

Gaming on Linux

Is it even possible?!?!?!

► Some resources -

gamingonlinux.com -- News / Articles + Forum
linux-gaming.kwindu.eu -- A community built wiki
areweanticheatyet.com -- Are we anti-cheat yet?
gamersonlinux.com -- Forum
protondb.com -- Crowdsourced game compatibility report for Proton





How to install games and what they run on



Lutris

- <u>lutris.net</u> Python3, GTK
- Helps you install your games Can connect with existing accounts like Steam, GOG
- Provides runners as well (.e.g compatibility layers, emulators, game engine re-implementations)
- Integrates with other game clients / launchers (e.g. Epic Games Store)

Heroic

- <u>heroicgameslauncher.com</u> Electron, TypeScript, NodeJS
- Launches games from Epic Game Store, GOG Games and Amazon Games

Wine -

- Wine = Wine Is Not an Emulator
- Compatibility layer Runs Windows apps on POSIX systems
- Translates Windows API calls into POSIX calls

- Anti-cheats

- Measures: File integrity checks, behavioural measures,
- Some have proton runtimes but can be disabled by the game devs
- Userspace vs kernel space



















Nvidia



- Mandatory video:
 - https://www.youtube.com/watch?v=MShbP3OpASA&t=2894s
- Releases closed-sourced blobs
- nouveau Open source project to build drivers for Nvidia cards
 - nouveau.freedesktop.org/FAQ.html#technicalquestions
- TLDR; Nvidia and Linux works fine most of the time.
 - Proprietary drivers are better than nouveau

HMD 4 AMD

- Has open-source drivers for Linux Worked on by AMD as a development tree in kernel source code
- kernel.org/doc/html/latest/gpu/amdgpu/index.html





23Valve & Steam



Not an evil company... yet



► Proton -

- A tool used within the Steam client to run Windows-exclusive titles on Linux. Recommended to use it within Steam client.
- Uses Wine under the hood
- protondb.com

► SteamOS •

- Used to be Debian 8 (Jessie) (1.0 2.0), now Arch Linux (3.0)
- Optimized for the "living room experience", not all hardware is supported
- Steam Deck, Steam Machines
- Now 3.0, not for desktop use!

Remaining word salad

- OpenGL
- Vulkan

THANKS!

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