Andy OS FAQ 0.44

Installing:

HandyAndy:

Andy:

Installing

<u>System Requirements:</u>

- Dual core AMD or Intel CPU with Virutalization support

- 3Gb of RAM; Andy uses less than 1Gb while running apps

- At least 10Gb of free disk space

- GPU with OpenGL 2.1 support

- Windows 7 SP1 / Windows 8.1 / Ubuntu 14.04+ / OSX 10.8+

<u>Preparation:</u>

In order for everything to go smoothly, there are a few steps you should take before installing Andy;

1. Check if your CPU supports Virtualization (aka. VT-x, Intel Virtual Technology, SVM...). In order to do so, you can refer to [Intel ARK](#) for Intel CPUs or [CPU-World](#) for AMD CPUs.
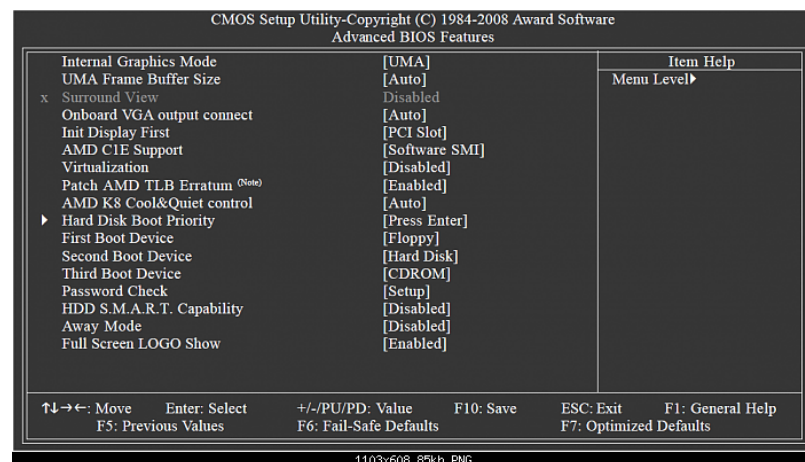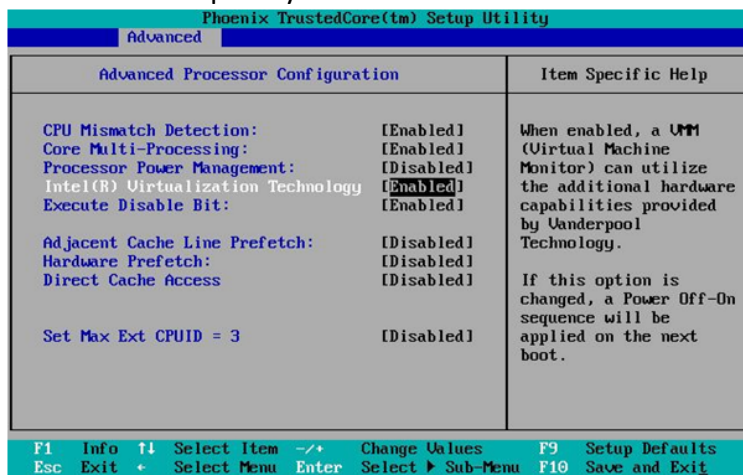
Multiprocessing	Uniprocessor
Features	■ MMX instructions
	■ Extensions to MMX
	■ SSE / Streaming SIMD Extensions
	■ SSE2 / Streaming SIMD Extensions 2
	■ SSE3 / Streaming SIMD Extensions 3
	■ SSSE3 / Supplemental Streaming SIMD Extensions 3
	■ SSE4 / SSE4.1 + SSE4.2 / Streaming SIMD Extensions 4
	■ SSE4a
	■ AES / Advanced Encryption Standard instructions
	■ AVX / Advanced Vector Extensions
	■ BMI1 / Bit Manipulation instructions 1
	■ F16C / 16-bit Floating-Point conversion instructions
	■ FMA3 / 3-operand Fused Multiply-Add instructions
	■ FMA4 / 4-operand Fused Multiply-Add instructions
	■ TBM / Trailing Bit Manipulation instructions
	■ XOP / eXtended Operations instructions
	■ AMD64 / AMD 64-bit technology
	■ VT / Virtualization technology
	■ EVP / Enhanced Virus Protection
	■ Turbo Core 3.0 technology
Low power features	PowerNow!

Advanced Technologies		
Intel® Turbo Boost Technology ‡		2.0
Intel® vPro Technology ‡	🔍	No
Intel® Hyper-Threading Technology ‡	🔍	Yes
Intel® Virtualization Technology (VT-x) ‡		Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	🔍	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	🔍	Yes
Intel® 64 ‡	🔍	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	🔍	Yes
Intel® Demand Based Switching	🔍	No
Thermal Monitoring Technologies		Yes
Intel® Identity Protection Technology ‡		Yes
Intel® Smart Response Technology		Yes

2. If your CPU supports Virtualization, you will need to enable it. Most machines come with Virtualization disabled by default. To access your BIOS this is what you need to do:

- **Windows 7 and non-UEFI setups:** When your computer is booting up and you see your manufacturer's logo, press one of the following keys repeatedly until the BIOS Window shows up; F2, F12, Del, ESC or F1.

- **Windows 8+ with UEFI set up:** Open PC Settings > General > Advanced Startup > Restart Now. Your computer will restart into a special mode, go to Troubleshoot > UEFI Firmware Settings.

Once you're in the BIOS interface, look for Virtualization, VT-x, Intel Virtual Technology, SVM, AMD-v or anything that says 'Virtual' and enable it. Once that's done, turn off your computer completely then turn it back on. Now Virtualization is enabled!

3. In order to avoid issues and security flaws, you need to make sure Windows is up to date. To do so, run Windows Update, Check for Updates, then check all available updates. You may need to do this more than once after reboots. You could also install all optional Windows updates.

4. To fully take advantage of Andy's gaming potential, we recommend you install the latest updates for your graphics drivers. If you have dual graphics (Intel+Nvidia or Intel+AMD) you will need to update both drivers since they work hand-in-hand.

You will need these links to update;

Intel GPU: Intel Update Utility

Nvidia GPU: GeForce Update

AMD GPU: AMD Driver Downloader

5. To avoid issues with Virtualbox, you might consider updating your network drivers. All NICs need to be up to date, check the NIC's manufacturer's website instead of the OEM. In some cases updating audio drivers could be required, if they're too old.

Install:

Download Andy [here](#) then run and install, it's that simple!

The installer automatically detects the environment, downloads the required files then installs with the correct settings. However, if you are an advanced user and you would like to customize the setup process, here is an explanation of what every field does and the requirements for each:

- Uninstall Virtualbox check-box: This will remove Virtualbox from your computer in order to let the setup install it again with the correct settings. It will NOT remove any of your machines.

- Folder for Andy Program:

- Folder for Virtualbox Program:

- Folder for Initial Andy VM:

- Skip Installing Virtualbox check-box:

Here is a list of errors you might encounter while/after installing and how to fix them:

- ***"Virtualization is DISABLED in your BIOS !!"* when installing Andy:** You need to enable Virtualization in your system's BIOS first, [here is how](#).

- ***"Windows cannot find %ProgramData%\Andy_44_Online\Setup.exe"* when you run the installer:** You are running Windows XP, Andy does not support Windows XP. Refer to the [system requirements section](#).

- ***"Unable to load R3 module %path%\libAndyPipe.dll"* error when you run Andy:** This error occurs on Windows 7 only. This issue is related to a certificate not being handled properly. To do this, simply install ALL Windows updates available. Doing so will also prevent future issues with Andy and other programs.

- ***"Machine_get_state()"* error when you run Andy:** This error occurs usually when you do not reboot when the installer finishes. Simply reboot your machine then try running Andy again. If that does not work, reinstall Virutalbox then run Andy again.

- ***"Unable to launch VM Process: No error info"* error when you run Andy:** This error could appear after a power outage due to which Andy was disrupted. This means the machine files were corrupted due to the unexpected shutdown of the machine. Go to **HandyAndy>Settings>Factory Reset** then follow the steps to reset your machine. This will delete ALL your data inside Andy, which was probably lost anyways.

- ***"Unable to launch VM Process: The virtual machine 'andy' has terminated unexpectedly during startup with exit code 1."* error when you run Andy:** Reinstall Andy with the default settings and choose to replace Virtualbox.

- ***"Cannot create Andy_44_Online\filename"* when you run the installer:** This can happen when you have two instances of the installer running. To fix it, restart your computer then run the installer again.
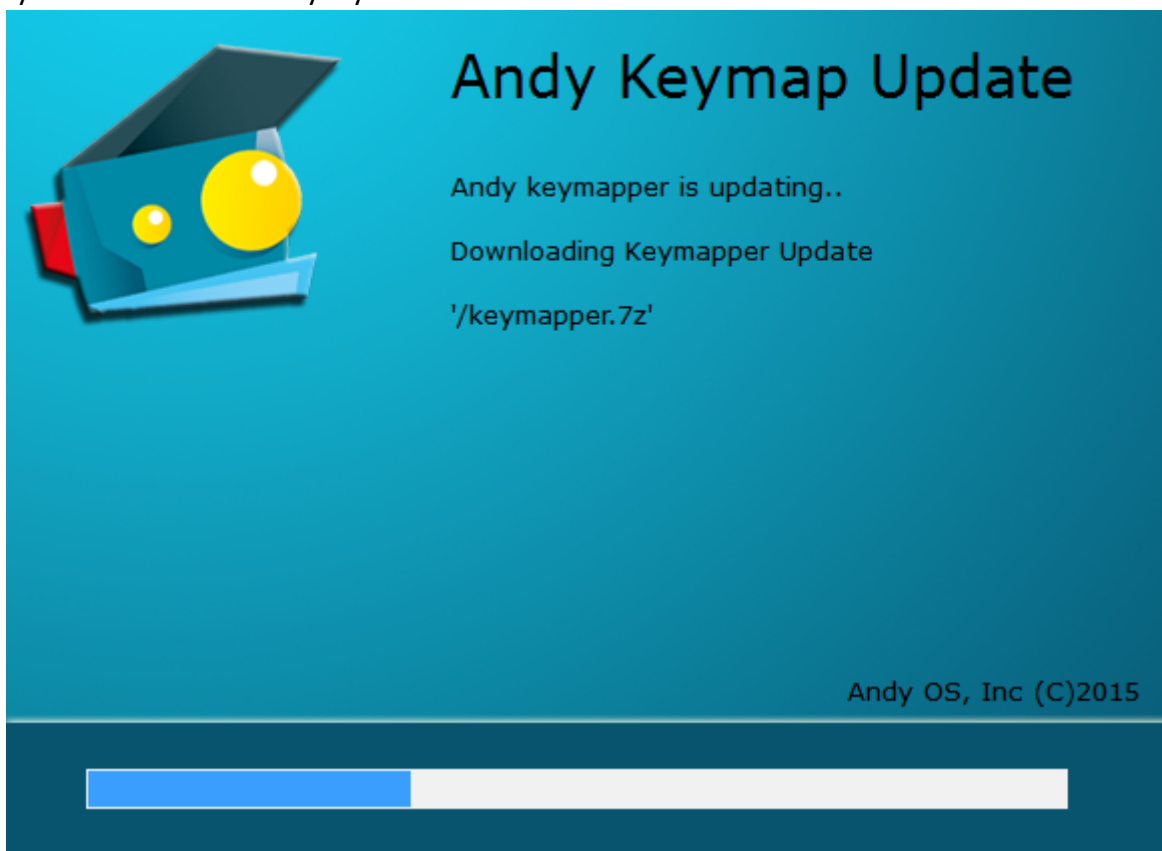
HandyAndy

Package Logs:

Creates a package with all the necessary logs to submit for support requests or bug reports. The .7z file is placed on your desktop.
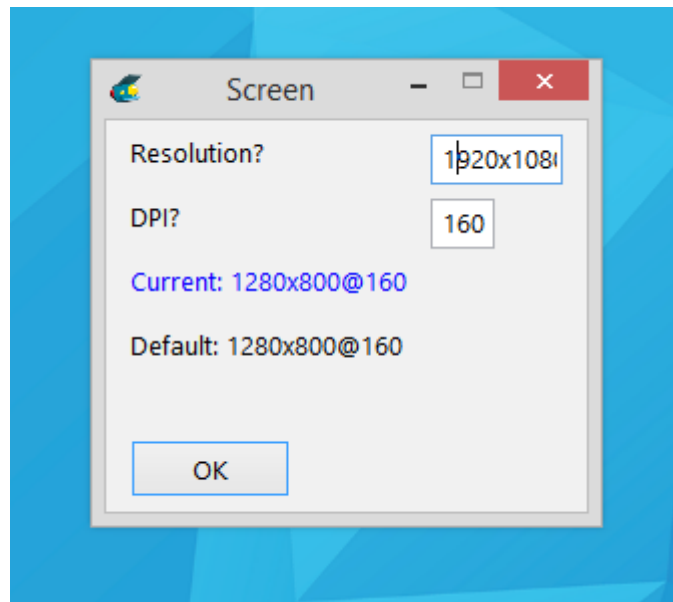
Check for New Keymaps:

Manually checks for updates for new keymaps. The update is done once a day automatically, but you can run it manually if you wish.

Set Resolution@DPI:

Lets you choose your resolution and DPI. The format is HorizontalxVertical@DPI in pixels. Note that the multiplication sign is an x, instead of a *. You can leave the DPI at the default 160, but if it doesn't look right to you, here is a website that calculates the right DPI for your screen's resolution and size. Experiment with different values and find one that works for you.

Toggle Launch Fullscreen:

Toggles whether Andy starts in fullscreen or windowed mode.

Toggle System Bar:

Toggles whether the Andy system bar at the bottom of the window shows or not.

Toggle Right-Click Back:

Toggles whether the right-click in Andy triggers a back signal. This is very useful for mouse and touch-pad operation. For touchscreens, however, a long press is considered a right-click which will lead to going back every time you try to long-press anything inside Andy.

This setting is OFF by default for machines with a touchscreen and ON for machines without one.

Toggle Log Auto-Purge:

Toggles whether or not Andy's logs are deleted every time you start Andy. Log files can take up quite a bit of space over time, which is why you might consider deleting them with Andy's start. You could always manually delete them every once in a while. Logs are placed in **%userprofile %\AppData\Roaming\Andy** and **%userpofile%\Andy**.

Set Virtual WiFi MAC:

!ADVANCED! Changes the Virtual WiFi MAC address for Andy. This can disrupt many services inside Andy and Android, so do NOT change it if you are not sure what you are doing or have been instructed by a support admin.

Set Android UID:

!ADVANCED! Changes the Android UID for Andy. This can disrupt many services inside Andy and Android, so do NOT change it if you are not sure what you are doing or have been instructed by a support admin.
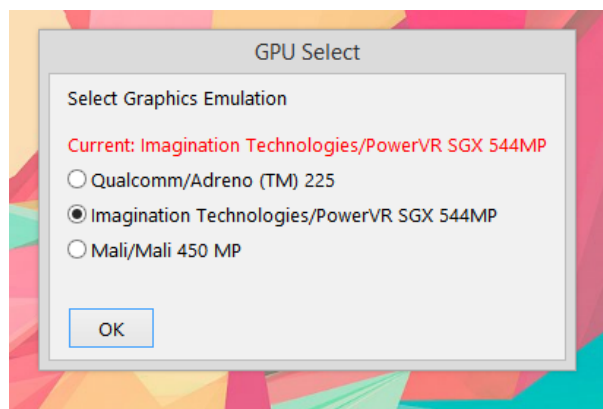
Set Android IMEI:

!ADVANCED! Changes the Android IMEI for Andy. This can disrupt many services inside Andy and Android, so do NOT change it if you are not sure what you are doing or have been instructed by a support admin.

Set Andy Protocol:

!ADVANCED! Changes Andy's streaming protocol. Using TCP could offer better compatibility if your Windows isn't up to date. Pipe, however, is 10x faster and will offer much better performance in games.

Set GPU Type:

Use this to change the emulated GPU in Andy. This should not matter most of the time, however some games have different defaults for different GPUs. Play around with this to your
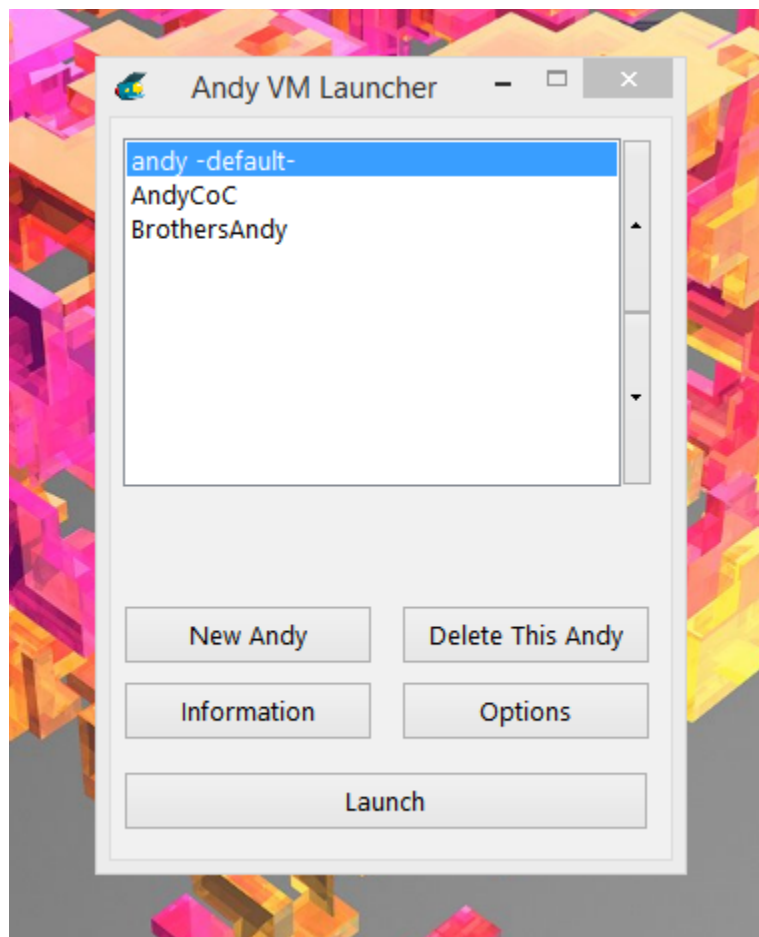
heart's content, it will not break anything—aside from games that require certain GPUs of course.

Factory Reset:

Resets the machine to factory default. Use this to get a new machine if the current one is broken for example. It will delete all the data and settings inside your Andy. It will be as if you bought a new tablet.

Andy Launcher:

Andy Launcher allows you to create and manage multiple Andy machines. Think of it as having multiple tablets for different uses. There is no limit to how many machines you can create except the limit of space on your hard drive, of course.

- **New Andy:** Creates a new machine and adds it to the list.

- **Delete This Andy:** Deletes the selected machine and all its files.

- **Information:** Offers information on the selected machine. This can be required for support requests.

- **Options:** Changes the amount of RAM and the number of CPU cores allocated for the selected machine. Also switches the network connection type between NAT and Bridged.

- **Launch:** Starts the selected machine.

Andy Launcher will start when you double click HandyAndy's icon in the task bar.

Term Shell:

Gives shell access to the Android machine. If you do not know what shell is, you do not need this.
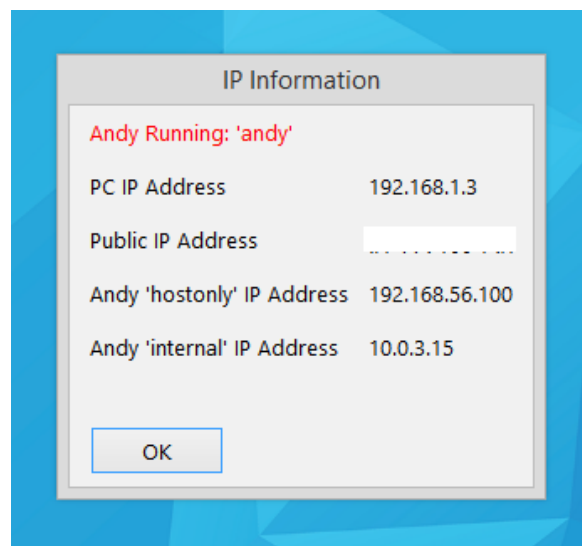
Toggle On-Screen Keyboard:

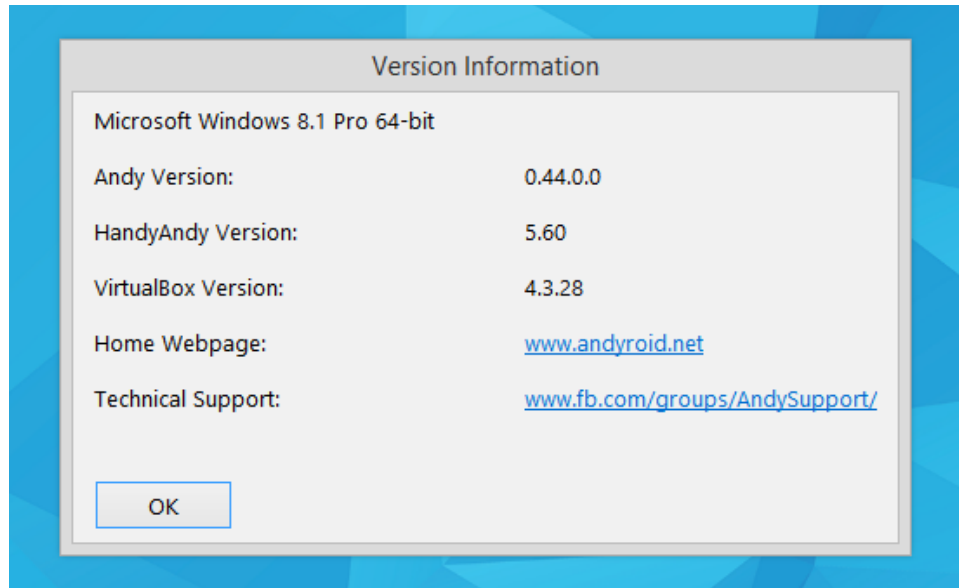Opens the Windows On-Screen Keyboard.

Andy IP Information:

Returns your computer's local IP address, your computer's public IP address, Andy's host-only address and Andy's internal address.
For Andy Remote Control you will need the address in **"PC IP Address"**.

Version Information:

Returns Windows' version, Andy's version, HandyAndy's version and Virutalbox' version.

Installing APK Files:

To install an APK to Andy, simply double click it. If that does not work, place it in the shared folder and install it from within Andy.
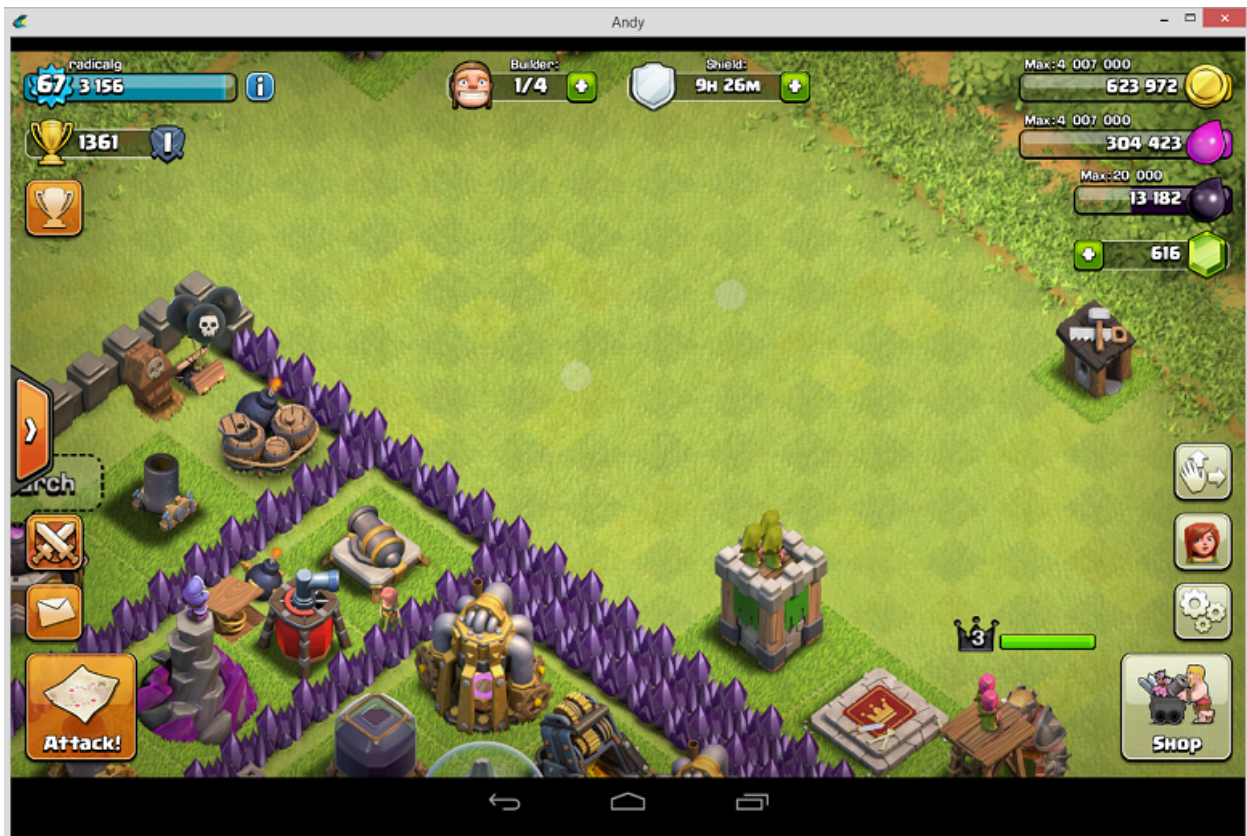
AndyPriorityMgr:

Andy priority manager offers adb access to the machine (via cmd). This is essential for both Term Shell and APK installs. Make sure AndyPriorityMgr is running in your task manager if either one of those fails.

Andy

Zoom:

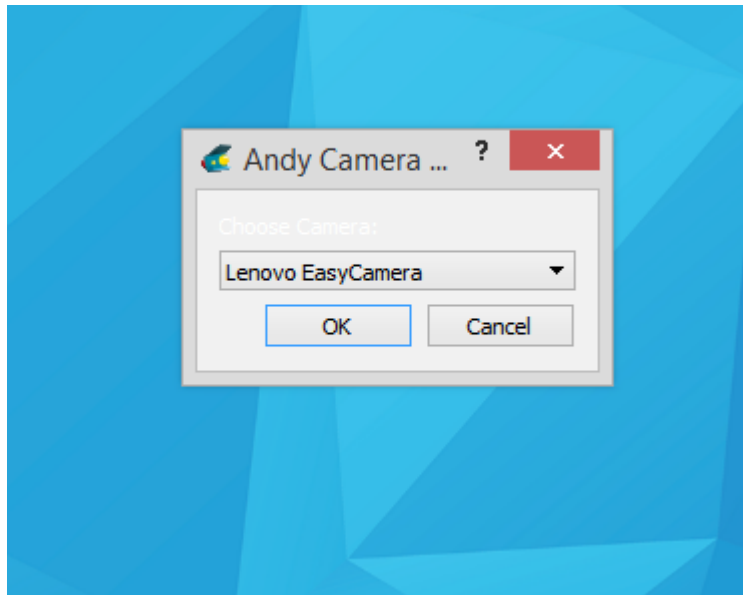Use **Ctrl+mouse** to zoom in/out in Andy. It is pretty intuitive, try it out!

Keymapper and Gamepads:

(This section will be added shortly)

Camera and Mic:

Andy can use both your camera and microphone. You do not have to do anything special to get this working. However, if you have multiple cameras or multiple microphones attached to your system, you might need to select the one you would like to use. You can do so from Andy's

[system bar](#). Just click the appropriate button (Cam or Mic) and pick the camera and microphone you want to use in Andy.
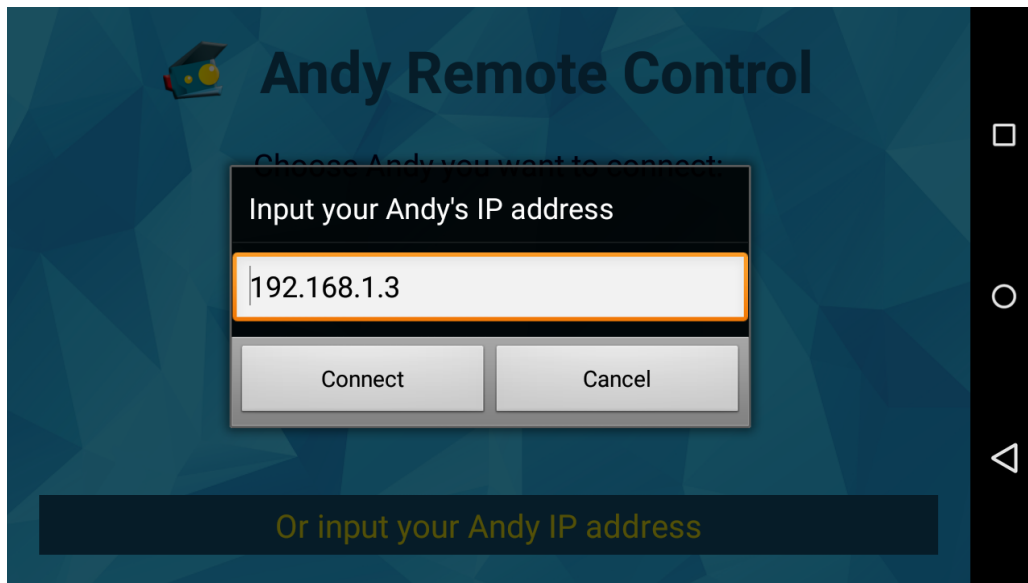

Andy Remote Control:

[Download here](#)

If you have an Android smartphone running Android 2.2 and up you can control Andy with your phone. This let's you take advantage of multitouch, gyroscope, accelerometer, [location](#) and other various sensors to control your games and apps in Andy.

All you need to do is:

1. Download the app on your phone

2. Make sure Andy is not blocked by your firewall

3. Connect your phone and computer to the same network

4. Run Andy then start the Remote Control on your phone.

The app should announce the running Andys on your network. But in case it doesn't you can enter your IP address manually. You can find the correct address in [Andy IP Information](#).

AndyHOME:

AndyHOME is Andy's own launcher. It is optimized to work with Andy and to offer the best experience on a big screen. It also offers app suggestions related to apps you installed.

Copy/Paste:

You can copy/paste between Andy and your system using **Ctrl+C**, **Ctrl+X** and **Ctrl+V.** However, to select in Android you need to long press the text and move the selection limiters instead of dragging across it as you would on desktop.

Fullscreen:

You can switch Andy to/from fullscreen by using the 'Fullscreen' button in the system bar or by pressing **F11**. You can also set Andy to start in fullscreen.

Changing Orientation:

You can set the screen orientation in Andy using the switches in the system bar.

- Landscape: Sets the orientation to landscape.

- Portrait: Sets the orientation to portrait.

- Device: Let's the device decide which orientation to set.

Please note that some application require a certain orientation. In that case, no matter which orientation you force Andy into won't work as long as the application is active.

Shared Folder:

To share files between your computer and Andy, you need to place them in the shared folder. The path for which is;

On Windows: %userprofile%\Andy\

On OSX: ~/Documents/Andy/

On Linux: ~/Andy/

You can then find your files in **/storage/sdcard0/Shared/Andy/**

Location:

Andy 0.44 uses your system location instead of the IP location. This allows for more flexibility and control.

If you have a GPS device attached to your computer, you can use it in Andy. Basically if your operating system can use the GPS device's location, then so will Andy.

In case you don't have a GPS device but want an accurate location in Andy, you can use Andy Remote Control. Once you connect your phone, Andy will receive location information from your phone instead of system location.

Mock location is not available at this time.