


# Corellium for Government

Corellium provides government agencies and service providers access to a powerful platform for creating Arm-native virtual devices to support their mobile vulnerability research, app penetration testing, and malware analysis needs.

The Corellium Virtual Hardware platform enables never-before-possible testing and research on virtual iOS, Android, and IoT devices. Through high-accuracy, Arm-native virtualization, it empowers researchers and security experts with the cutting-edge technology they need to stay ahead in the cybersecurity arms race.

**It's not an emulator; it's Arm on Arm virtualization.**





# Accelerate R&D with Virtual Devices

Corellium is the world's most powerful virtual hardware platform for Arm-powered devices. It enables unprecedented levels of research, development, and testing.

## Mobile Vulnerability Research

Provide never-before-possible security vulnerability research for iOS and Android with deep forensics and introspection tools. High-accuracy, Arm-native models enable real security vulnerability discovery and exploit validation. This is not an emulator or simulator – it's Arm on Arm.

## Mobile App Penetration Testing

Virtualize devices for static (SAST) and dynamic (DAST) application security testing. Leverage a powerful suite of built-in tools to simplify OS, app, data, and network analysis and introspection.

## Mobile Malware & Threat Analysis

Enable security threat and research teams with advanced investigative capabilities on virtual iOS and Android devices. Arm your Security, IT and SOC teams with the cutting-edge tools they need to stay ahead of cyber threats.

## Industries

- ✔ Government
- ✔ Service Providers
- ✔ Independent Researchers
- ✔ Public Sector







## Roles

- ✔ Vulnerability Researchers (CNO/CNE)
- ✔ Threat Response Teams
- ✔ Independent Verification & Validation (IV&V)
- ✔ Mobile Analysis



# Stay Ahead of Cyber Threats

Strengthen your defensive cybersecurity capabilities with in-depth research, testing, and analysis. Discover vulnerabilities and exploits before the bad actors do.

-  **Advanced research**  
Examine vulnerabilities with powerful debugging, device state, and runtime hooking functionality.
-  **High-fidelity testing**  
Leverage Arm-native models through high accuracy and fidelity virtualization, not emulation.
-  **Instant root access**  
Easily jailbreak/root iOS and Android, including the latest versions and beta releases.
-  **Dynamic testing**  
Analyze, trace, and log encrypted application traffic with built-in network monitoring tools.
-  **Deep introspection**  
Assess software at the lowest levels with powerful OS, app, file, system call, and network tooling.
-  **Tooling flexibility**  
Use our browser console and APIs with Frida, Binary Ninja, IDA Pro, Burp Suite, and all of your favorites.



# Push Your R&D Forward

Revolutionize and accelerate R&D on iOS, Android and IoT devices through hardware virtualization.

## Workspace Security

Manage and support your teams and their workflows through a centralized server solution that unlocks collaboration while providing visibility and control.

- ✔ **Visibility** - Eliminate desktop-based R&D that is decentralized and poses security and compliance risks.
- ✔ **Control** - Simplify onboarding, role-based access (RBAC), and offboarding through centralized administration.
- ✔ **Procurement** - Eliminate physical device procurement and risks by allocating virtual hardware resources to specific teams with user and project workspace management tools.
- ✔ **Sandboxing** - Sandbox with network-isolated virtual hardware for safer threat analytics and malware detonation.
- ✔ **Collaboration** - Quickly create and deploy pre-configured virtual devices across users and teams with one-click device snapshot, restore, and cloning functionality.



Corellium  
Server Appliance

## Government Proven

Corellium technology has been extensively government battle-tested, designed from its inception to meet the most stringent security and compliance needs.

- ✔ **Adopted** - Numerous U.S. and international agencies rely on Corellium virtualization technology for their critical security, compliance, and privacy research work.
- ✔ **Flexible** - A single platform can support all Arm device virtual workloads, and enable defensive and offensive (CNE and CNO) research, exercises, and cyber range programs.
- ✔ **On-Site** - Maintain security compliance with a completely on-site and air-gapped solution. The Corellium platform is available as pre-configured, Arm-powered server appliances for centralized management and control.
- ✔ **Training** - The Corellium virtual hardware platform is an excellent hands-on teaching platform for developing security skill sets and best practices, all through simple browsers.



## Extensible Platform

The Corellium Virtual Hardware platform is based on our innovative Corellium Hypervisor for Arm (CHARM) technology and can support many types of Arm-powered device models:

- ✔ **Included** - We provide iOS and Android virtual device models that are ready to go.
- ✔ **Extended** - Create custom extensions to our standard device models.
- ✔ **Custom** - Develop entirely new virtual models of your own IOT devices.



Corellium Desktop Appliance

## Corellium Virtual Hardware Platform



### VIRTUAL DEVICES

Arm-powered phones and IoT devices with endless OS and model combinations.

### HYPERVISOR

Corellium Hypervisor for Arm (CHARM) is a type 1 hypervisor and the only one of its kind.

### ARM SERVER

Virtual models run on Arm, just like real devices, combining native fidelity with on-demand availability.

### • TOOLING

Simplified connection of IDE, debugging, network and security tools and comprehensive APIs.

### • CONTROL

Configure device buttons, sensors, location, environment, battery, device IDs, ports, cameras and mics.

### • X-RAY VISION

Powerful OS, app, file, system call, and console access and control.

### • INTROSPECTION

Advanced OS, kernel and boot control and tooling.

### • NETWORK ANALYSIS

HTTP/S traffic inspection, tracing, and logging.

### • REPLICATION

Snapshot, clone, and restore device states.

### • TEAMING

Easy project workspace management and team collaboration.

### • ROOT ACCESS

Root or jailbreak devices instantly, no need to add code or apply security vulnerabilities.



## Flexible Deployment Options

### Corellium Appliances

Corellium's on-site appliances use the latest Ampere Altra Arm servers. On-site servers can be air-gapped for use in high-security locations.



### Corellium Cloud

Corellium's cloud service is hosted at AWS, using Amazon's Graviton Arm servers. Private AWS deployments are also supported.



# Corellium Onsite Solutions

	Standard <i>Mobile App Testing</i>	Enterprise <i>Full-Stack Testing</i>	Premium <i>Advanced R&amp;D</i>
	<ul style="list-style-type: none"> <li>• Mobile App Pen-Testing</li> <li>• Mobile App DevOps</li> <li>• Physical Device Replacement</li> </ul>	<ul style="list-style-type: none"> <li>• OS Security Research</li> <li>• App Compliance &amp; Privacy Testing</li> <li>• Mobile Security Training</li> </ul>	<ul style="list-style-type: none"> <li>• Adv Vulnerability Research</li> <li>• Exploit Research (CNO/CNE)</li> <li>• Custom Model Development</li> </ul>
Root/jailbreak any OS version	✓	✓	✓
Device snapshot & cloning	✓	✓	✓
Team & workspace management	✓	✓	✓
Root file system access	✓	✓	✓
Network traffic monitoring	✓	✓	✓
Frida and Cydia integration	✓	✓	✓
Process and system call tracing	✓	✓	✓
Advanced device configuration	✓	✓	✓
Sensor and battery controls	✓	✓	✓
Virtual WiFi and SMS	✓	✓	✓
GPU and H.26x acceleration	✓	✓	✓
Biometric bypass	✓	✓	✓
Debug accelerator	✓	✓	✓
Restore iOS backups	✓	✓	✓
RAM access and modification		✓	✓
Boot control and modification		✓	✓
Advanced network monitoring		✓	✓
Kernel patch management		✓	✓
Kernel debugging		✓	✓
Device tree configuration		✓	✓
iOS update support		✓	✓
OS beta support			✓
HyperTrace			✓
Kernel hooking			✓
IMEI and IMSI configuration			✓
Custom firmware support			✓

Free trials at [Corellium.com](https://Corellium.com)