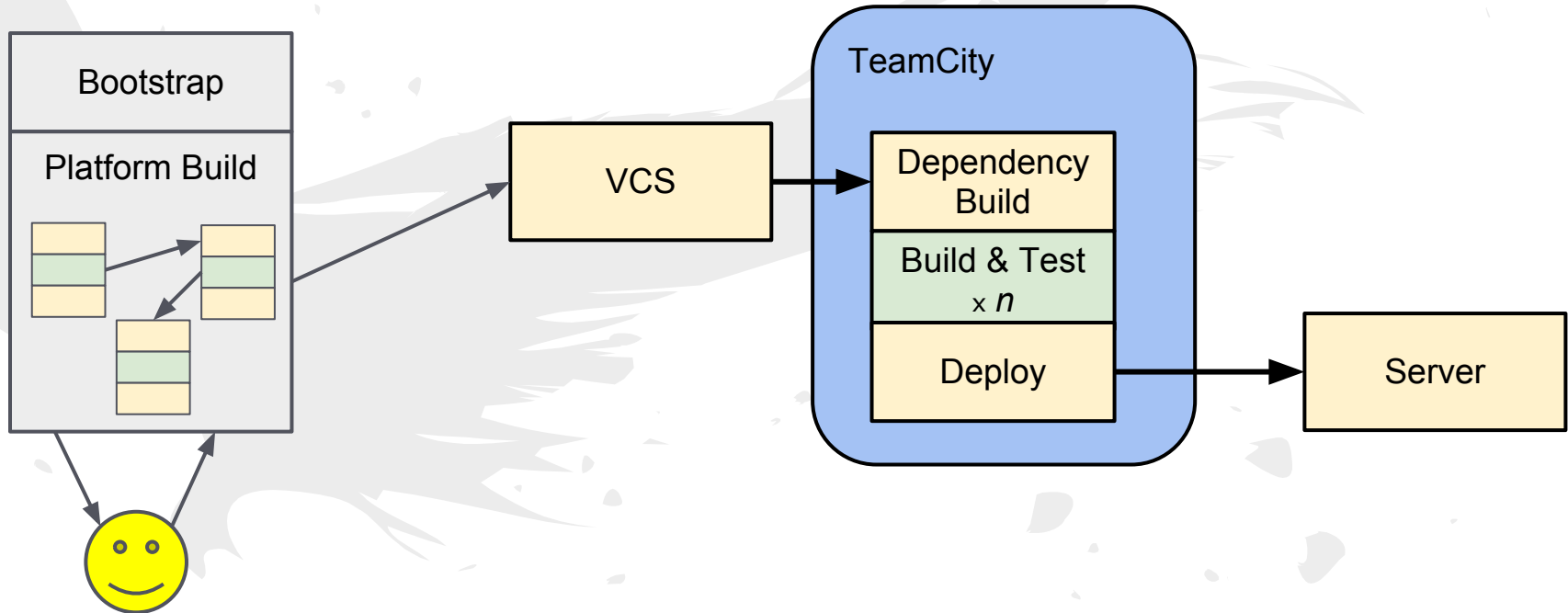
Distributed build platform



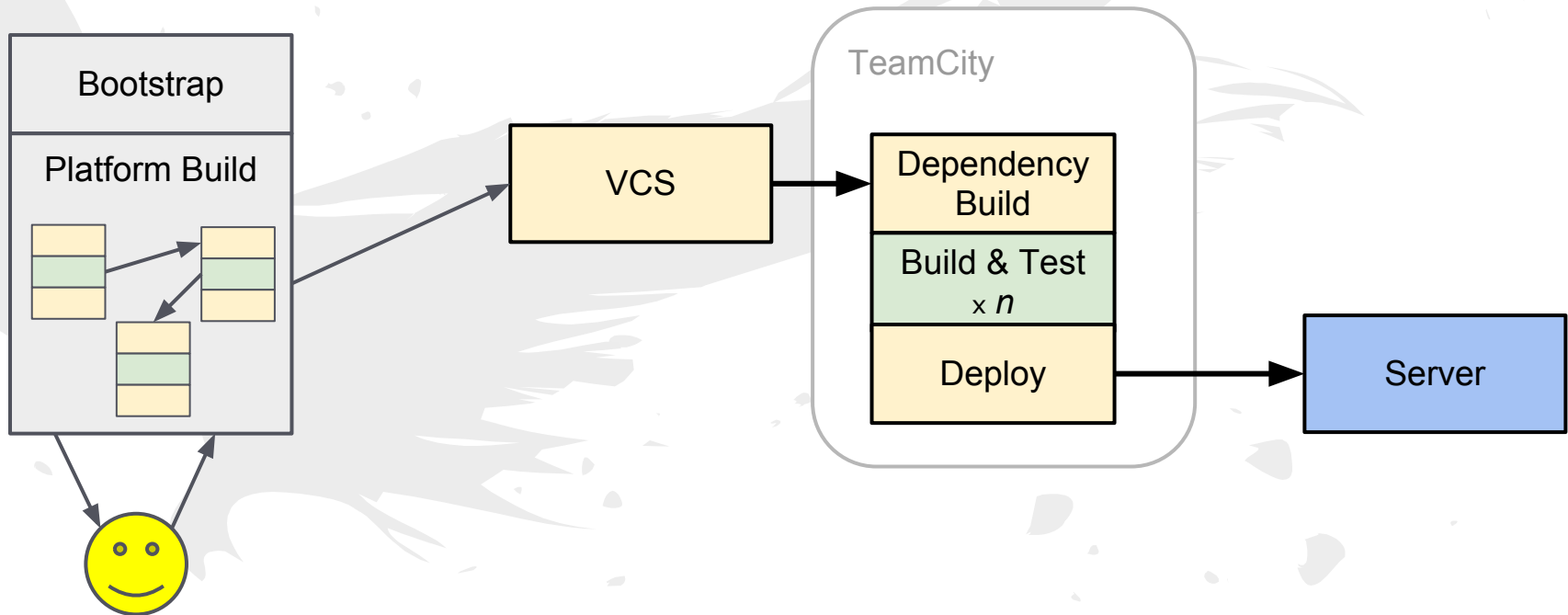
Distributed build platform



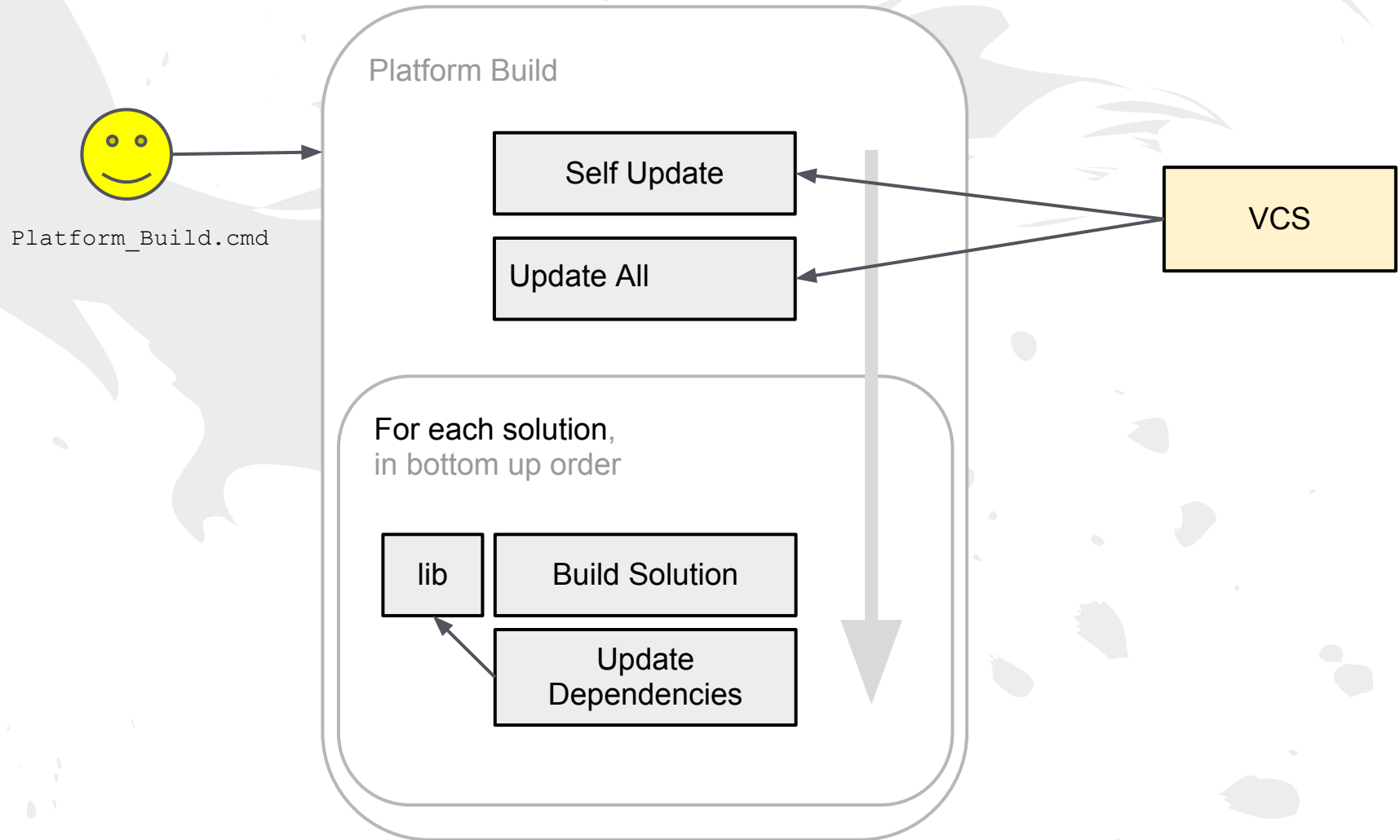
Distributed build platform



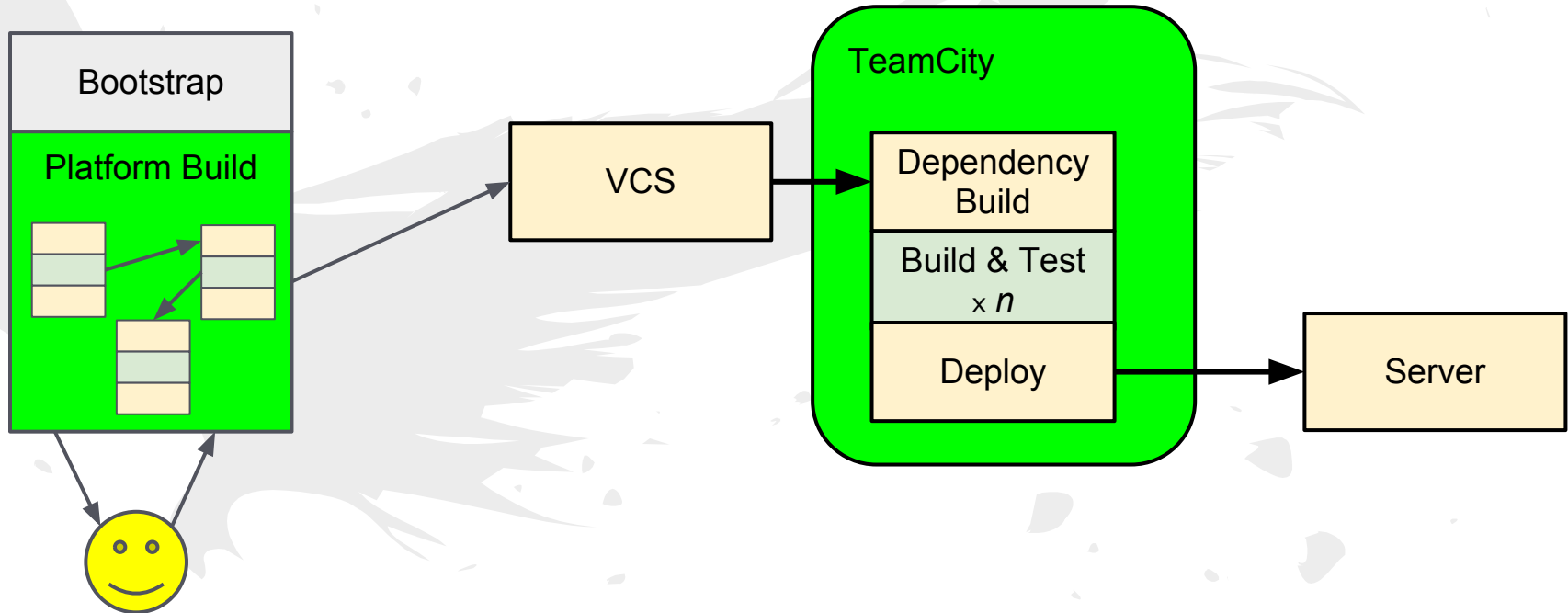
Distributed build platform



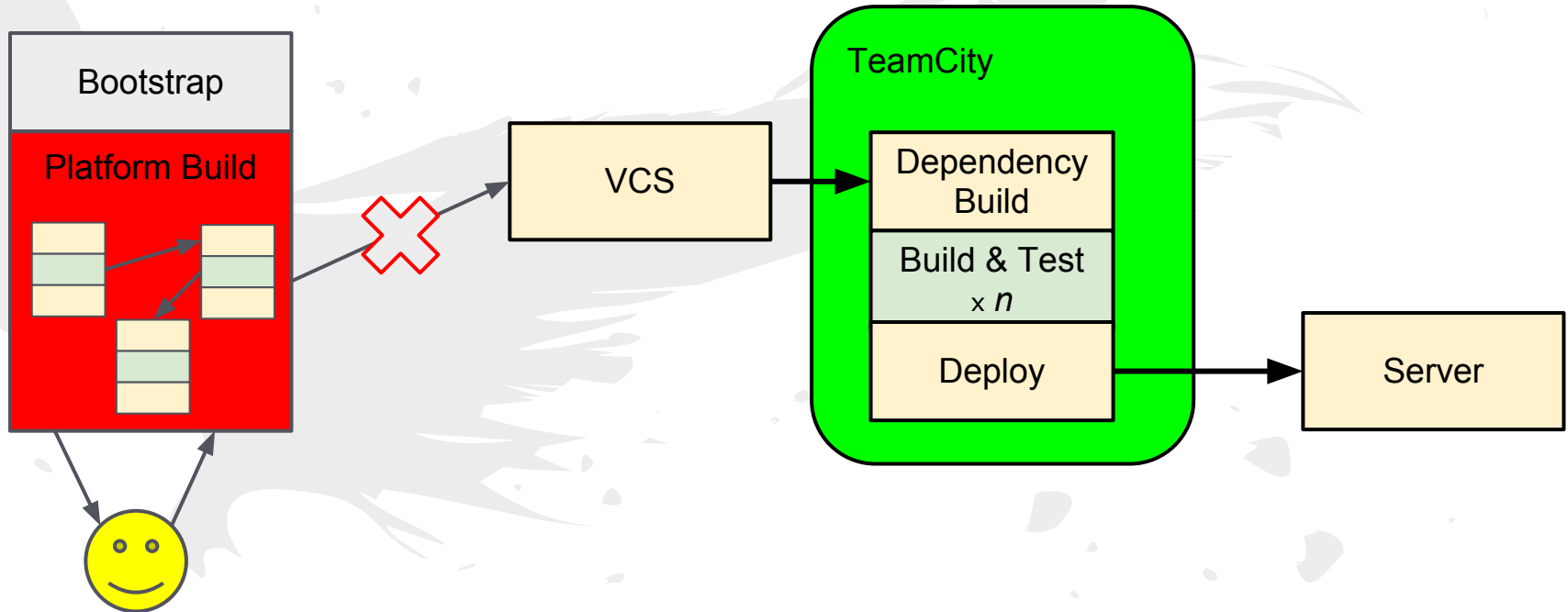
Inside Platform build



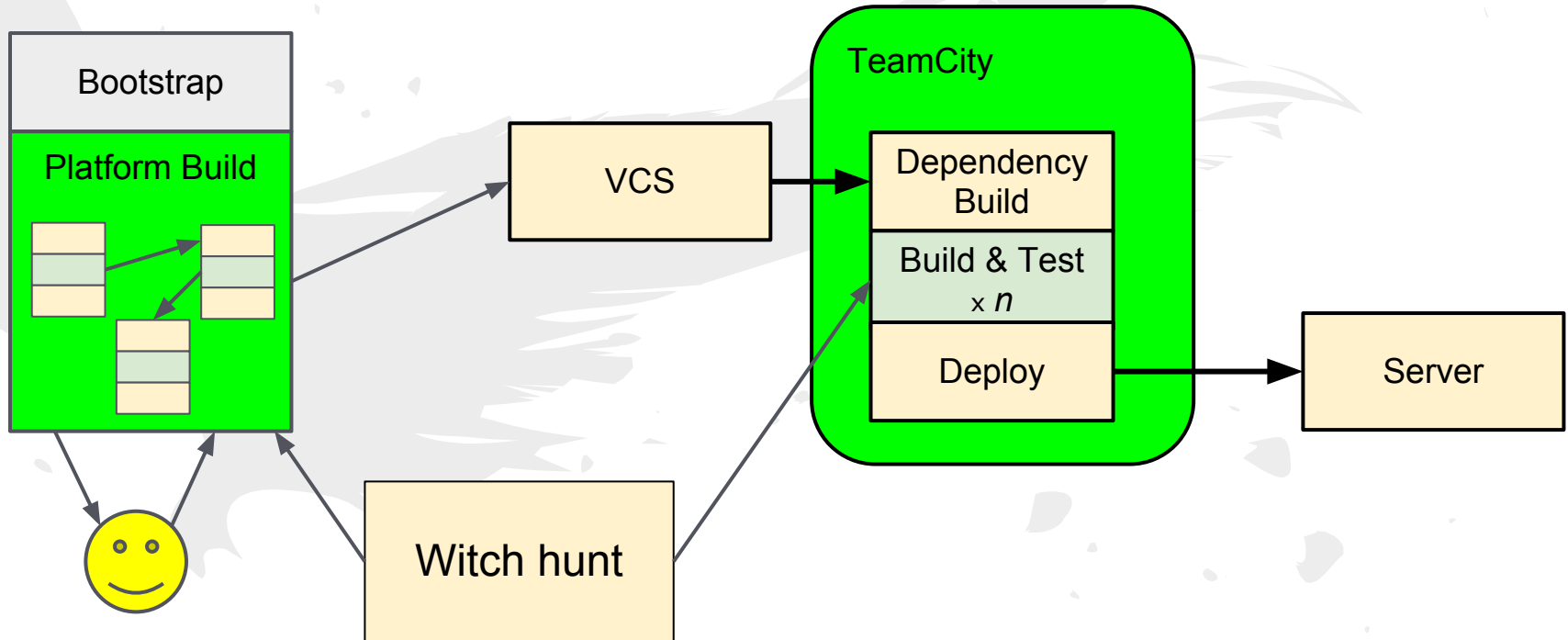
Always green



Safe spike



All tests!



Demo

Bootstrap, build, test and push