

The following is a compilation of the questions and answers from the webinar “AnyLogic Private Cloud – Enabling Simulation Deployment at Enterprise Scale”.

Please note: as the first question addresses, the terms “Cloud” and “Model Manager” are used interchangeably.

General Questions

Q1. What’s the difference between the “AnyLogic Cloud” and “Model Manager”?

- The Model Manager *is* the AnyLogic Cloud; it’s another name for it and is more descriptive and accurate for what the software provides, as it doesn’t have to be necessarily hosted on a Cloud platform (e.g., on your company’s intranet).

Q2. What edition of the Cloud – Lite, Professional, or Enterprise – did this presentation cover?

- Some features in this webinar are limited to the Professional and/or Enterprise editions of AnyLogic Cloud. You can see a table of edition comparisons here:
<https://anylogic.help/cloud/cloud-options.html>

Q3. Can users be from a company which is external to the Private Cloud?

- That’s entirely up to the owner(s)/administrator(s) of the Private Cloud! Specifically, it’s dependent on where it’s hosted (e.g., private intranet vs public cloud platform), requirements for access (e.g., VPN, indirect links), or user account configuration (e.g., open access vs restricted access protocol, such as LDAP)

Model setup and workflow

Q4. Why would you include the source files when uploading the model?

- One reason would be if you wanted to give other users (with access to your uploaded model) the ability to download the source model, without having to manually share it with them.
- Additionally, because the Model Manager keeps track of, and separates, each upload of the same model, you can use it to keep track of your progress over time.

Q5. Does it matter in which agent(s) all the output variables and charts live, in order to be available for upload to the cloud?

- Yes, similar way to how it works for other experiments, the inputs and outputs you configure in the Run Configuration of your model must be present in the top-level agent (typically “Main”).

Technical considerations

Q6. Where is the data from runs stored? Can they be analyzed and used for ML training?

- Model run data is stored within the various containers that make up the Model Manager's installation. The best and easiest way to access this information is through the platform's interface or its API. Various ways of doing this is demonstrated in the webinar, in the "Model Input/Output" and "API" sections.
- After retrieving this data in whichever way is most relevant, you can then transform it in whichever way is most relevant to your use case – whether it's ML training, visualization dashboards, etc.

Q7. Can I scale server resources to be able to run more models in parallel across concurrent users?

- Yes – with the Enterprise edition of Private Cloud, you can scale the installation on one or more servers for higher performance.

Q8. What access is possible via the Model Manager's API?

- Subscribers to the Public Cloud and all users of a Private Cloud have access to the API. When you use one of the available libraries, you'll authenticate yourself using an API key accessible on your Cloud account's user page. This will allow you to query the results of, or run new experiments for, any model that is owned by your account or ones shared by someone else where they set your access to "Developer".

Q9. Can the API be accessed in other workflows that are not Cloud based? (e.g., used for integration in larger simulation frameworks)

- Yes, you can call the API from any context. This could be from a local Python script, from inside another model (via the Java API), or even from a custom mobile-app!

Q10. Is it possible to feed inputs from a custom website to a model in the Cloud and show the outputs interactively on the webpage?

- Yes, you can see small-scale examples of this from the "API usage examples" section of the Cloud API document here: <https://cloud.anylogic.com/files/api-8.5.0/docs/index.html#3-js-api-usage-examples>
- Additionally, there's a more complex example that can be seen here: <https://cloud.anylogic.com/custom-ui-demo/index.html>

Q11. Is there any cloud access for model development? (i.e., as opposed to developing on a local software)

- Model development is currently exclusive to the desktop software, but our developers are working on incorporating this in the next major release of AnyLogic.

For more information or a customized demo pertaining to your specific use-case, please reach out to the most relevant source at the following page, and we will get back to you shortly:

<https://www.anylogic.com/company/contact-us/>