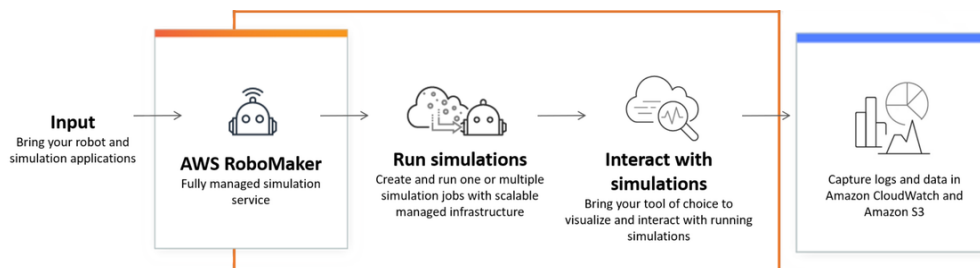


# What Is AWS RoboMaker?

[PDF \(/pdfs/robomaker/latest/dg/aws-robomaker-dg.pdf#chapter-welcome\)](/pdfs/robomaker/latest/dg/aws-robomaker-dg.pdf#chapter-welcome)

AWS RoboMaker is a cloud-based simulation service with which robotics developers can run, scale, and automate simulation without managing any infrastructure. With AWS RoboMaker, robotics developers can cost-effectively scale and automate simulation workloads, run large-scale and parallel simulations with a single API call, and create user-defined, randomized 3D virtual environments. Using the simulation service, you can speed application testing and create hundreds of new worlds from templates you define.



AWS RoboMaker is capable of automated testing within a continuous integration and continuous delivery (CI/CD) pipeline, training reinforcement models with high volumes of iterative trials and connecting multiple concurrent simulations to your fleet management software for testing. When combined with AWS machine learning, monitoring, and analytics services, robots can stream data, navigate, communicate, comprehend, and learn.

The [AWS RoboMaker resources](http://aws.amazon.com/robomaker/resources/) (<http://aws.amazon.com/robomaker/resources/>) page contains links to simulation education resources, simulation world assets, sample applications, workshop and tutorial libraries, and hardware developer kits.