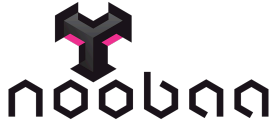


Getting Started Tutorial

Community Edition



Introduction

This document will guide you through NooBaa system setup, and assumes that the user has an existing understanding of NooBaa architecture and functionality. For more information on NooBaa's technology, please contact info@noobaa.com

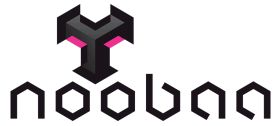
A setup includes the following high level steps:

1. **NooBaa Core deployment** - A virtual machine that includes NooBaa core server with a management console. This virtual machine also includes a default S3 REST gateway.
2. **Daemon installation and distribution** - Daemon software is required for every storage node that takes part in the storage network. This software is available for download from the virtual machine, as well its unique configuration used for authentication.
3. **S3 storage client** - In order to use NooBaa Object Storage, S3 client is required. The S3 client connects to the S3 REST gateway, which by default resides on the virtual machine and allows upload/download objects.

Getting started with NooBaa

Virtual Machine deployment

1. Download and import the downloaded files to ESX
2. Enter the credentials noobaa/PasswOrd as described



```
NooBaa

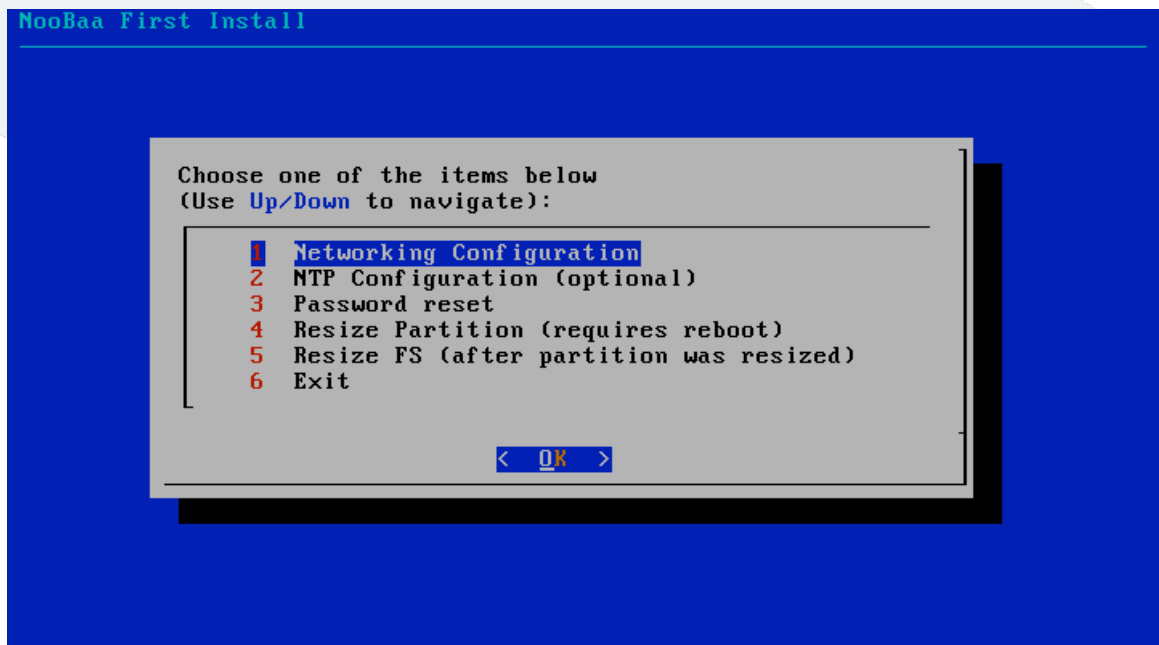
Welcome to your NooBaa server.

Configured IP on this NooBaa Server NONE.

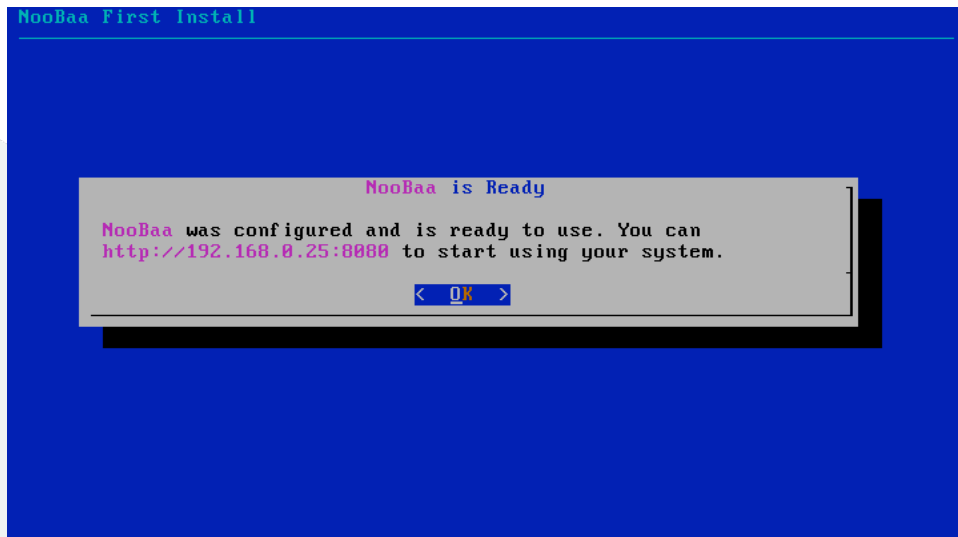
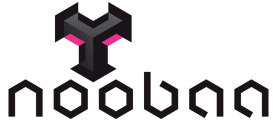
No Server Secret

You can set up a cluster member, configure IP, DNS, GW and Hostname by logging i
n using noobaa/Passw0rd
localhost login: _
```

Follow the wizard steps and setup your network configuration. Use Up/Down keys to navigate.

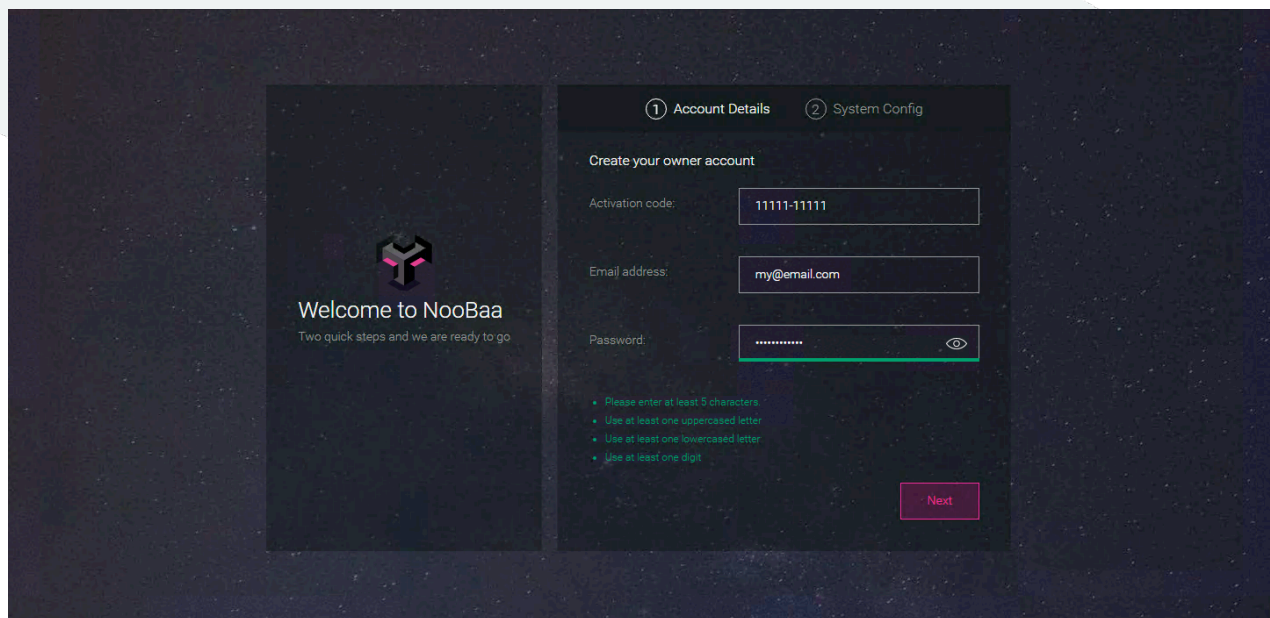


3. When you are done, you will get the management URL <http://YourIP:8080> or <https://YourIP:8443>



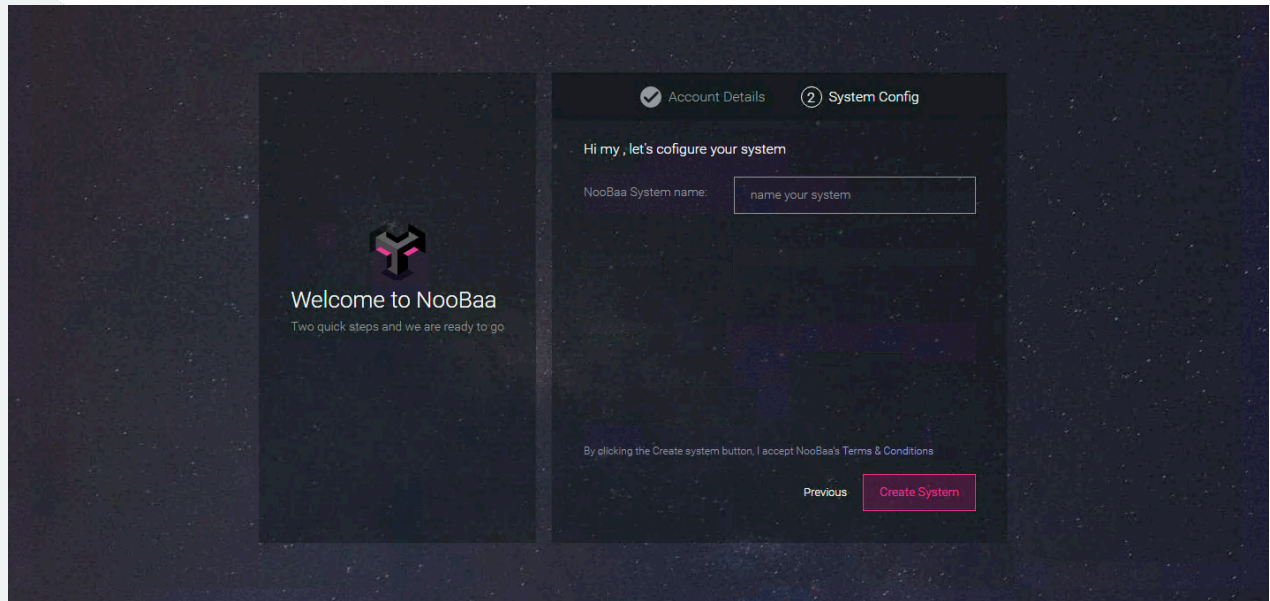
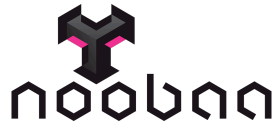
4. Connect to your system via <http://YourIpHere:8080>

By default, you will be required to create a new system

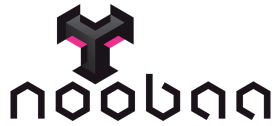


Activation Code - Use the activation code received by email from NooBaa team.

Email address - Used for management user login

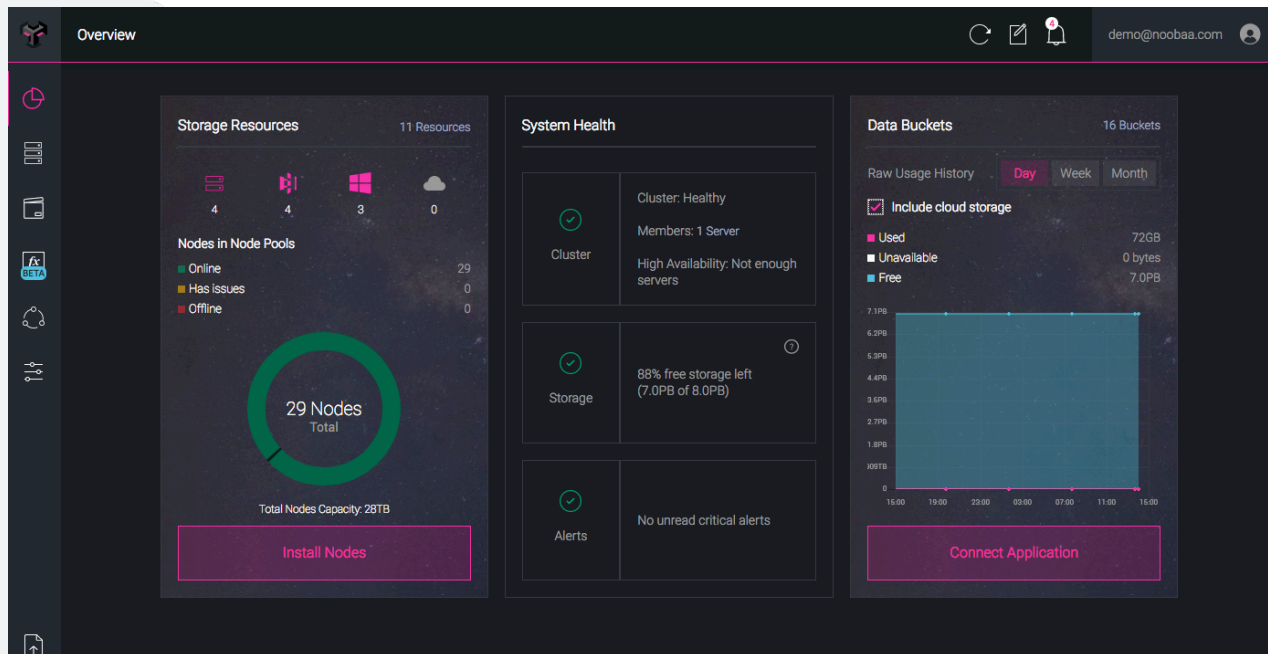


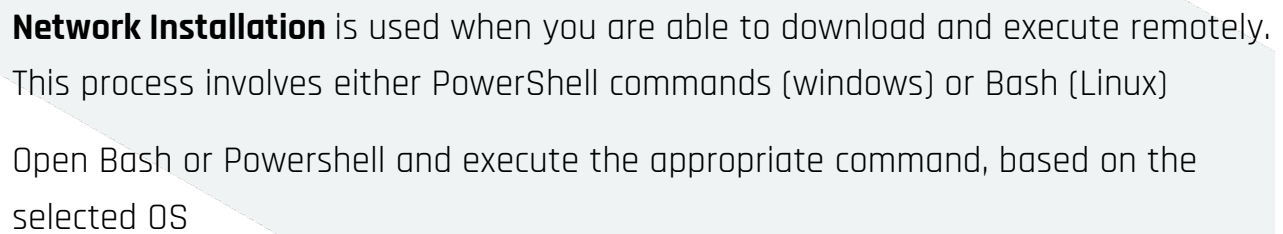
System Name – Used to uniquely identify this system instance

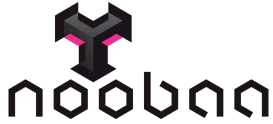


Agent installation and distribution

1. Click on "Install Node" to add a compute node to your system







- That's it! The nodes are now assigned to the **default pool**

Please note that a minimum of 3 nodes is required before you can use the system. Each node must have more than 10GB free space.

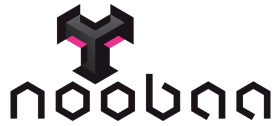
- Navigate to Resources -> default_pool. All the nodes we had just added will appear as "Online"

The screenshot displays the Noobaa web interface for the 'default_pool' resources. The top navigation bar shows 'Resources > default_pool'. The left sidebar contains various icons for navigation. The main content area is divided into several sections:

- Resources:** A summary card showing 'Healthy' status and a table of node counts: Online (10), Has issues (0), Offline (0), totaling 10 Nodes.
- Pool Capacity:** A gauge showing 9.0TB Total capacity. A legend indicates: Currently Available (8.5TB), Unavailable (0 bytes), Used (Noobaa) (17GB), Used (Other) (411GB), and Reserved (100GB).
- No Activities:** A message stating 'Pool is in optimal condition'.
- Nodes:** A table listing 10 online nodes with columns for State, Node Name, IP Address, Used Capacity, Trust Level, and Data Activity. All nodes are in a 'Trusted' state with 'No activity'.

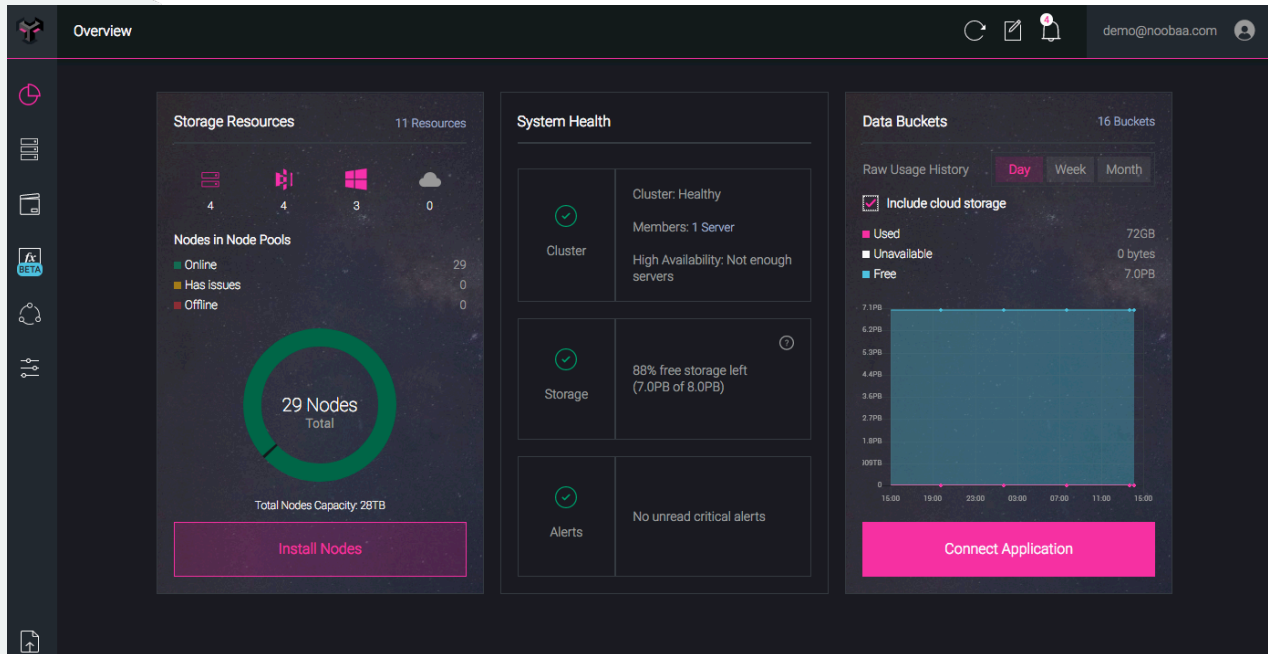
State	Node Name	IP Address	Used Capacity	Trust Level	Data Activity
Online	noobaa-win-1-C-9f0b4c7	10.1.0.87	30GB of 127GB	Trusted	No activity
Online	noobaadLinux02cc0f8-f40bd5fa	10.1.0.183	44GB of 1007GB	Trusted	No activity
Online	noobaadLinux195f08c-27ce7399	10.1.0.180	44GB of 1007GB	Trusted	No activity
Online	noobaadLinux4437b6c-38481744	10.1.0.184	44GB of 1007GB	Trusted	No activity
Online	noobaadLinux457a28d-24e852a7	10.1.0.159	44GB of 1007GB	Trusted	No activity

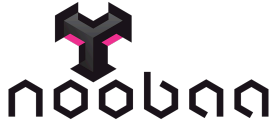
If the nodes do not show up within a few minutes, it is most likely a firewall on the node or between the server and node is preventing communication.



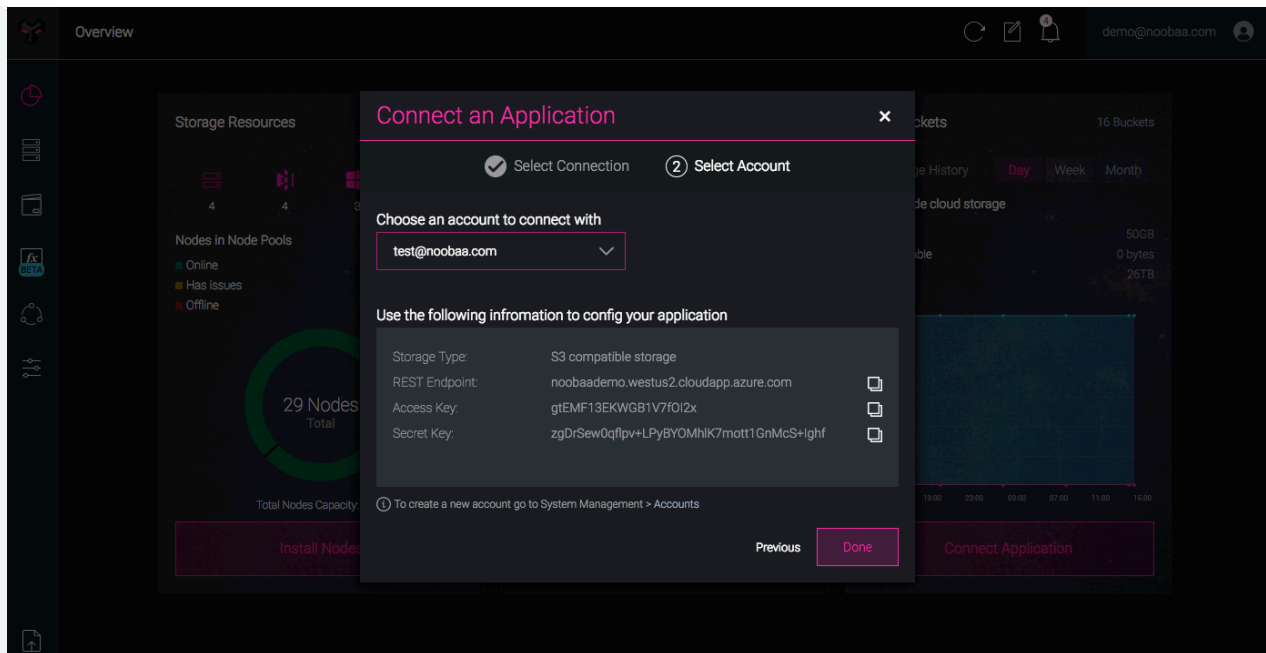
S3 storage client

1. In the overview page, click on **Connect Application** button





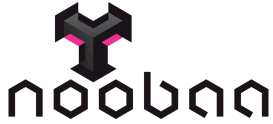
2. Use the following details for your S3 application



Each NooBaa account has a unique **access key** and **secret key** which are used to limit bucket exposure to specific accounts.

During installation, a default bucket is created named "Files". The user we had just created is already configured with access permissions to this bucket. We are able to create many buckets and accounts in various combinations.

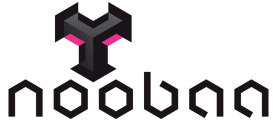
For this guide, we will continue to any S3Browser application to access Files bucket. Any S3 client or AWS S3 SDK can be used.



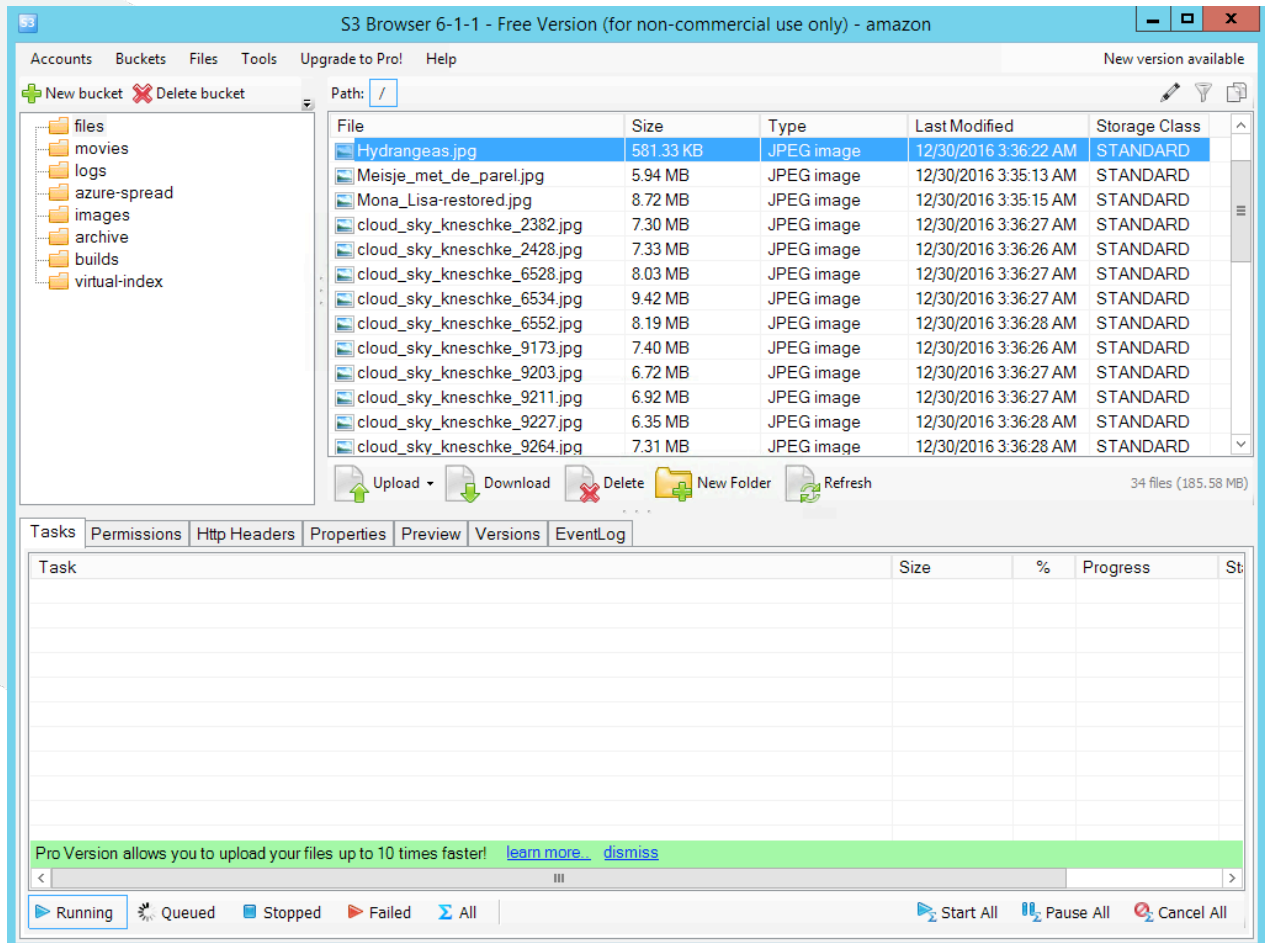
3. Configure noobaa REST details in S3 Browser (Installer for this software can be found here <http://s3browser.com/>)

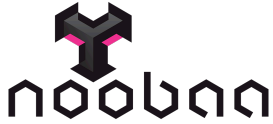
[S3 browser example:]

A screenshot of the 'Edit Account' window in the S3 Browser application. The window has a title bar with 'Edit Account' and standard window controls. Below the title bar is a header section with the Noobaa logo, the title 'Edit Account', and a subtitle 'Edit account details and click Save changes'. There is also a link to 'online help'. The main content area contains several form fields: 'Account Name' with the value 'local' and a note 'You can assign any name to your account.'; 'Storage Type' with a dropdown menu set to 'S3 Compatible Storage' and a note 'Choose the storage you want to work with. Default value is Amazon S3 Storage.'; 'REST Endpoint' with the value '192.168.0.25' and a note 'Specify S3-compatible API endpoint. It can be found in storage documentation. Example: rest.server.com:8080'; 'Access Key ID' with the value 'af9997bfb6f79692e3c44492b76bb' and a note 'Access Key ID can be found here: https://console.aws.amazon.com/iam/home?#security_credential'; 'Secret Access Key' with a masked value and a note 'Secret Access Key can be found here: https://console.aws.amazon.com/iam/home?#security_credential'; and a checkbox labeled 'Encrypt Access Keys with a password' which is currently unchecked, with a note 'Turn this option on if you want to protect your Access Keys with a master password.' At the bottom right, there are two buttons: 'Save changes' and 'Cancel'. At the bottom left, there is a link 'Click here to sign up for Amazon S3..'



4. Upload a test file via S3 Browser Upload





5. The uploaded file is also visible in NooBaa under "Files" bucket

Files in this bucket: 9836 [Upload Files](#)

Name	Creation Time	Size
flower.jpeg	29 Dec 2016 08:35:21	1.2KB
licence-agreement.txt	29 Dec 2016 08:36:22	644 bytes
Apple.jpg	29 Dec 2016 08:36:21	404KB
Hydrangeas.jpg	29 Dec 2016 08:36:22	581KB
cloud_sky_kneschke_9173.jpg	29 Dec 2016 08:36:26	7.4MB
cloud_sky_kneschke_9419.jpg	29 Dec 2016 08:36:26	7.2MB

Congratulations on completing this NooBaa tutorial!

You are now able to start exploring and experimenting

For any questions or assistance, please contact support@noobaa.com