

# Indexed Point Cloud (Processed)

An **Indexed Point Cloud** is a spatially-processed version of a raw Point Cloud entity. By applying the project's spatial index, this format enables fast visualization, filtering, and integration with other spatial datasets in VoxelSpace.

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## Creating an Indexed Point Cloud

1. Navigate to the **Catalog** section of your project.
2. Click the **"Add Object"** button and select **"Indexed Points"** from the dropdown menu.

image.png

3. Complete the required fields:

Field	Description
<b>Item Name</b>	A clear, descriptive name for the new Indexed Point Cloud entity.
<b>Source Mesh</b>	Select a raw <b>Point Cloud</b> from the list. This will serve as the input for the indexing process.

## Indexing the Point Cloud

- After selecting your source and providing a name, click **"Create"** to initiate the indexing process.
  - You can monitor the progress in the project's **"Pending"** section.
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## Viewing the Indexed Point Cloud

Once processing is complete:

- Use the **"View"** button next to the Indexed Point Cloud in the Catalog to open and explore it.

- Alternatively, you can create a **View entity** and designate the Indexed Point Cloud as its data source for broader analysis and visualization.
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