

Firewall & Networking Requirements.



V2.0
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Your **Videoloft Cloud Adapter** will register on your network with a hostname like `cloudadapter12345`.

It needs to talk to the following services on the public internet:

1. Videoloft, and essential supporting services, on TCP port 443¹:
 - *.manything.com
 - *.videoloft.com
 - *.amazonaws.com
 - *.mender.io
 - *.cloudflarestorage.com
 - *.wasabisys.com
2. DNS on UDP port 53:
 - 8.8.8.8 and 8.8.4.4 (recommended) or whatever DNS servers you've chosen²
3. UDP port 123³:
 - videoloft.pool.ntp.org⁴
 - time.aws.com
 - time.cloudflare.com
 - time.google.com

It also needs to talk to your private network to access your NVRs and/or cameras:

4. TCP port 443 or 80 for HTTP(S) configuration
5. TCP port 554 for video streams
6. UDP ports 3702 and 5353 for camera discovery and local DNS

Finally, avoid running the Cloud Adapter behind a web proxy or content filter. If you must do so, add the Adapter (by hostname or IP) to an exclusion list so that it has unfiltered access to the internet.

¹We recommend whitelisting by domain names rather than IP addresses, as IP ranges change over time. If you do need to whitelist IP ranges, here is information for [Amazon](#), [Wasabi](#) and [CloudFlare](#).

²The Cloud Adapter will use whatever DNS server settings it's given, either via direct configuration or over DHCP, but please note that some local DNS services (like the ones on ISP-supplied routers) and ISP-supplied DNS services (often used by those ISP-supplied routers) can block busy clients like Cloud Adapters with many cameras - the problems this causes can be hard to diagnose. We've found Google's DNS servers at 8.8.8.8 and 8.8.4.4 to be most reliable, so we recommend configuring your network and/or the Cloud Adapter to use those services.

³Cloud Adapters will use whichever of these are available - they can't function without consistently accurate time so please ensure as many as possible are accessible.

⁴Please note the change from *.debian.pool.ntp.org in previous versions of this document.