# Esports



# System & Networking Guide



Contained within this guide is an exhaustive list of titles that may be installed in an esports lab on your campus depending on varsity & club offerings.

In addition to the accept listing below, the program director needs local admin to all esports computers due to the constant updates these programs receive and the rigorous practice & competition schedule. The inability to update several titles each match day will result in forfeitures impacting program & student success







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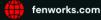
#### **PC Program Categories:**

- Driver
- Client
- Utility
- Game











# Chipset Driver (AMD or Intel)

Category: Driver

Links:

AMD: <a href="https://drivers.amd.com/drivers/installer/20.50/beta/radeon-software-adrenalin-2020-21.3.1-minimalsetup-210317\_web.exe">https://drivers.amd.com/drivers/installer/20.50/beta/radeon-software-adrenalin-2020-21.3.1-minimalsetup-210317\_web.exe</a>

Intel: <a href="https://www.intel.com/content/www/us/en/support/detect.html">https://www.intel.com/content/www/us/en/support/detect.html</a>

**Explanation:** Drivers that allow the motherboard and computer processor to stay up to date and functioning.

Accept list: N/A

# GPU Driver (AMD or Nvidia)

Category: Driver

Link:

AMD: <a href="https://drivers.amd.com/drivers/installer/20.50/beta/radeon-software-adrenalin-2020-21.3.1-minimalsetup-210317\_web.exe">https://drivers.amd.com/drivers/installer/20.50/beta/radeon-software-adrenalin-2020-21.3.1-minimalsetup-210317\_web.exe</a>
Nvidia: <a href="https://www.nvidia.com/en-us/geforce/drivers/">https://www.nvidia.com/en-us/geforce/drivers/</a>

**Explanation:** Drivers that allow the graphics card to stay up to date and functioning.

Accept list: N/A





### Discord

Category: Utility

Link: <a href="https://discord.com/api/download?platform=win">https://discord.com/api/download?platform=win</a>

**Explanation:** Program that allows students and coaches to communicate with each other and other teams. Necessary for club communication, tournaments (administration, registration, participation, etc.), leagues (administration, registration, participation, etc.), and college recruitment.

Accept list: N/A

# **Streamlabs**

Category: Utility

Link: https://streamlabs.com/slobs/download

**Explanation:** Program allowing lab computers to stream events and matches

to Twitch.tv

Accept list: N/A

### Gif Your Game

Category: Utility

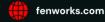
Link: https://www.gifyourgame.com/

**Explanation:** Utility that allows players to capture moments from their competitive matches that can later be uploaded to the team website and social media.

Accept list: N/A









# Epic Pen

Category: Utility

Link: https://epic-pen.com/download

Explanation: Utility that allows coaches and players to write on screen over various applications for review and discussion.

Accept list: N/A

# Steam

Category: Utility

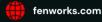
Link: https://cdn.akamai.steamstatic.com/client/installer/SteamSetup.exe

**Explanation:** Hub for several competitive titles such as Rocket League, Marvel Rivals, Apex Legends, Smite, and Counter-Strike: Global Offensive that allows them to be downloaded and played.

HTTP	TCP port 80	
HTTPS	443	
UDP	27015 through 27030 4380	
ТСР	27015 through 27030	
UDP	27000 to 27015	inclusive (Game client traffic)
UDP	27015 to 27030	inclusive (Typically Matchmaking and HLTV)









UDP	27031 and 27036	(incoming, for In-Home Streaming)
TCP	27036 and 27037	(incoming, for In-Home Streaming)
TCP	27015	(SRCDS Rcon port)
UDP	3478 4379 4380	(Outbound)
IPV4	45.121.184.0/23 45.121.186.0/23 103.10.124.0/24 103.10.125.0/24 103.28.54.0/23 146.66.152.0/23 146.66.155.0/24 146.66.156.0/23 146.66.158.0/23	Valve Corporation
IPV4	153.254.86.0/24	
IPV4	155.133.224.0/23 155.133.227.0/24 155.133.228.0/23 155.133.230.0/23 155.133.232.0/24 155.133.233.0/24 155.133.234.0/24 155.133.236.0/23 155.133.236.0/23 155.133.239.0/24 155.133.240.0/23 155.133.244.0/24	Valve Corporation







Backbone of High-rech Activities			
	155.133.245.0/24 155.133.246.0/23 155.133.248.0/24 155.133.250.0/24 155.133.250.0/24 155.133.252.0/24 155.133.253.0/24 155.133.254.0/24 155.133.255.0/24 162.254.192.0/24 162.254.194.0/23 162.254.196.0/24 162.254.197.0/24 162.254.199.0/24 162.254.199.0/24 162.254.199.0/24 162.254.199.0/24 185.25.180.0/23 185.25.182.0/24 190.216.121.0/24 190.217.33.0/24 192.69.96.0/23		
IPV4	205.185.194.0/24	Valve Corporation (C04780190)	
IPV4	205.196.6.0/24 208.64.200.0/24 208.64.201.0/24 208.64.202.0/24 208.64.203.0/24 208.78.164.0/23 208.78.166.0/24 208.78.167.0/24	Valve Corporation	







### Nintendo Switch Online

### Having issues with your school's internet filter?

- Try placing your Nintendo Switch™ into a DMZ.
- For the list of Nintendo ports to open (whitelist), follow the steps found in this article.
- Still experiencing issues? Here's some advice for troubleshooting issues related to NAT and/or Peer to Peer Connections

If you still have concerns, try searching Nintendo's Customer Support website.

Link: https://www.nintendo.com/switch/online-service/ Additional Guide: https://kl2techpro.com/how-to-change-nintendo-switchnat-type-for-esports-fortigate/

Explanation: The network service used for Nintendo Switch online multiplayer functionality to download, update, and play club titles such as Super Smash Bros. Ultimate, Rocket League, and Fortnite.

### accept list:

UDP	1-65535	(inclusive)
-----	---------	-------------

# Super Smash Bros. Ultimate

**Explanation:** Nintendo Switch exclusive game that is played both in-person and online in multiple leagues and tournaments including those in Fenworks.

TCP	6667	
	12400	
	28910	
	29900	
	29901	
	29920	









### Minecraft Java Edition:

Category: Game

Link: https://www.minecraft.net/en-us/download

**Explanation**: A video game title played in the competitive league Fenworks alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

#### **Accept List:**

Port:	25565 TCP 2920
Whitelist:	Varsityleague1.scalacube.online Varsityleague2.scalacube.online
	Varsityleague3.scalacube.online

### Marvel Rivals:

Category: Game

Link: <a href="https://store.steampowered.com/app/2767030/Marvel\_Rivals/">https://store.steampowered.com/app/2767030/Marvel\_Rivals/</a>

**Explanation**: A video game title played in Fenworks alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

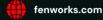
General Troubleshooting Guide for Marvel Rivals: <a href="https://turboboost.gg/article/marvel-rivals-error-common-problems-and-proven-fixes">https://turboboost.gg/article/marvel-rivals-error-common-problems-and-proven-fixes</a>

TCP Ports	3074, 80, 443, 8880-8881,
	9000-9002, 10002-10005,
	10200-10204,
UDP Ports	3074, 3075
IP Whitelist	8.221.58.108
	23.205.110.197
	69.173.151.100





701.248.9786





162.159.130.234 69.173.146.5 162.159.130.234 50.57.31.206 142.250.138.95 38.98.139.68 142.250.114.95 35.221.121.192 142.250.113.95 35.221.121.192 142.250.113.95 34.49.186.238 13.107.5.91 34.36.165.17 104.36.113.34 34.146.213.177 104.18.21.94 34.117.188.166 104.18.14.62 34.117.188.166 34.110.138.217 23.219.160.234 23.219.160.229 23.205.110.212 23.205.110.210 23.205.110.208 23.205.110.204 23.205.110.200





# **Epic Games**

Category: Client

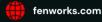
**Link:** <a href="https://launcher-public-service-prod06.ol.epicgames.com/launcher/api/installer/download/EpicGamesLauncher/api/installer.msi">https://launcher-public-service-prod06.ol.epicgames.com/launcher/api/installer/download/EpicGamesLauncher/api/installer.msi</a>

**Explanation:** Client that gives access to the games Rocket League and Fortnite played in Fenworks and several other national tournaments.

IP		epicgames-download1.akamaized.net
		download.epicgames.com
		download2.epicgames.com
		download3.epicgames.com
		download4.epicgames.com
		epicgames.com
		Icdn1.unrealengine.com
		cdn2.unrealengine.com
		Istatic-assets-prod.epicgames.com
		Igraphql.epicgames.com
	6	account-public-service-prod03.ol.epicgames.com
		catalog-public-service-prod06.ol.epicgames.com
		coderedemption-public-service-prod.ol.epicgames.com
		datarouter.ol.epicgames.com
		datastorage-public-service-liveeos.ol.epicgames.com
		ecommerceintegration-public-service-
	(	ecomprod 02. ol. epicgames. com
	(	entitlement-public-service-prod08.ol.epicgames.com
	(	eulatracking-public-service-prod06.ol.epicgames.com
	f	friends-public-service-prod06.ol.epicgames.com
	f	fulfillment-public-service-prod06.ol.epicgames.com
		launcher-public-service-prod06.ol.epicgames.com
		launcher-website-prod07.ol.epicgames.com/
		launcherwaitingroom-public-service-
		prod06.ol.epicgames.com









I
library-service.live.usela.on.epicgames.com lightswitch-public-service-prod06.ol.epicgames.com
notifications-service-prod06.ol.epicgames.com:443
orderprocessor-public-service-
ecomprod01.ol.epicgames.com
persona-public-service-prod06.ol.epicgames.com
priceengine-public-service-
ecomprod01.ol.epicgames.com
xmpp-service-prod.ol.epicgames.com

# **Fortnite**

Category: Game

Link: <a href="https://www.epicgames.com/store/en-US/p/fortnite">https://www.epicgames.com/store/en-US/p/fortnite</a>

**Explanation:** A video game title played in Fenworks alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

ТСР	5222 5795-5847	(inclusive)
UDP	5222 5795-5847	(inclusive)







# Rocket League

Category: Game

Link: https://www.epicgames.com/store/en-US/p/rocket-league

**Explanation**: A video game title played in Fenworks alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

#### accept list:

<u> </u>		
UDP	7000-9000	rocketleague.com
TCP	80 443	rocketleague.com
IP		psyonix-rl.appspot.com rl-cdn.psyonix.com psyonix.com datahound.com c.evidon.com Psy.net rl-cdn.psyonix.com Config.psynet.gg rl-psy.net

## **Bakkes Mod**

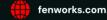
Category: Utility

#### Link:

https://github.com/bakkesmodorg/BakkesModInjectorCpp/releases/latest/download/BakkesModSetup.zip









**Explanation:** Extension to Rocket League that allows players to practice and run drills.

accept list: N/A

# League of Legends

Category: Game

#### Link:

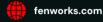
https://signup.na.leagueoflegends.com/en/signup/redownload?page\_referrer =index

**Explanation:** A video game title played in Fenworks alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

ТСР	2099	prod.na2.lol.riotgames.com
ТСР	5222-5223	chat.na2.lol.riotgames.com
UDP	5100-5400	192.64.170.0/24 192.64.171.0/24 192.64.172.0/24 192.64.173.0/24 192.64.174.0/24
ТСР	8088	spectator.na2.lol.riotgames.com
TCP	443	auth.riotgames.com lq.na2.lol.riotgames.com l3cdn.riotgames.com prod.config.patcher.riotgames.com us.edge.rms.si.riotgames.com ekg.riotgames.com acs.leagueoflegends.com entitlements.auth.riotgames.com









		matchhistory.na.leagueoflegends.com plstore.na2.lol.riotgames.com status.leagueoflegends.com store.na2.lol.riotgames.com lolstore-a.akamaihd.net lolesports.com riotgamespatcher-a.akamaihd.net cds.s4a8x2q3.hwcdn.net
TCP	80, 443	clubs.leagueoflegends.com frontpage.na.leagueoflegends.com lolstatic-a.akamaihd.net oembed.leagueoflegends.com am-a.akamaihd.net riot.com playvs.com
IP		player preferences. riotgames. com riot p Ouse 1. vivox. com

# Valorant

Category: Game

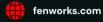
Link: https://playvalorant.com/en-us/

**Explanation:** A video game title played in Fenworks alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

TCP	2099	
	5222-5223	
	8088	
	8393-8400	









UDP	5000-5500	
	8088	

<sup>\*</sup>Kernel level anti-cheat called Riot Vanguard needs to initialize on each system startup\*

# **Apex Legends**

Category: Game

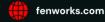
Link: https://store.steampowered.com/app/1172470/Apex\_Legends/

**Explanation:** A video game title played in various state and national tournaments held by high schools, colleges, and national esports organizations.

TCP	1024-1124 3216 9960-9969 18000 18060 18120 27900 28910 29900 27015-27030 27036-27037	
UDP	4380 27000-27031 27036 1024-1124 18000 29900 37000-40000	









# **Smite**

Category: Game

Link: <a href="https://store.steampowered.com/app/386360/SMITE/">https://store.steampowered.com/app/386360/SMITE/</a>

**Explanation:** A video game title played in various state and national tournaments held by high schools, colleges, and national esports organizations.

#### accept list:

UDP	9002-9999	smitegame.com
ТСР	9000, 9001	hirezstudios.com
IP		hirez.net hi-rezgame.net

Counter-Strike: Global Offensive

Category: Game

#### Link:

https://store.steampowered.com/app/730/CounterStrike\_Global\_Offensive/

**Explanation:** A video game title played in various state and national tournaments held by high schools, colleges, and national esports organizations.

ТСР	27015-27030	
	27036-27037	







4380	
27000-27031	
27036	
	27000-27031

# **Faceit Anti-Cheat**

Category: Utility

Link: https://www.faceit.com/en/anti-cheat

**Explanation:** Add on to Counter-Strike: Global Offensive that allows players to participate in the Faceit League and associated tournaments.

accept list: N/A

# **ESEA Client**

Category: Client

Link: <a href="https://play.esea.net/index.php?s=downloads&d=download&id=1">https://play.esea.net/index.php?s=downloads&d=download&id=1</a>

**Explanation:** Client for Counter-Strike: Global Offensive that allows players to participate in the ESEA league and associated tournaments.

accept list: N/A

# Skybox

Category: Utility

Link: <a href="https://landing.skybox.gg/">https://landing.skybox.gg/</a>







**Explanation:** Tool used to upload match recordings and analyze them.

accept list: N/A

# Battle.net

Category: Client

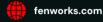
Link: https://www.blizzard.com/apps/battle.net/desktop

Explanation: Client that gives access to the games Overwatch and Hearthstone.

TCP	80 443 1119 1120 3724 4000 6112 6113 6114	
UDP	80 443 1119 3478-3479 5060 5062 6250 12000-64000 1120 3724 4000 6112 6113 6114	









### Overwatch

Category: Game

Link: <a href="https://playoverwatch.com/en-us/">https://playoverwatch.com/en-us/</a>

**Explanation:** A video game title played in Fenworks, and alongside various state and national tournaments held by high schools, colleges, and national esports organizations.

#### accept list:

TCP	1119 3724 6113 80	
UDP	3478-3479 5060 5062 6250 12000-64000	

# Hearthstone

Category: Game

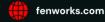
Link: <a href="https://playhearthstone.com/en-us">https://playhearthstone.com/en-us</a>

**Explanation:** A video game title played in various state and national tournaments held by high schools, colleges, and national esports organizations.

ТСР	1119 3724	
UDP	1119 3724	









# **Ubisoft Connect**

Category: Client

Link: https://ubi.li/4vxt9

**Explanation:** Client that gives access to the game Rainbow 6: Siege that is in the SPIN League and several tournaments nationally.

#### accept list:

TCP	80	
	443	
	13000	
	13005	
	13200	
	14000	
	14001	
	14008	
	14020	
	14021	
	14022	
	14023	
	14024	

Rainbow 6: Siege

Category: Game

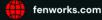
Link: <a href="https://www.ubisoft.com/en-us/game/rainbow-six/siege/buy">https://www.ubisoft.com/en-us/game/rainbow-six/siege/buy</a>

**Explanation:** A video game title played in various state and national tournaments held by high schools, colleges, and national esports organizations.











TCP	80	
	443	
	13000	
	13005	
	13200	
	14000	
	14001	
	14008	
	14020	
	14021	
	14022	
	14023	
	14024	
UDP	6015	

# **Xbox Live**

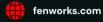
Link: https://www.xbox.com/en-US/live

**Explanation:** The network used for online multiplayer functionality for Windows Store & Xbox titles. Necessary for titles like Forza, Rainbow 6, and Rocket League (if the latter 2 are played on Xbox).

ТСР	53 80 3074	
UDP	53 88 500 307 3544 4500	









## Resources

- https://drive.google.com/file/d/13ILVukI8W0CNGVzbGwR1wqXW3tPk8yX/view
- https://playvs.zendesk.com/hc/en-us/articles/360026688853-Hardware-Network-Specifications-Inclusion-lists-#h\_01EZRR51K1GSGAXRCZ5DRQXMDC
- https://help.highschoolesportsleague.com/hc/enus/articles/360024326931-Ports-Services-to-Open
- https://us.forums.blizzard.com/en/sc2/t/how-to-put-in-ports-numberfor-blizzard-games/7533
- https://en-americassupport.nintendo.com/app/answers/detail/a\_id/22272/~/how-to-set-upa-routers-port-forwarding-for-a-nintendo-switch-console





