

# NetGuard – Android Application Firewall

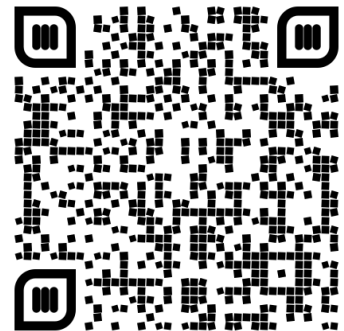


**NetGuard**

No-root firewall

Patrick Ladd  
[pmladd@gmail.com](mailto:pmladd@gmail.com)

HV Open September 2020 Meeting



# Why?

- Reduce data usage
- Save battery
- Increase privacy



# Features

- **No root required**
- 100% open source
- No calling home
- No tracking or analytics
- No advertisements
- Actively developed and supported
- Android 5.1 and later supported



# Dashboard

A screenshot of the NetGuard dashboard showing a list of applications. The top bar is green with a shield icon, a search icon, and menu icons. The list includes:

- Tangle Master 3D (Blocked)
- Tank Stars (Blocked)
- Traffic Run! (Blocked)
- Train Taxi (Blocked)
- [DB] Collins Cobuild Advanced Dictionary (Allowed)
- &pizza (Allowed)
- 2019 WSJ (Allowed)
- ACME Acme (Allowed)
- Acrobat for Samsung (Allowed)
- Activity Launcher (Allowed)
- Adventure On (Allowed)

A screenshot of the NetGuard Legend screen. The top bar is green with a shield icon, a search icon, and menu icons. The legend lists various status icons and their meanings:

- No active internet connection
- NetGuard is busy
- Network is metered
- Unmetered traffic is allowed
- Traffic is locked down
- Unmetered traffic is blocked
- Unmetered rules are not applied
- Metered traffic is allowed
- Metered traffic is blocked
- Metered rules are not applied
- Allow when screen is on
- Block when roaming
- Address is allowed
- Address is blocked

By default a Wi-Fi connection is considered to be unmetered and a mobile connection to be metered

A screenshot of a NetGuard notification. The notification is white with a black border and contains the following text:

NetGuard 4:58 PM

Enforcing rules

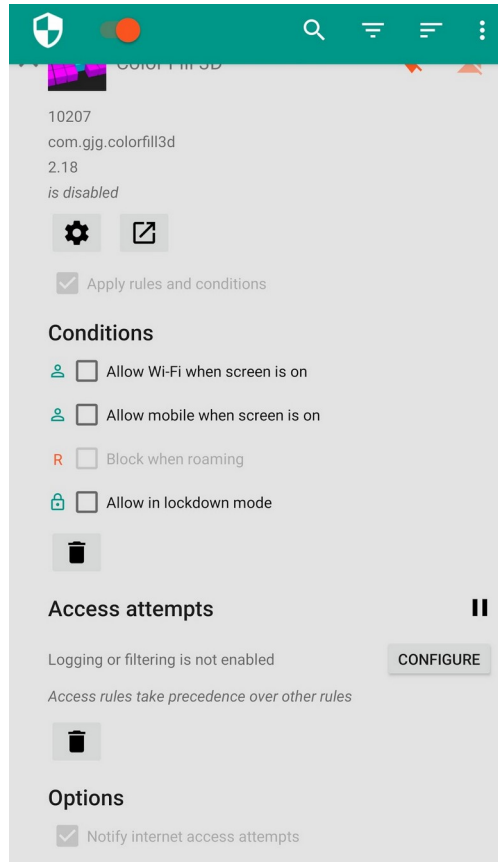
695 allowed, 32 blocked



NetGuard needs your help. Tap to purchase pro features to keep the project going.

NetGuard needs your help. Tap to purchase pro features to keep the project going.



# Configure App



The screenshot shows the configuration page for the app 'Color Fill 3D' (package com.gjg.colorfill3d, version 2.18). The app is currently disabled. The interface includes a green header with a shield icon, a search icon, and menu icons. Below the app name, there are icons for settings and sharing. A checkbox labeled 'Apply rules and conditions' is checked. Under the 'Conditions' section, there are four options, all unchecked: 'Allow Wi-Fi when screen is on', 'Allow mobile when screen is on', 'Block when roaming', and 'Allow in lockdown mode'. A trash icon is visible below the conditions. The 'Access attempts' section shows 'Logging or filtering is not enabled' and a 'CONFIGURE' button. A note states 'Access rules take precedence over other rules'. At the bottom, under 'Options', the checkbox 'Notify internet access attempts' is checked.


Color Fill 3D


10207  
com.gjg.colorfill3d  
2.18  
is disabled


 


Apply rules and conditions


**Conditions**


  Allow Wi-Fi when screen is on


  Allow mobile when screen is on

  Block when roaming


  Allow in lockdown mode



**Access attempts** 

Logging or filtering is not enabled 

*Access rules take precedence over other rules*



**Options**

Notify internet access attempts



# Settings

Lockdown traffic

- Show log
- Settings
- Pro features
- Invite
- Legend
- Support
- About
- Other apps

1010!

1010! Color

2048 Charm

2048 plus

3D Matrix Pro Vo

Atomas

Castle Wreck

Color Bump 3D

Color Fill 3D

Crowd City

NetGuard needs your help. Tap to purchase pro features to keep the project going.

## Settings

- Defaults (white/blacklist)
- Options
- Network options
- Advanced options
- Speed notification
- Backup
- Technical information

## Pro features

The following pro features are available:

- View blocked traffic log BUY
- Filter network traffic BUY
- New app notifications BUY
- Network speed graph notification BUY
- Appearance (theme, colors) BUY
- =
- All above pro features BUY
- ≠
- Support development BUY
- Support development BUY

*A monthly subscriptions of 1 or 2 euros (excluding local taxes) will activate all pro features. You can cancel or manage a subscription via the subscriptions tab in the Play store app.*

Tap on a title for more information

All Pro Features \$8.49  
Per feature - \$0.99 - \$4.49



# Caveats / Problems

- **Uses Android VPN service – only 1 VPN – won't work with another VPN**
- **Some Android versions, especially Samsung's Android versions, have a buggy VPN implementation**
- **NetGuard is not supported for apps installed in a work profile or in a Secure Folder**



# Resources

- **Store page:**

- [https://play.google.com/store/apps/details?id=eu.faircode.netguard&hl=en\\_US](https://play.google.com/store/apps/details?id=eu.faircode.netguard&hl=en_US)

- **Github:**

- <https://github.com/M66B/NetGuard>

- **Website:**

- <https://netguard.me/>

