



SOLUTION BRIEF



Create a Seamless Arm Virtual Hardware Development Environment Using Remote.It



ARM IP

- + Cortex-M
- + Cortex-A
- + Cortex-R
- + Security IP
- + Software Development Toolkit

OVERVIEW & GOAL

Remote.It manages your network configuration so you don't have to. It allows you to offload IP allow list, subnet range, VLAN, security groups, and Docker/AWS route tables configurations to Remote.It., and save hours of work onboarding or offboarding employees, setting up new services, scaling services up or down, and more. Connections work even in the most complex environments, such as 5G and Starlink CGNAT, that do not provide a global IP address so port forwarding is not an option. Devices can be in any environment or move between networks.

With Remote.It, developers can connect to their internal, public cloud, and Arm Virtual Hardware (AVH) devices simultaneously to streamline development and testing.



APPLICATION AREA

- + Industrial
- + IoT
- + Frameworks & Tools
- + Security
- + 5G
- + Infrastructure
- + Cloud Computing

CHALLENGE

Development environments can become very complex. Services can be anywhere, such as AVH, AWS, GPC, Azure, local company on-prem, company private cloud/colocation, IoT, or prototype devices. In addition, there can be multiple environments to manage, such as production, QA, staging, and development.

There are lots of IT VPN, IP address, subnet, VLAN, security groups, IP allow list, etc to manage. If you do everything right, developers can work with some pain points (e.g. unable to connect to multiple VPNs at the same time, etc.), however, if something is misconfigured, it could lead to a data breach.

Companies spend many hours planning, maintaining, resolving network configuration issues, onboarding/offboarding employees, supporting new resources, and scaling resources up and down.

Developers should have the same experience developing locally as well as remotely. Automation and orchestration tools exist for compute and storage management, and so should networks.

SOLUTION & BENEFITS

Remote.It accelerates development by providing connectivity of users and devices without having to manage IP allow lists, subnet range overlaps, VLAN segregations, public cloud routing tables, and more.

Remote.It enables AVH developers to connect devices and services from anywhere with their AVH environment. AVH users can use Remote.It to remotely access their Arm-based virtual devices without complex VPNs or network configuration changes. Developers can access services running on AVH devices, such as web applications, secure shell (SSH),

virtual network computing (VNC), remote desktop (RDP), file transfers, databases, and more. Developers also can combine AVH devices into the same network as local and devices in other public clouds, including AWS. Remote.It enables users with APIs and scripts to programmatically manage their AVH network.

Users can install Remote.It during the AVH device provisioning process and share access by email with granular permissions to individual services. Developers access all remote devices, including AVH devices, via a local host IP address and random port number, such as 127.0.0.1:33005. For developers, the service is running locally on their development machine, and they can use their existing tools.