

Appendix II– webserver requirements

Web server requirements for installing the Athletics OS package

(Last update: 01/06/2026)

In order to host the AOS web app in your school, a separate web application server is needed with the configuration listed below:

(1) Option A

Schools can make use of a **spare** (being put aside recently in the store room) **computer** or **a notebook with better performance** to act as a web server. (Note: For long term usage, purchasing a new mini-computer with Win11-64 bit OS , i3 or i5 CPU, 16GB RAM and 256GB SSD will be a better arrangement too). Depending on which OS school wishes to install, school may need a **workable** minimum 8-16 GB RAM plus 256GB hard-disk free space computer **compatible** to install **Windows 11 – 64 bit OS** (home or professional version), or a 8GB RAM plus 256GB hard-disk free space computer to install **Linux Ubuntu26.04 LTS** server version.

- (a) If school prefers to install Windows OS, please install the clean Windows 11 OS first, then install a remote control program (e.g. like **RustDesk, DeskIn, AnyDesk, etc**) in it so that our support staff can remotely install the Apache, PHP, Mysql web server and the AOS server package for you.
- (b) If school prefers to install the Linux OS, our support staff will come to take away the desktop or the notebook and install everything for you and return it to School for further processing.

(2) Option B using Virtual Machines

School can use **Windows Hyper-V, VMware Workstation Pro or Oracle Virtual Box** to setup a **Windows 11 Home/Professional 64-bit OS virtual machine** : Install a remote desktop control program onto this Windows VM to allow access by our support staff so that he can help to install Windows LAMP server and the AOS remotely (we suggest to install a remote control program e.g. like **RustDesk, DeskIn, AnyDesk, etc** for this purpose)

(3) Option C (alternative choice for Linux server)

- (a) School can use **Windows Hyper-V, VMware Workstation Pro or Oracle Virtual Box** to install the AOS package by importing our pre-built VM image into the school server.
- (b) Please contact our support staff to help install it.

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Last job to be done

Whichever option A, B or C is chosen, your school I.T. technician needs to help configure the new server's final settings.

Depending on which mode the school may prefer:

- (a) School may worry about the **server security**, then there is nothing to follow-up at this point and the complete program will run under an **Intranet environment** within your school campus, and it will also run under a **closed Intranet environment** in the sports stadium by **connecting the notebook server with several Mesh routers onsite**. There is no **Internet access** by the public outside the sports ground, so security is guaranteed. (However, using this mode may forfeit some advanced AOS functions)
- (b) **(Best option)** School might wish to **allow the server be accessible via the Internet**, then school needs to configure the school router and firewall to allow the server local I.P. to connect to the internet by performing the school firewall settings, port forwarding process and sub-domain creation in the DNS server. (Note: School should consider installing a website **SSL certificate** also for security reasons.)

Final Test

After the AOS app is fully tested as working properly, our support staff will inform the school to take the program usage test by its potential users.