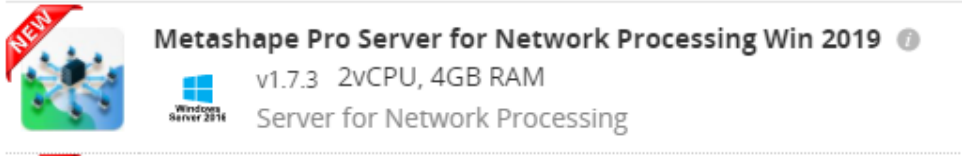
July 19, 2021

1. Run Metashape Pro Server

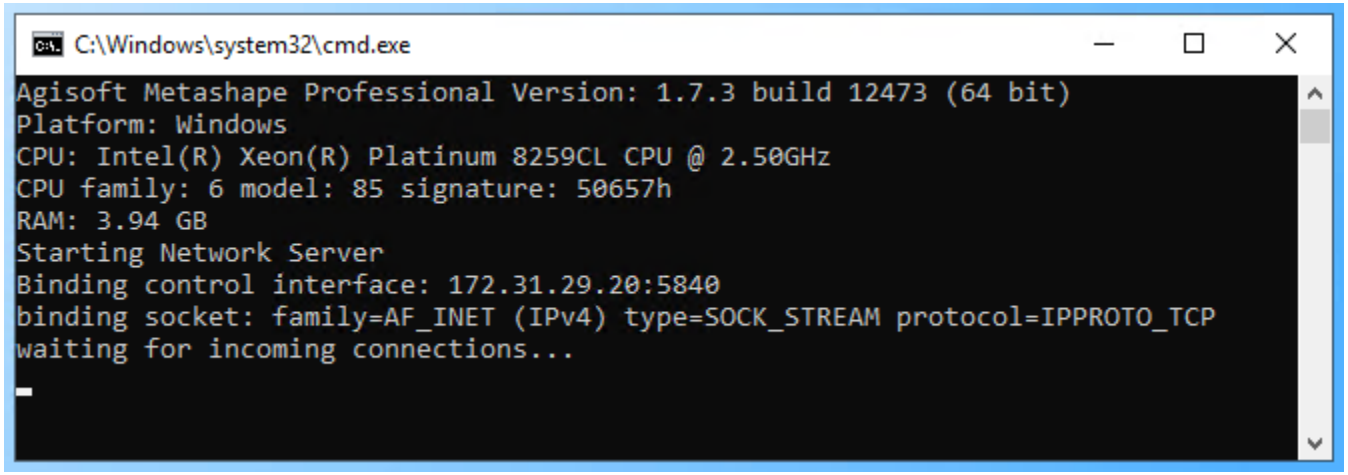
1.1 Select and start Metashape Pro Server for Network Processing



1.2 After connecting to the application through RDP, the Command Prompt (CMD) starts automatically.

1.3 The Command Prompt (CMD) will automatically execute the following command:
"c:\program files\agisoft\metashape pro\metashape.exe" --server --control Private IP Address --dispatch Private IP Address

1.4 Wait until the next message appears

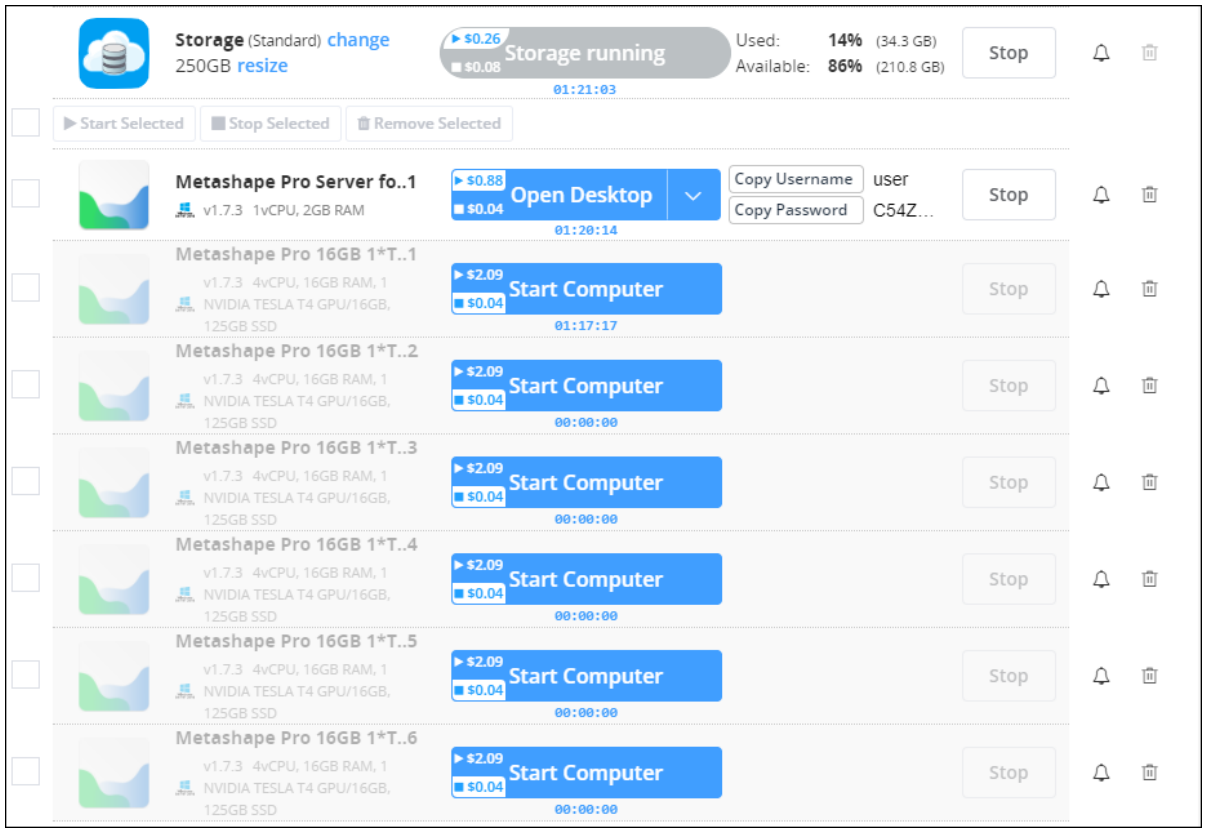


1.5 The network communication folder **X:\Metashape_Network_Dir** automatically created on storage X:

1.6 Leave CMD window open.

2. Run Metashape Pro computers for processing (NODES)

2.1 Choose several Metashape Pro for Network Processing. You can choose different Metashape configurations.

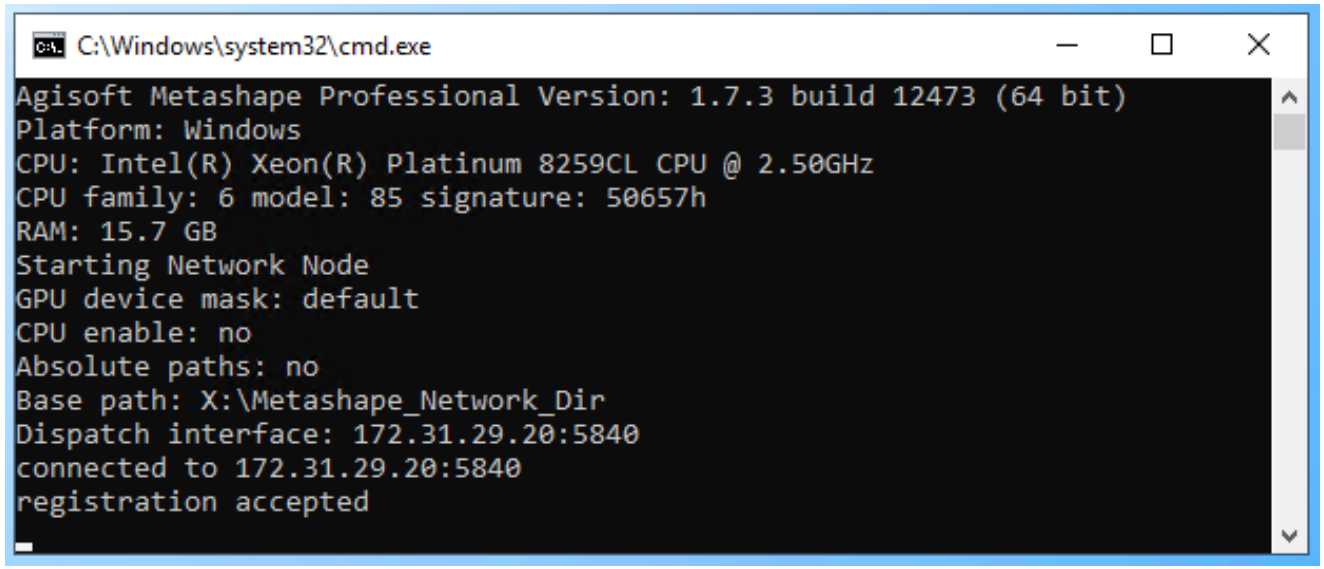


2.2 Start one Metashape App

2.3 The Command Prompt (CMD) will automatically execute the following command:

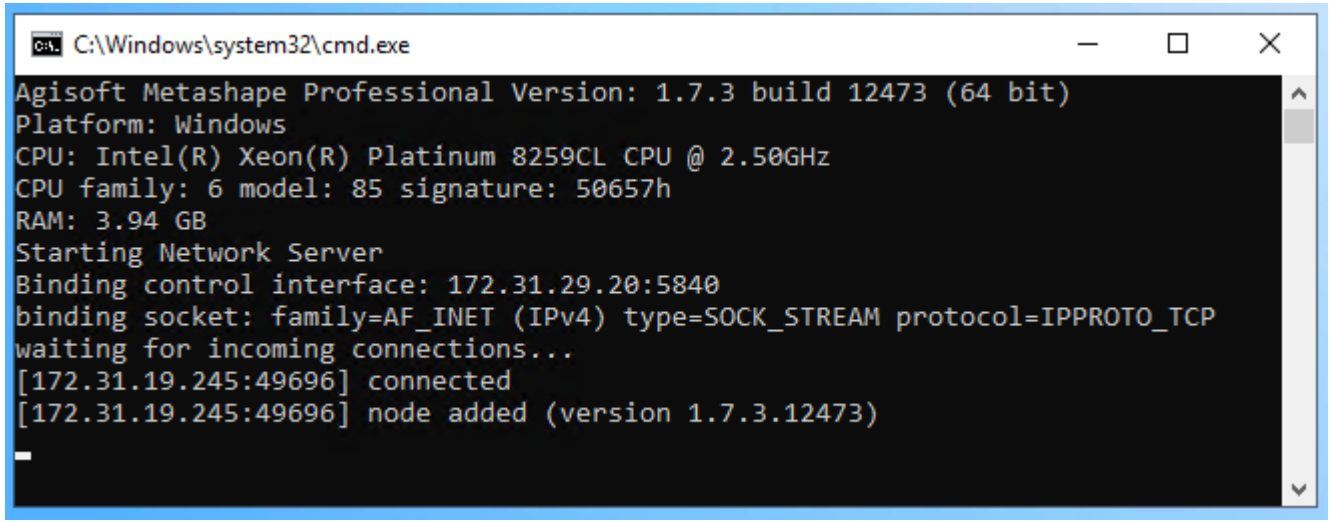
"c:\program files\agisoft\metashape pro\metashape.exe" --node --host **Private IP Address** --root **X:\Metashape_Network_Dir**

You will see the following information in CMD window



Don’t close the CMD window and don’t start Metashape Pro program !!!

At the CMD window of Metashape Pro Network Server you will see:

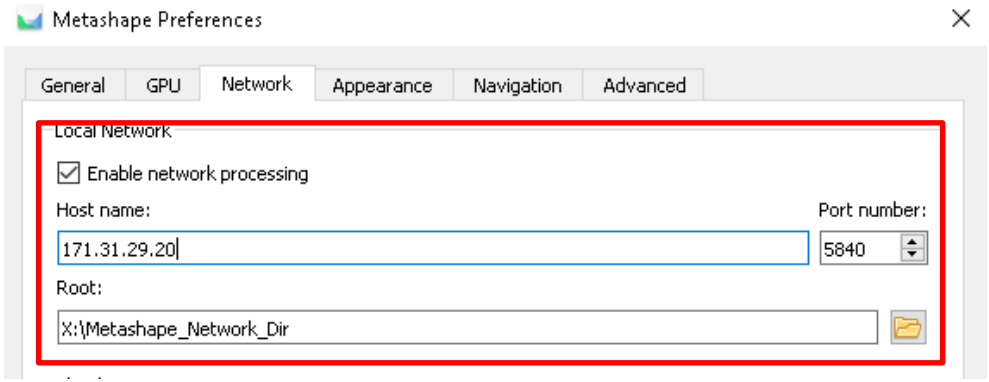


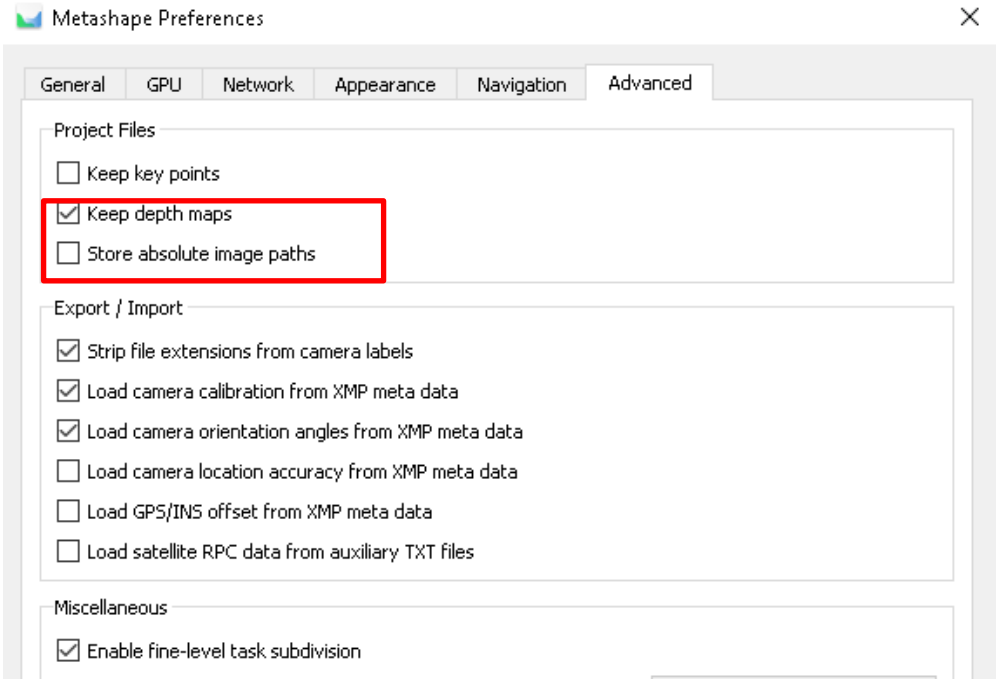
2.4 You can minimize the RDP window of this App or even close it. We recommend that the first NODE (RDP window) remains open for further work as a CLIENT, and all other NODES (RDP windows) can be closed.
2.5 Repeat 2.2 - 2.4 for every Metashape App (NODE) you want to use in the Network.

3. Define Metashape Pro as CLIENT and run a project

3.1 Start Metashape program in one of the above selected Metashape Apps. This Metashape will serve as a CLIENT.
3.2 In the bottom-right corner of the GUI window on CLIENT you will see "connected to server" icon.
3.3 Create a new project and save it in PSX format in the folder X:\Metashape_Network_Dir.
Pay attention! PSZ format is not supported in Network configuration.

3.4 Check out that the following parameters are switched on in **Tools/Reference/Network** and **Tools/Reference/Advanced**





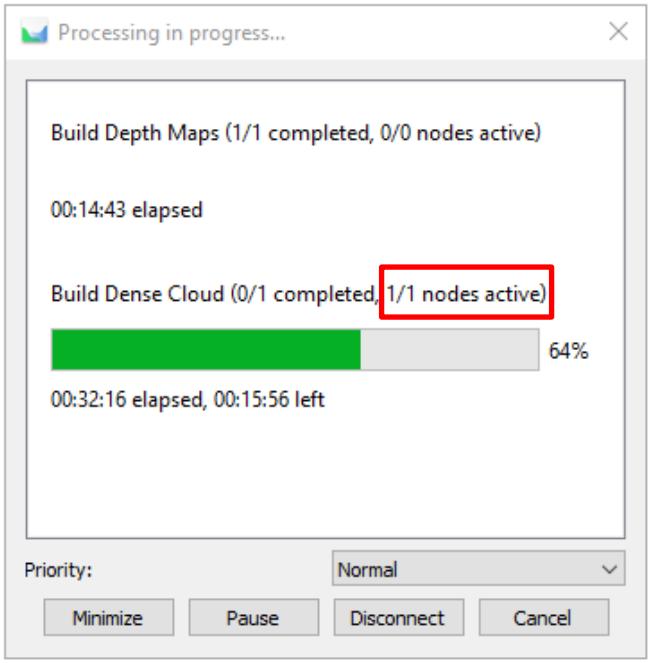
3.5 Run you project on the CLIENT.

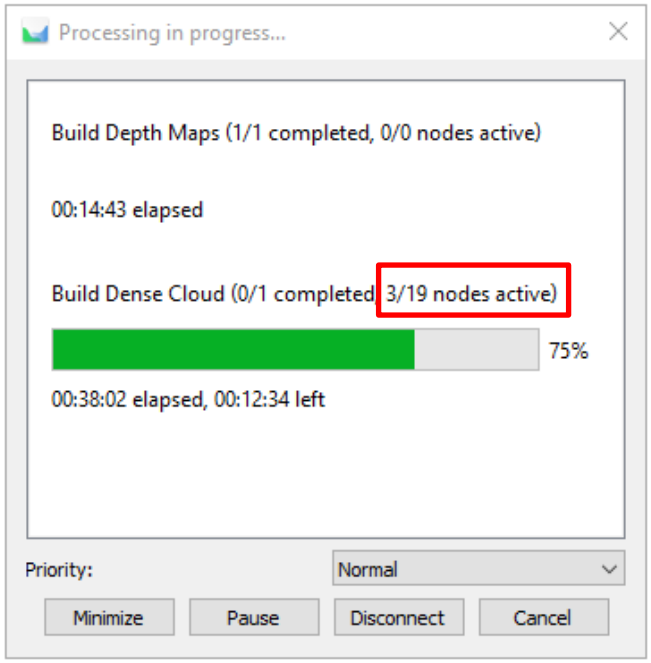
3.6 You can check the connections and monitor the process in the Agisoft Network Monitor program opened in the CLIENT

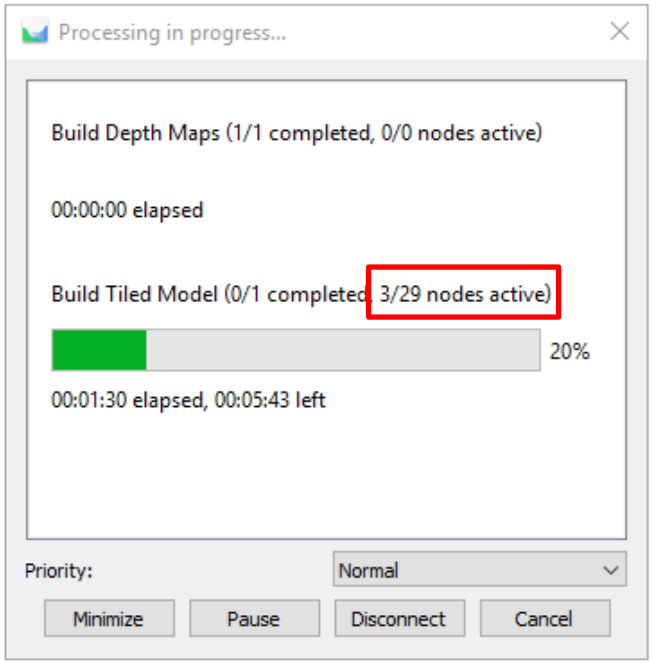
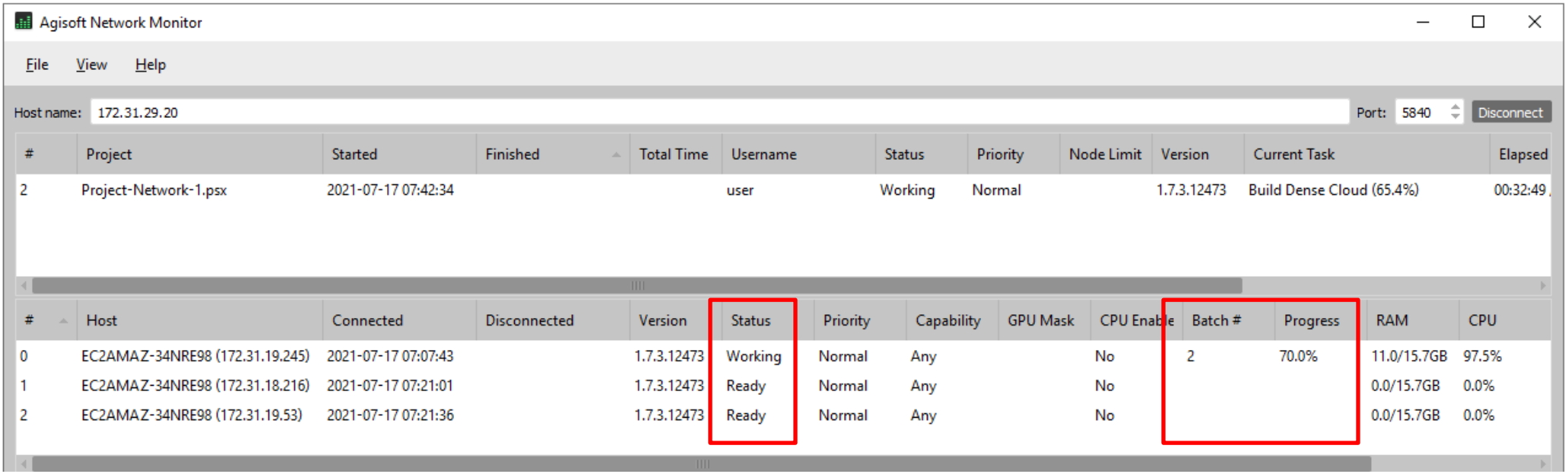
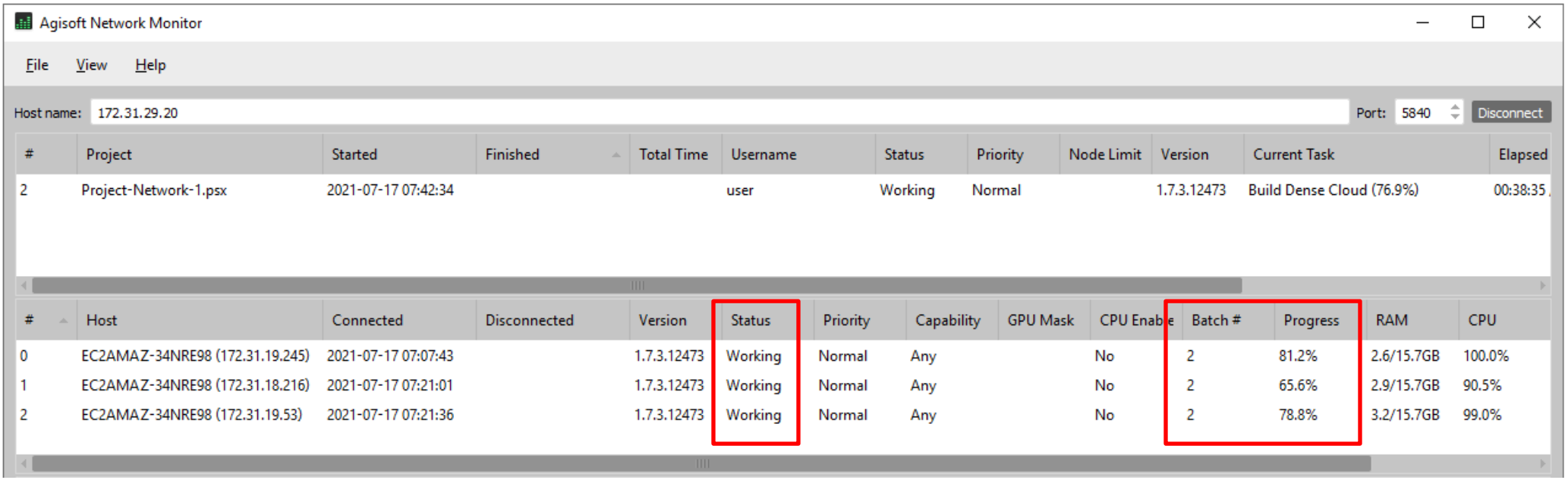
3.7 If you want to run your project using Batch Processing, on the CLIENT select **Workflow/Batch Process**, define the processing stages and parameters, and click OK to run. You'll be asked, if you want to run the processing via network, click OK and the small network processing progress dialog will appear. After that you can press Disconnect on the CLIENT machine and close Metashape GUI. The processing itself will be executed on NODE machines. You can see it via Network Monitor and reading the logs in the terminal both on SERVER and NODE machines.

4. Tips for Network processing

1. Different processes can be processed in parallel on different number of nodes (computers). Even inside the process, some sub-processes can run only on one node, while the others – on several nodes. For examples the 3/29 below means that there are three nodes in the cluster, but this specific stage of processing may be divided to 29 jobs running in parallel in 29 nodes. This information is important for analyzing and planning your cluster configuration for large projects.







2. You can monitor the work of the nodes in Agisoft Network Monitor. It shows all nodes available and what is working at every moment of processing.