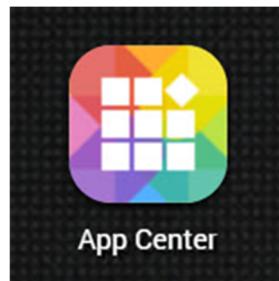


Installing Container Station (Docker) on a QNAP:

(Applicable firmware & models can be found here: https://www.qnap.com/solution/container_station/en/)

We will not actually be installing an app named 'Docker', as QNAP enables container functionality through its app titled 'Container Station'.

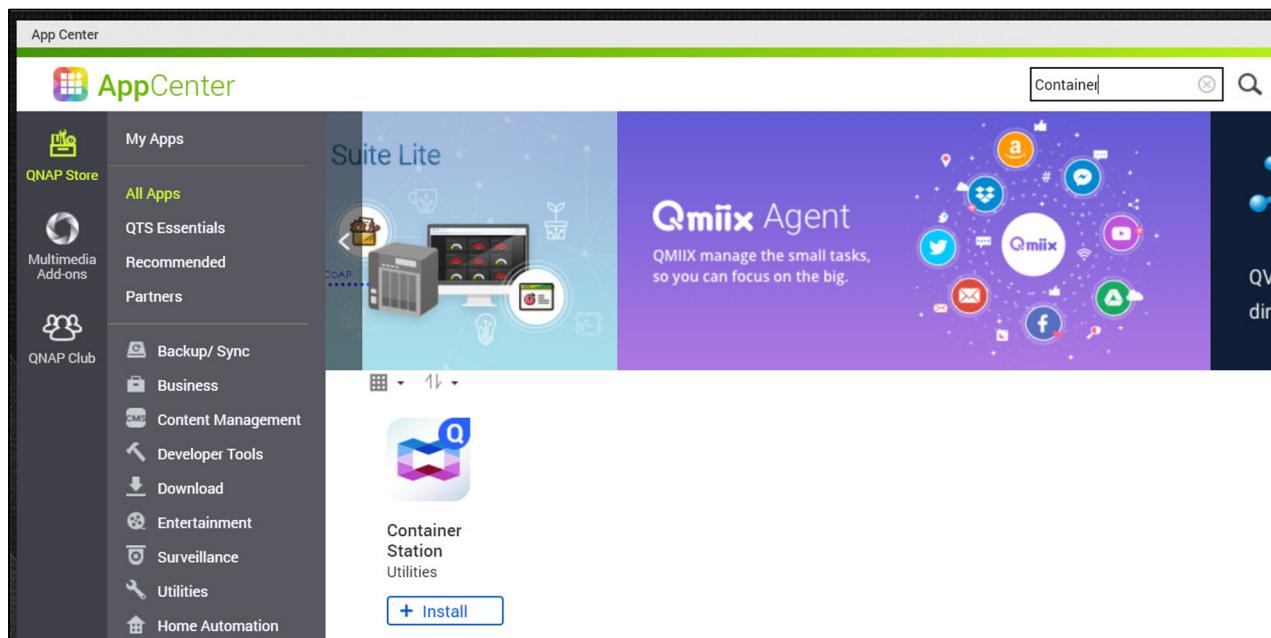
Begin with logging onto the web interface of your QNAP. Once you are logged in, look for the 'App Center' icon (shown below) and open it.



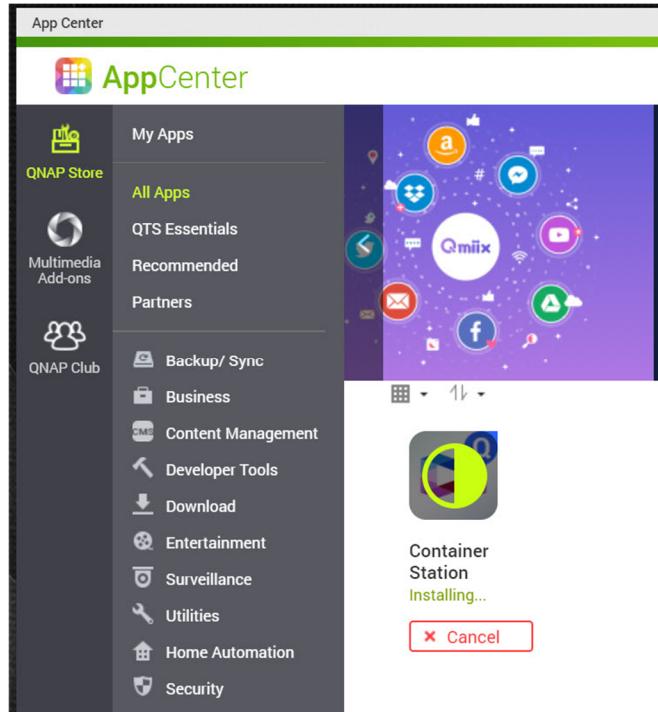
Once you have App Center open, you will want to use the search bar at the top of the window to search for the 'Container Station' app.



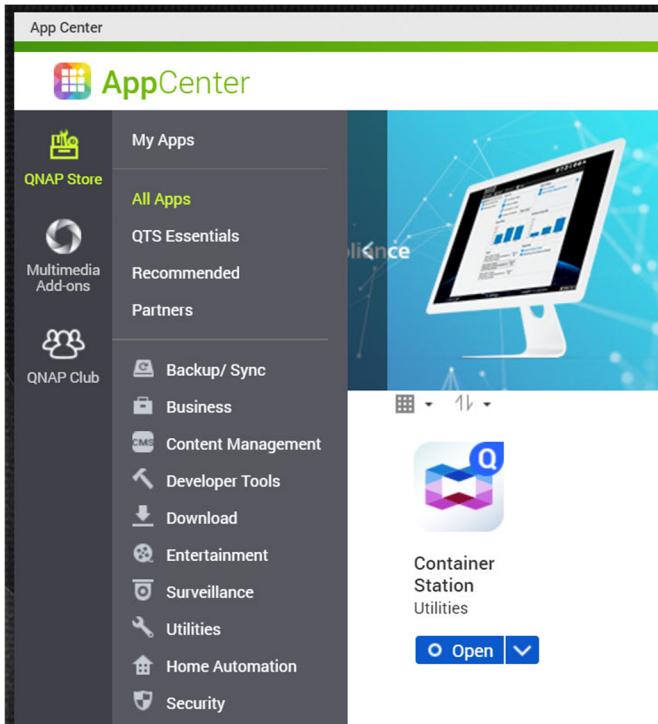
Type 'Container' into the search bar, and you should be presented back with the app to install. (If the app does not appear, you may have a QNAP model or firmware version that is not supported. Please check at the URL at the top of this guide)



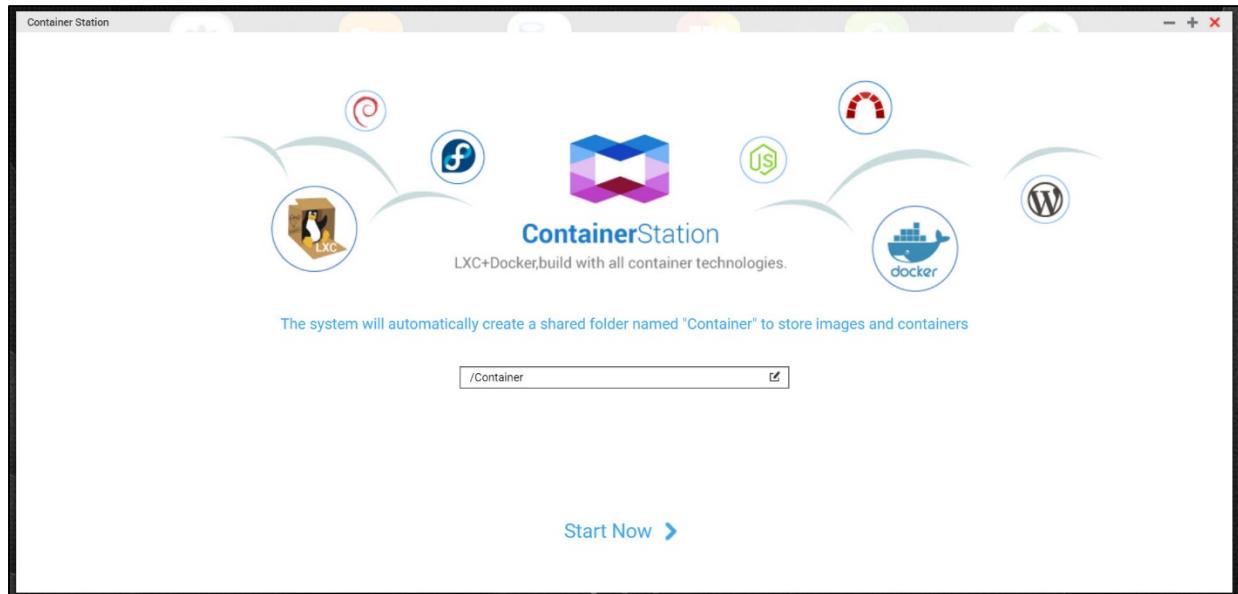
After you click 'Install', the app will begin to download and install, the icon will update with this progress:



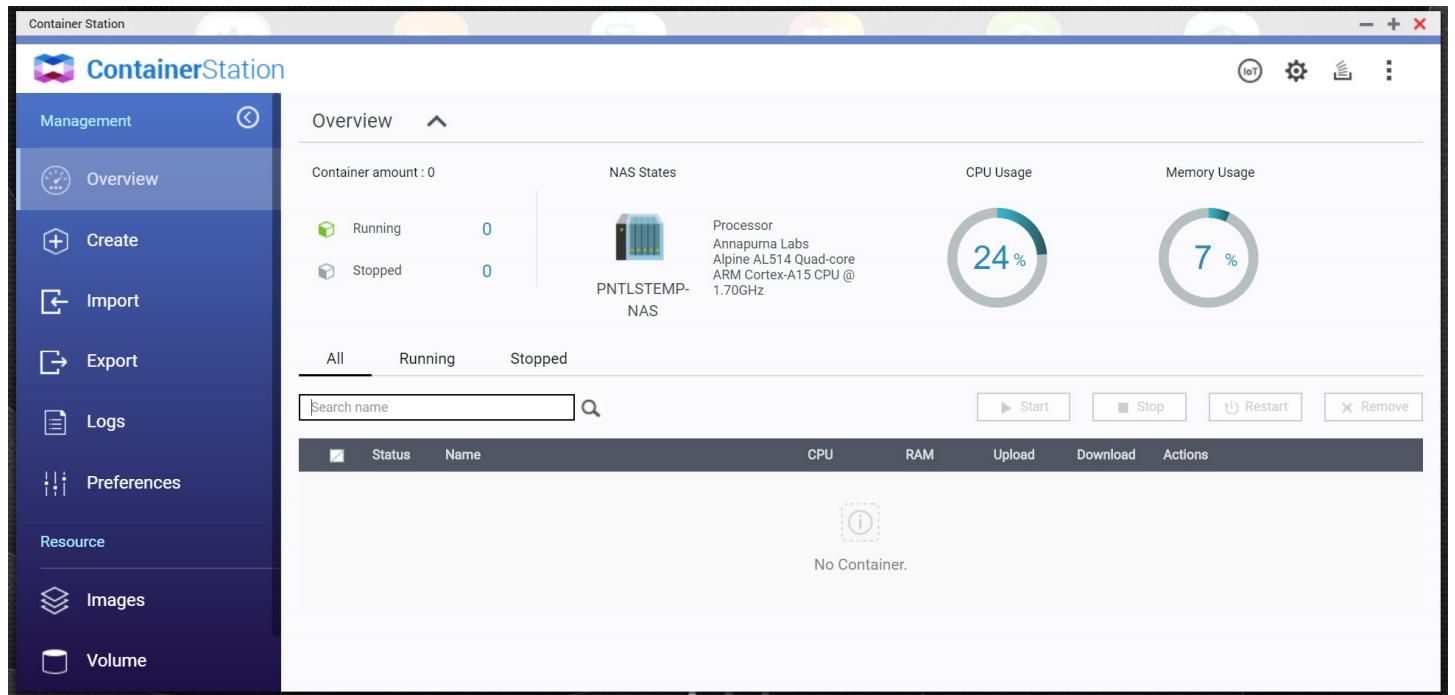
After the app installation has completed, you will see the Container Station icon now has an 'Open' button.



Click the 'Open' button and we will enter the wizard to complete the Container Station setup. Enter the name of a shared folder to be created to store containers and images, then click 'Start Now'.

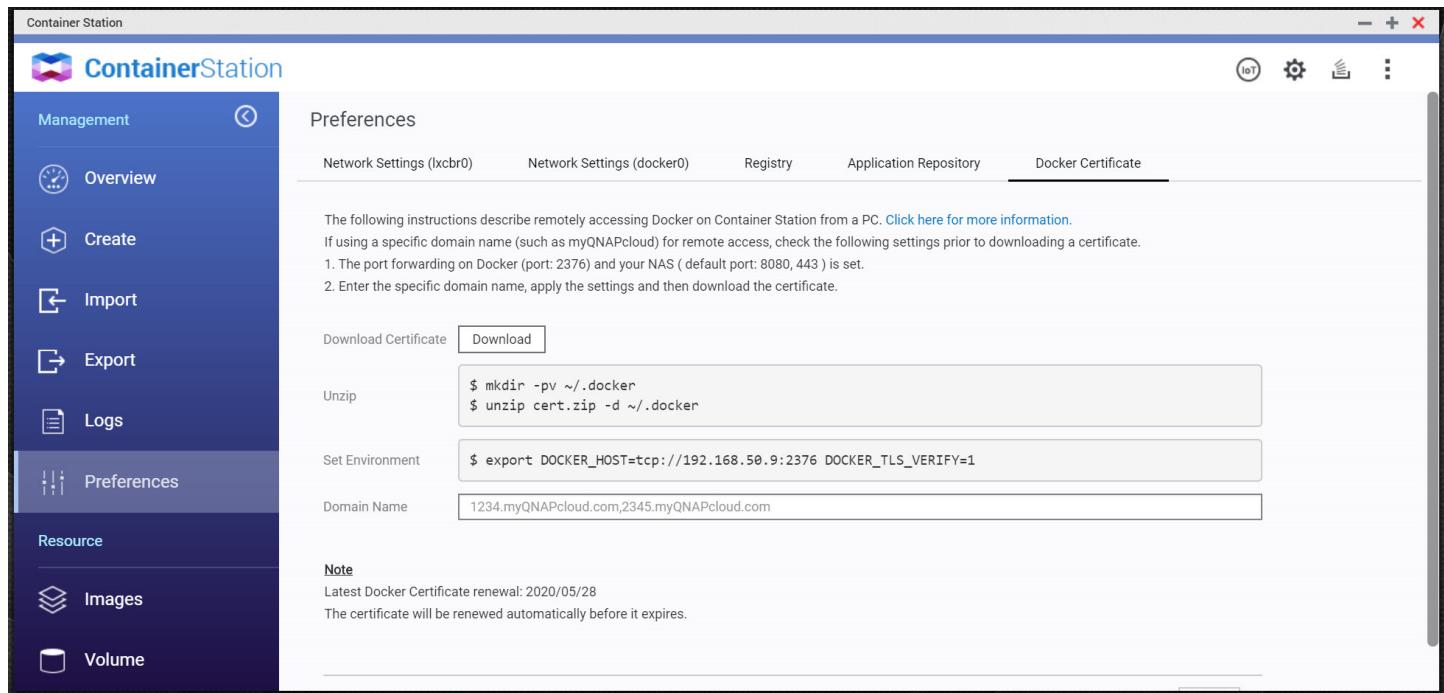


After the wizard has finished the setup, we will see the Container Station app window. You should also be able to connect to your QNAP via SSH at this point to run Docker commands at the command line.



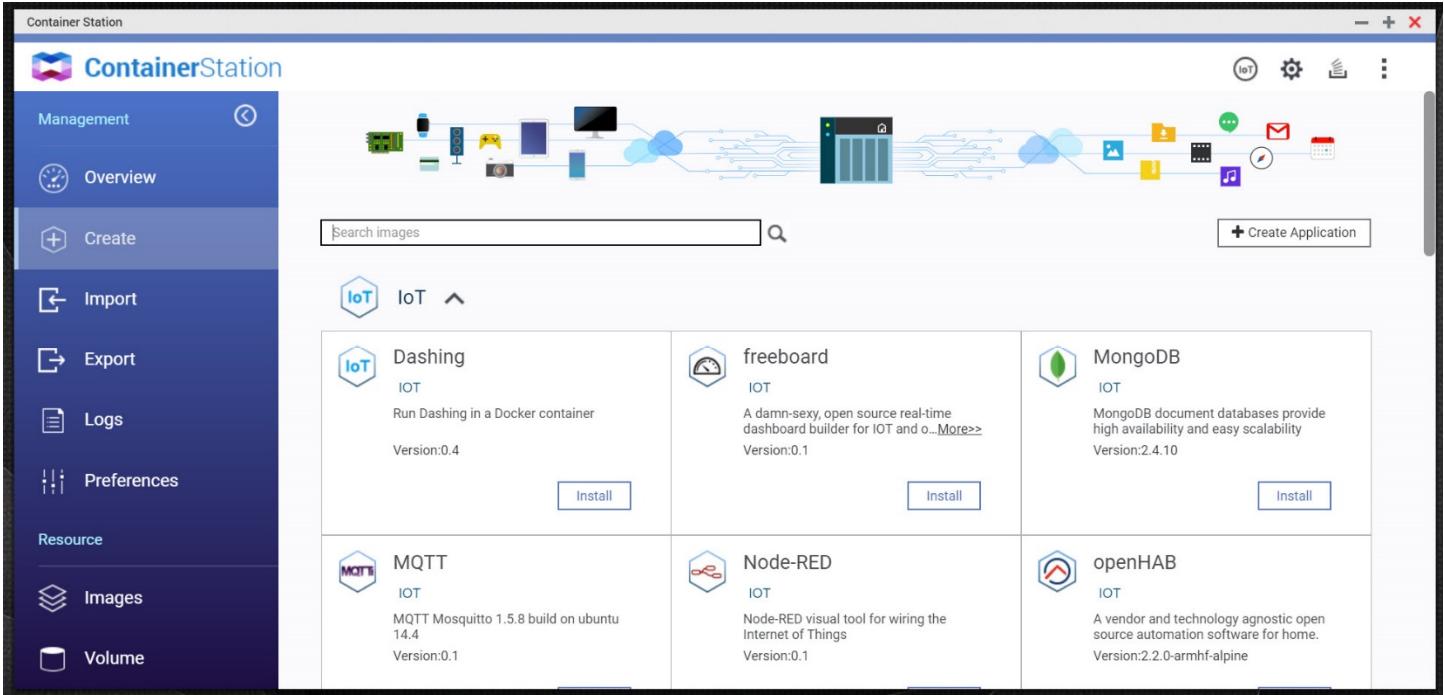
NOTE:

To be able to remotely access Docker on Container Station from a remote system, you will want to follow the instructions given on the 'Docker Certificate' tab which is under the 'Preferences' menu.

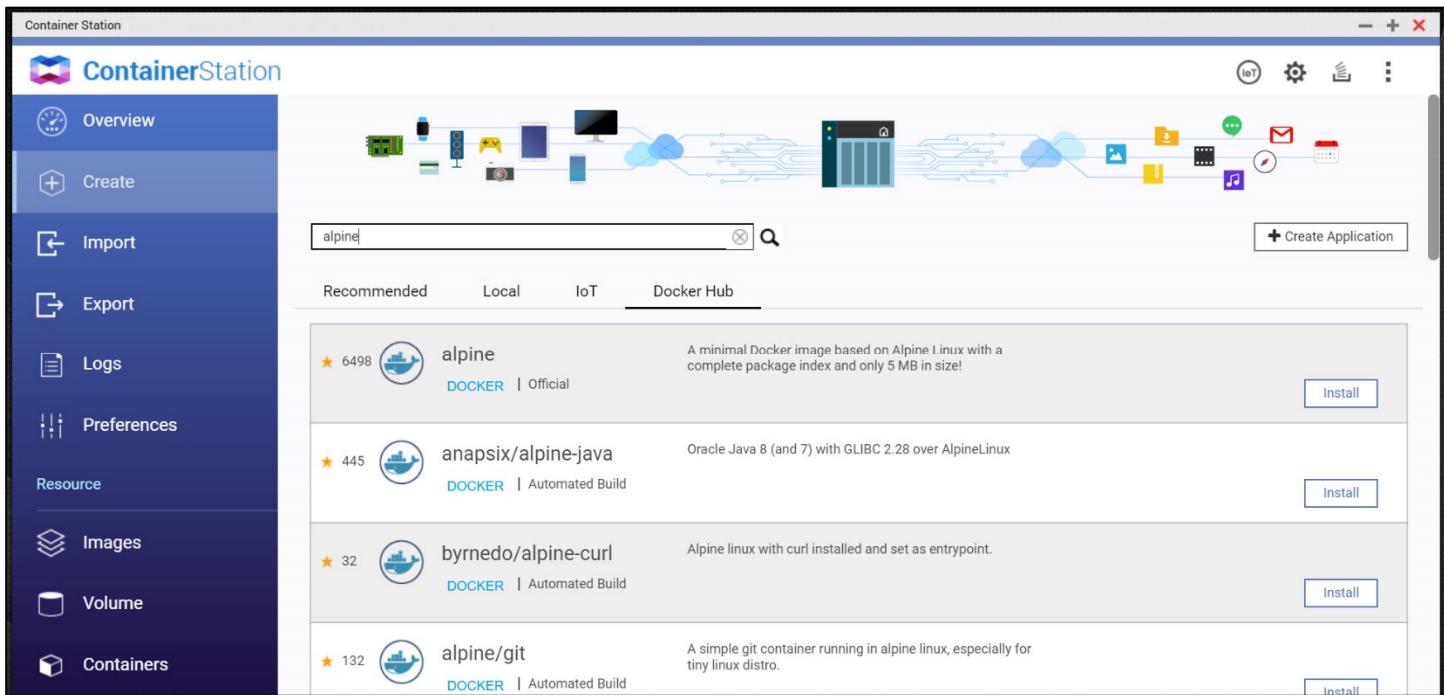


Interactive First Container Setup:

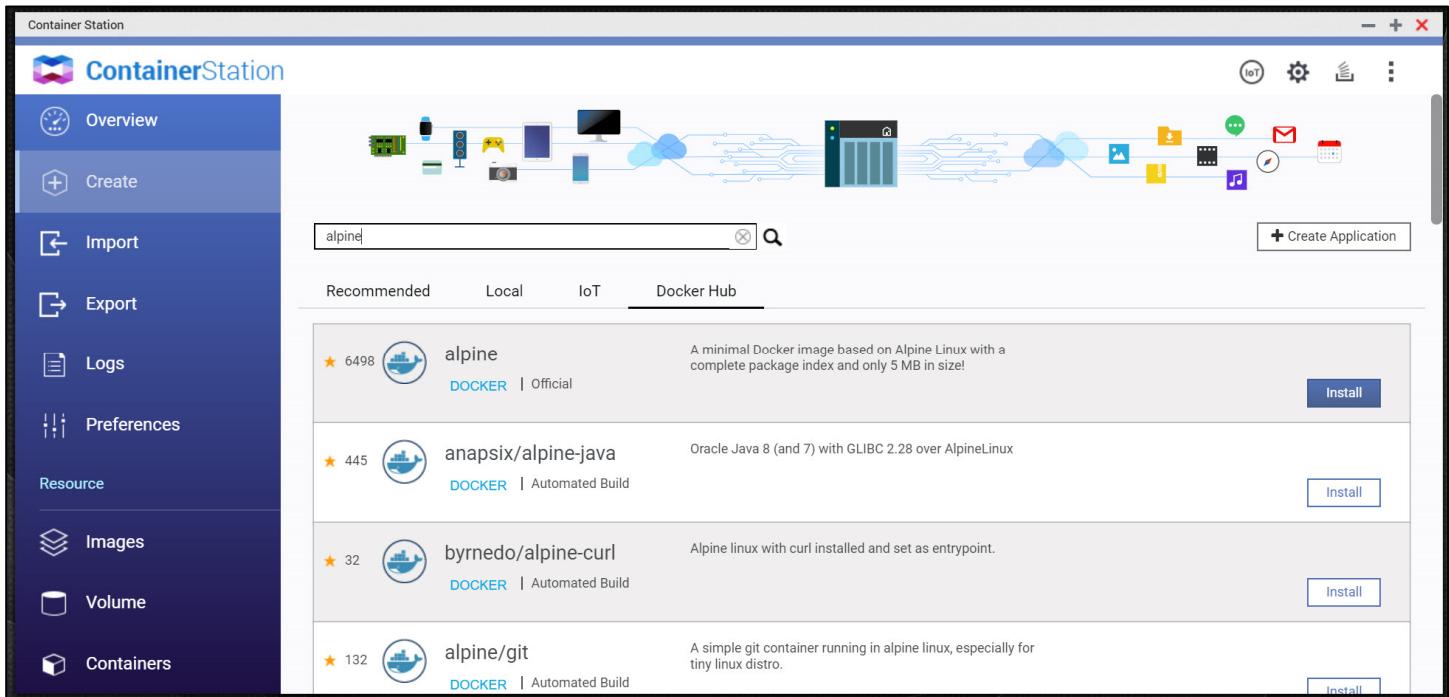
Now that we have Container Station installed, it is time to create our first container. Let's click on the 'Create' button and we will start our first deployment.



Within the search bar, enter 'alpine' to find our easy to use simple Linux container.



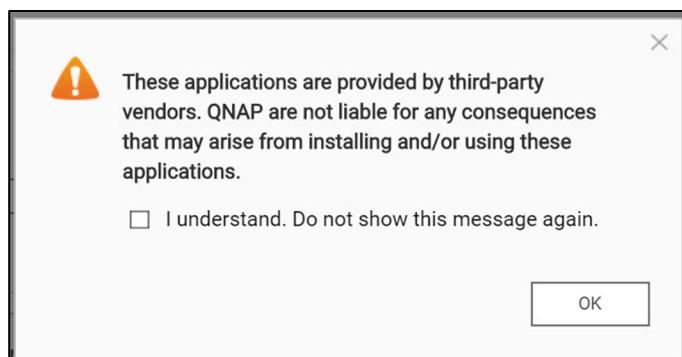
Click on the image to select it, and we can then click the 'Install' to the right to pull down the container image:



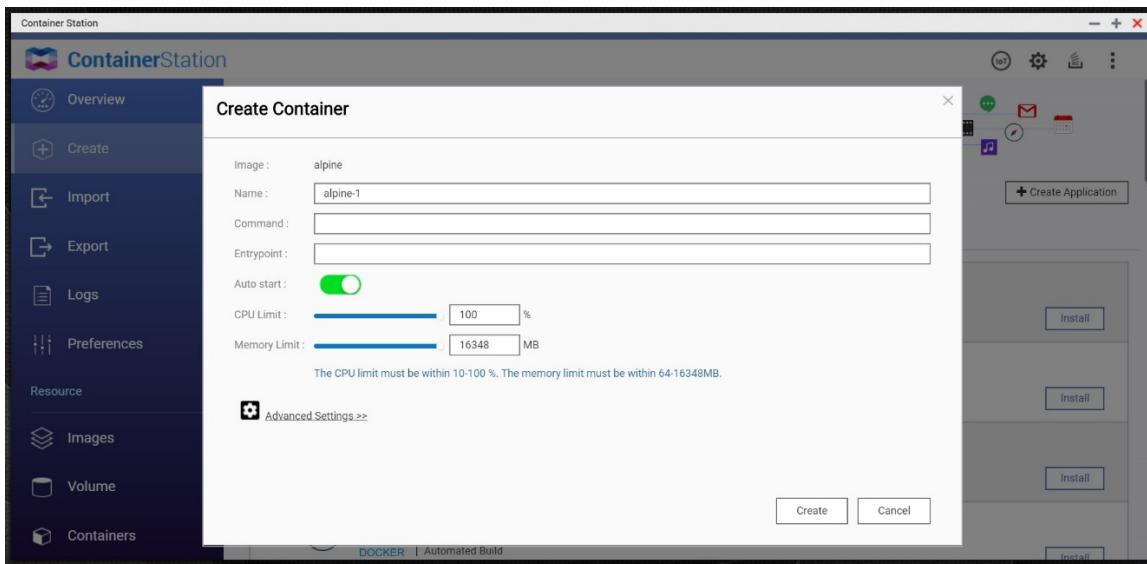
Once we click the 'Install' button, we are prompted to choose a version of the container to pull. Since we have no specific version requirement, we will continue with the default of 'latest' and click 'Next'.



There will be a pop-up to inform you these are third-party applications, click 'OK'.



The 'Create Container' wizard will now launch to let us enter any specific settings for our container. For now, we will keep default settings and no resource limits.



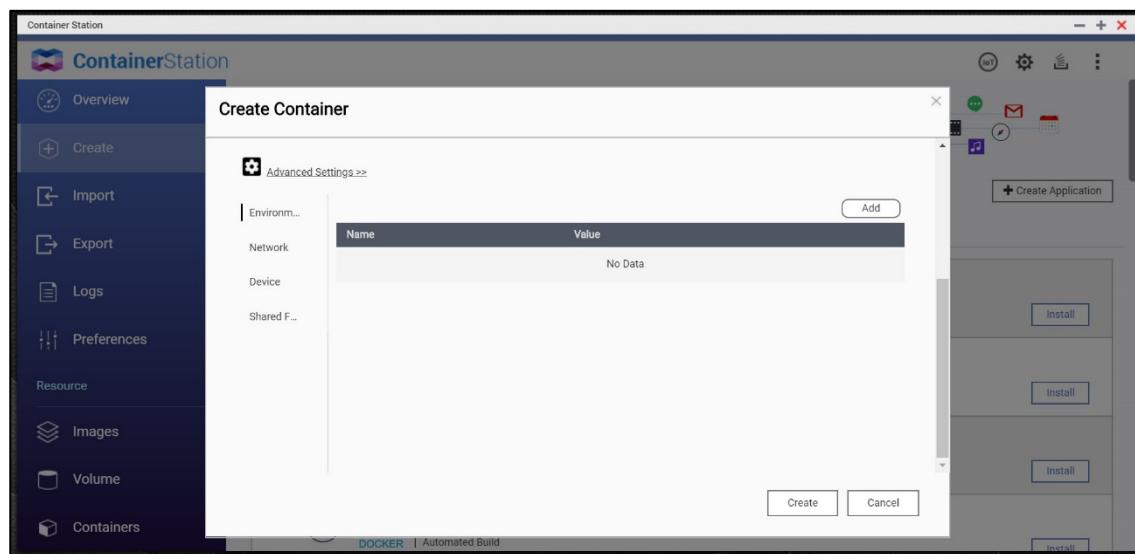
We also have the option to click the 'Advanced Settings' button and we will be presented with additional settings tabs for these additional types of settings:

Environment: Set environment variables

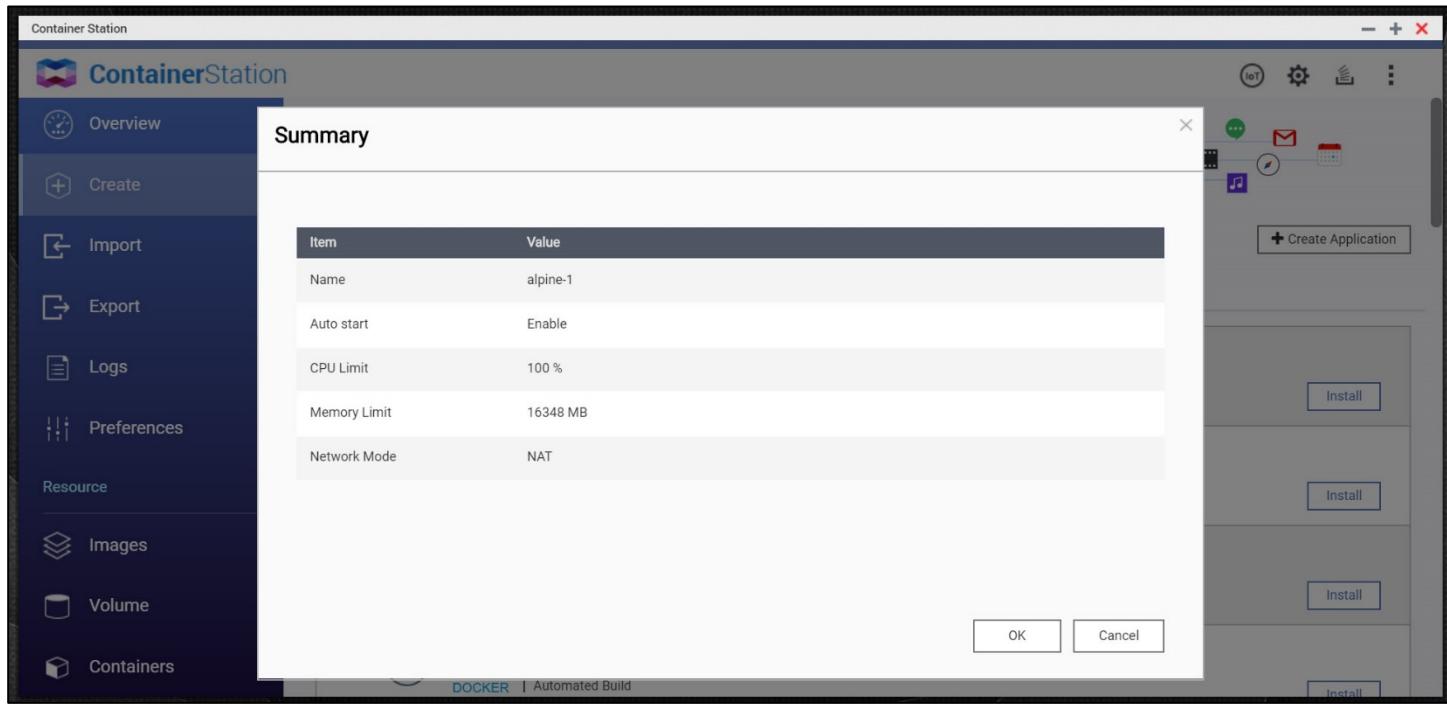
Network: Add network connections for container, plus port forwarding

Device: Add mappings to hardware/input devices

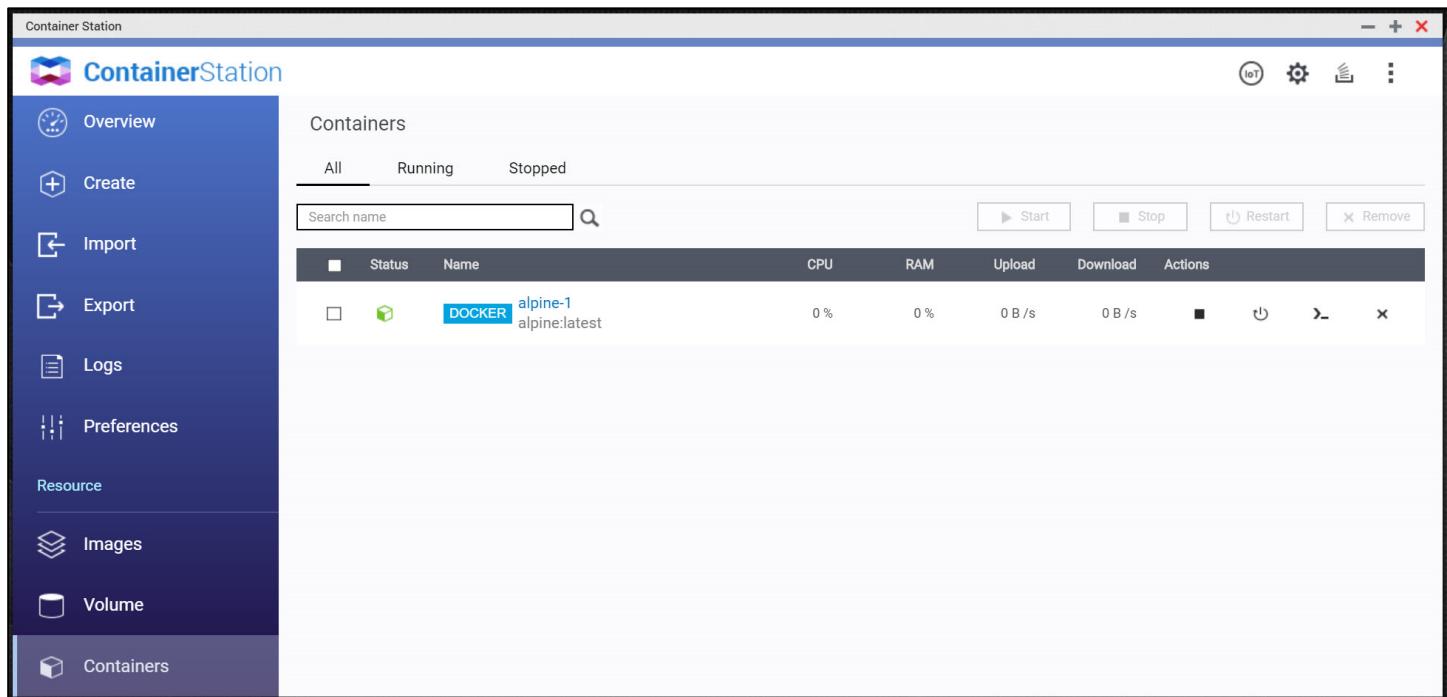
Shared Folders: Add volumes as a mount point (as read only or read/write)



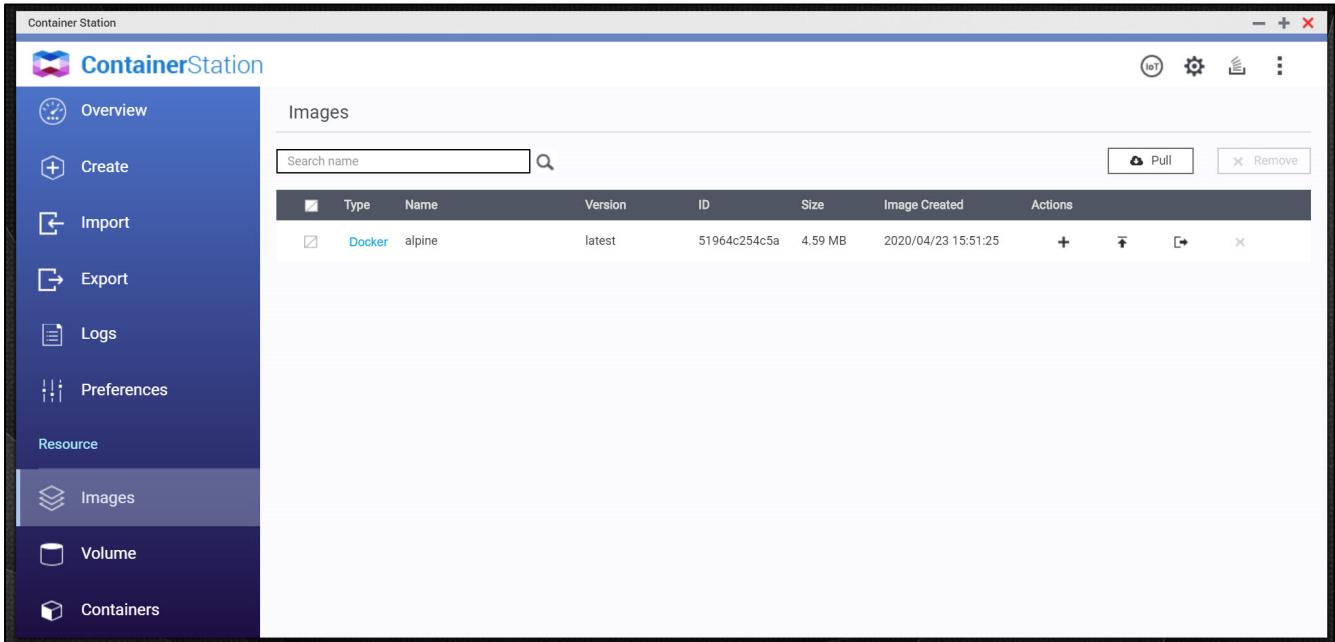
Once we have selected our settings (defaults for this walkthrough), we are presented with the 'Summary' page of the wizard. Click 'OK' to deploy the container.



After the wizard has completed, we will now see our container has been created and is currently running:



If we select the 'Images' tab, we will also see that details about our container image which was downloaded to run:



The screenshot shows the ContainerStation application window. On the left, there is a sidebar with the following options: Overview, Create, Import, Export, Logs, Preferences, Resource, Images (which is selected and highlighted in purple), Volume, and Containers. The main area is titled 'Images' and contains a table with the following data:

Type	Name	Version	ID	Size	Image Created	Actions
Docker	alpine	latest	51964c254c5a	4.59 MB	2020/04/23 15:51:25	+ Remove Import Export

At the top right of the main area, there are icons for IoT, Settings, and Help.

With this, we have completed the installation of Docker on our QNAP, and interactively created our first container. I hope this helps you to get started with Docker & containers.