

Checklist

Choose the Device Cloud That Fits the Need

If you're not currently leveraging a device cloud in your testing lab, this comparison chart compares private and public cloud solutions and the various benefits of each.

Device Access & Sharing

When testing using real devices, mobile testers and QA teams should test apps and mobile websites across all iOS and Android devices and operating systems. Whether enterprise team members are in one location or geographically dispersed, sharing devices among team members can be a challenge.

Common Issues	Private Cloud		Public Cloud
	On-Premises	Local	
I want to test on real, dedicated devices.	✓	✓	✗
I only need to access devices for a few minutes.	✗	✗	✓
I want quick access to a wide range of mobile operating systems/versions.	✓	✓	✓
I do not want to wait for popular devices to become available for testing.	✓	✓	✗
I sometimes need to test with a real device in my hand.	✓	✗	✗
I need to share devices with a geographically dispersed team.	✓	✓	✓
I want a solution that allows my devices to always be online and available.	✓	✓	✓

Test Automation

Mobile test automation enables teams to test and release faster than traditional manual testing. Whether relying on open-source or commercial testing tools, a mobile device cloud should support a variety of solutions for testing and collaboration.

Common Issues	Private Cloud		Public Cloud
	On-Premises	Local	
I want to test using Appium or other open-source automated testing tools.	✓	✓	✓
I still perform some manual tests and need a solution to support my manual testers.	✓	✓	✓

Device Management

Device management solutions are important to enterprise mobility teams wanting to organize and store devices in a single place, so they are readily available to all users for testing and development.

Common Issues	Private Cloud		Public Cloud
	On-Premises	Local	
It is hard for me to procure and access new devices.	✗	✓	✓
I want to centralize my company's mobile development and testing into one platform.	✓	✗	✗
I am tired of my devices disappearing from the drawer and getting lost.	✓	✓	✓
My Excel spreadsheet cannot keep up with the device checkout process.	✓	✓	✓
I do not want to manage devices onsite.	✗	✓	✓
I do not want to ship devices to different team members for testing.	✓	✓	✓

Continuous Integration

By setting up continuous integration for mobile app and mobile website testing, enterprise mobility teams can create a repeatable process that connects all mobile testing and quality assurance tasks. Not only does continuous integration boost mobile DevOps, but any bugs and issues are identified and can be repaired quickly.

Common Issues	Private Cloud		Public Cloud
	On-Premises	Local	
I want to use Jenkins or other commercial tools for continuous integration and delivery.	✓	✓	✓
I need to automatically verify the mobile experience with every new release after every build.	✓	✓	✓

Security

Enterprise mobility teams are tasked with building apps and mobile websites that rely on sensitive, proprietary data. Whether data is internal or customer-related, organizations must protect all data and associated development and testing environments.

Common Issues	Private Cloud		Public Cloud
	On-Premises	Local	
My company is sensitive about our data.	✓	✓	✗
My company's development and testing environment are not accessible outside of the company.	✓	✗	✗
My devices and apps require MDM software.	✓	✓	✗
I want to test on real, dedicated devices that are not shared with other organizations.	✓	✓	✗

