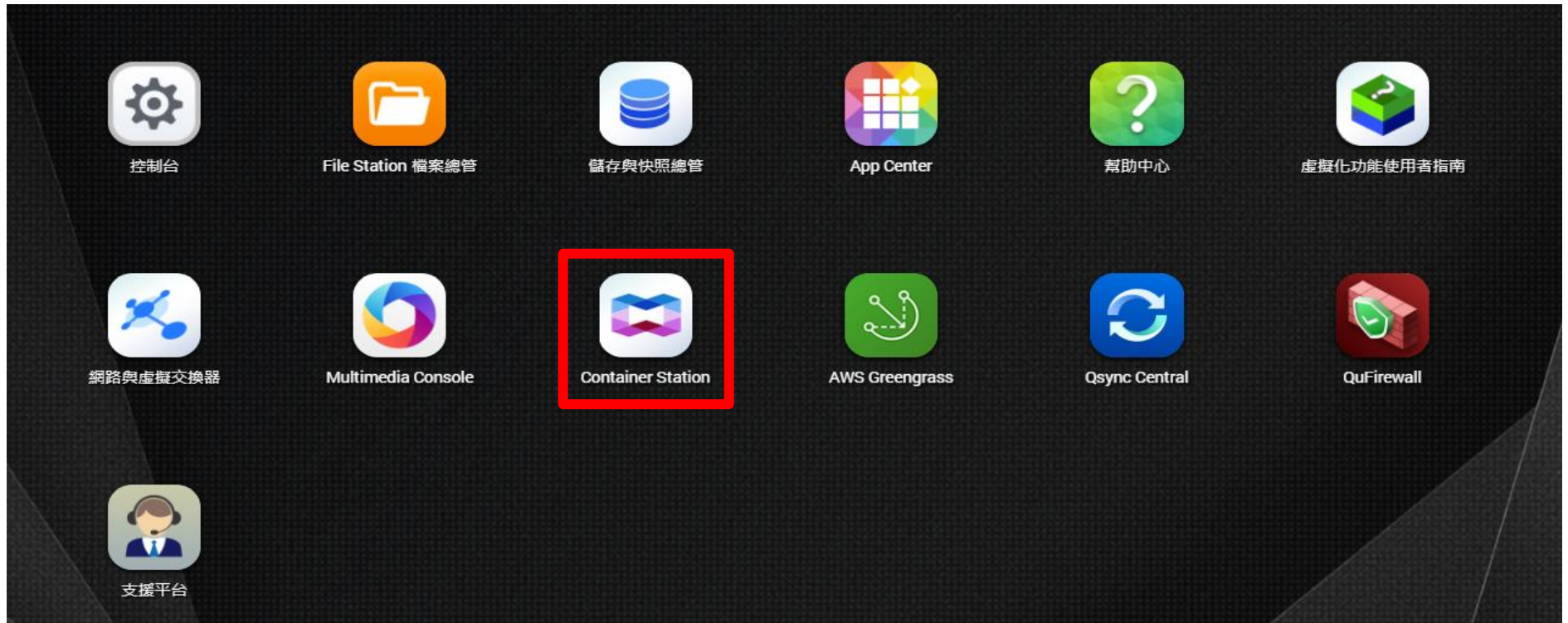


Set up and install MongoDB on QNAP NAS

Open Container Station



Click Create

Container Station

ContainerStation

Management

- Overview
- Create**
- Import
- Export
- Logs
- Preferences

Resource

- Images
- Volume
- Container

Overview

Container amount: 15

- Running 10
- Stopped 5







NAS States

ID4C

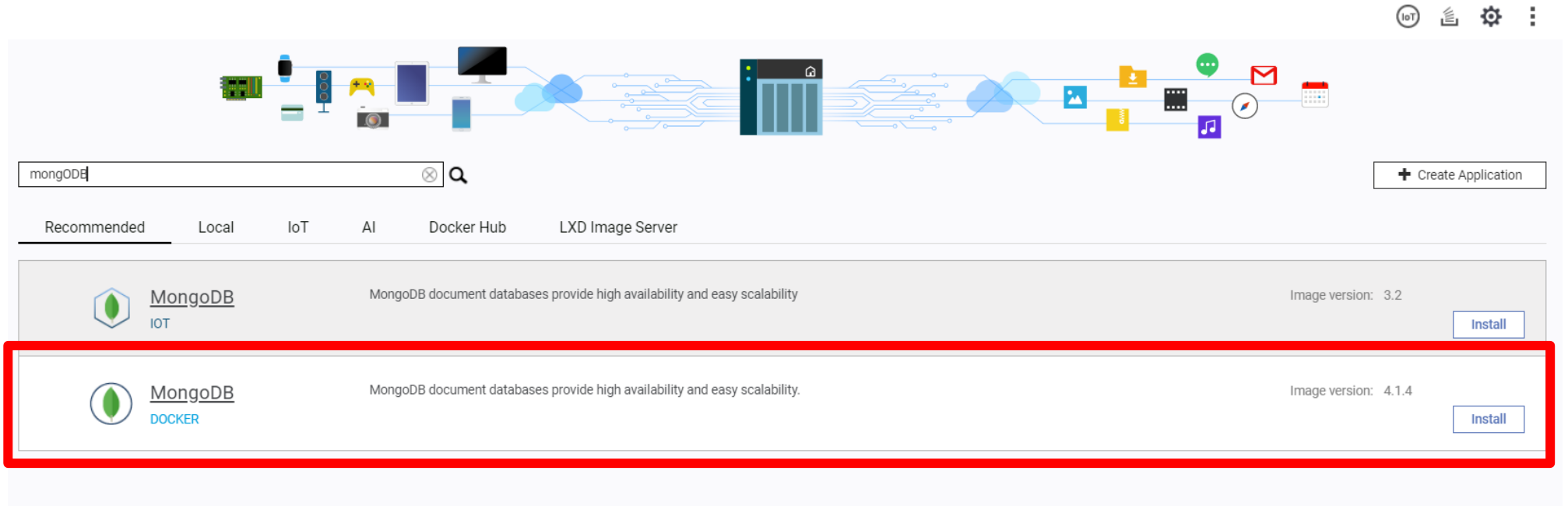
Processor
AMD Embedded
R-Series RX-421ND

All Running Stopped

Search name

Status	Name
<input type="checkbox"/>  APP gitlab	
<input type="checkbox"/>  DOCKER 23_qiot-mongodb_amd64-1 qnapnas/qiot-mongodb_amd64:3.2	
<input type="checkbox"/>  DOCKER 23_qiot-rabbitmq_amd64-2 qnapnas/qiot-rabbitmq_amd64:3.6.6-management-data-2	
<input type="checkbox"/>  DOCKER loragateway-1 ifroglab/loragateway:latest	
<input type="checkbox"/>  DOCKER mongo-1 mongo:4.1.4	
<input type="checkbox"/>  DOCKER mongoTest mongo:4.1.4-data-1	

Search for MongoDB, select MongoDB DOCKER, click install



The screenshot shows the MongoDB Docker installation interface. At the top, there is a search bar with the text "mongoDB" and a magnifying glass icon. To the right of the search bar is a "Create Application" button. Below the search bar, there are tabs for "Recommended", "Local", "IoT", "AI", "Docker Hub", and "LXD Image Server". The "Recommended" tab is selected. Below the tabs, there are two results for MongoDB. The first result is "MongoDB IOT" with an image version of 3.2. The second result is "MongoDB DOCKER" with an image version of 4.1.4. The "MongoDB DOCKER" result is highlighted with a red border. Each result has an "Install" button.

mongoDB

Create Application

Recommended Local IoT AI Docker Hub LXD Image Server

MongoDB IOT MongoDB document databases provide high availability and easy scalability. Image version: 3.2 Install

MongoDB DOCKER MongoDB document databases provide high availability and easy scalability. Image version: 4.1.4 Install

Click Create

Create Container

Image

mongo:4.1.4

Type

Docker

Name

mongo-2

Command

Entrypoint

Auto start

☒

CPU Limit

100


%

Memory Limit

7929

MB

The CPU limit must be within 10-100 %. The memory limit must be within 64-7929 MB.

 [Advanced Settings >>](#)

Create

Cancel

Click OK

Summary

Item	Value
Name	mongo-2
Auto start	Enable
CPU	100 %
Memory Limit	7929 MB
Environment	GOSU_VERSION=1.10
	GPG_KEYS=E162F504A20CDF15827F718D4B7C549A058F8B6B
	JSYAML_VERSION=3.10.0
	MONGO_MAJOR=4.1
	MONGO_PACKAGE=mongodb-org-unstable
	MONGO_REPO=repo.mongodb.org
	MONGO_VERSION=4.1.4
	PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
Network Mode	NAT

OK

Cancel

Open mongo-2

Overview ^

Container amount:16

Running

11

Stopped

5

NAS States

ID4C

Processor
AMD Embedded
R-Series RX-421ND

CPU Usage

9%

Memory Usage

28%

AllRunningStopped

🔍

▶ Start

■ Stop

↺ Restart

✕ Remove

■	Status	Name	CPU	Memory	Upload	Download	Actions
<input type="checkbox"/>	<div><div>DOCKER</div><div>loragateway-1</div><div>ifroglab/loragateway:latest</div></div>	0 %	0 %	0 B/s	0 B/s	■ ⏻ ⏴ ✕	
<input type="checkbox"/>	<div><div>DOCKER</div><div>mongo-1</div><div>mongo:4.1.4</div></div>	🔗 0 %	1 %	0 B/s	0 B/s	■ ⏻ ⏴ ✕	
<input type="checkbox"/>	<div><div>DOCKER</div><div>mongo-2</div><div>mongo:4.1.4</div></div>	🔗 0 %	1 %	0 B/s	0 B/s	■ ⏻ ⏴ ✕	
<input type="checkbox"/>	<div><div>DOCKER</div><div>mongoTest</div><div>mongo:4.1.4-data-1</div></div>					▶ ⏻ ⏴ ✕	
<input type="checkbox"/>	<div><div>DOCKER</div><div>ngrok-1</div><div>wernight/ngrok:latest</div></div>	🔗 0 %	0 %	0 B/s	0 B/s	■ ⏻ ⏴ ✕	
<input type="checkbox"/>	<div><div>DOCKER</div><div>node-red-docker-1</div><div>nodered/node-red-docker:latest</div></div>	🔗 0 %	1 %	0 B/s	0 B/s	■ ⏻ ⏴ ✕	

Click Terminal

Container Station

ContainerStation

Management

- Overview
- Create
- Import
- Export
- Logs
- Preferences
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 - Volume
 - Container

mongo-2 DOCKER

Running

URL: <http://id4c.myqnapcloud.com:49172/> → 27017

Image: mongo:4.1.4

ID: e943d2547ff5 Application: --

Entrypoint: docker-entrypoint.sh Command: mongod

CPU: 0% Memory: 1%

Network usage: 1 B 0 B/s 0 B/s

Terminal Settings Stop Remove More

Console

```
2021-09-01T05:03:24.589+0000 I INDEX [LogicalSessionCacheRefresh] build index done. scanned 0 total records. 0 secs
2021-09-01T05:03:27.033+0000 I NETWORK [listener] connection accepted from 10.0.3.1:59268 #1 (1 connection now open)
2021-09-01T05:03:27.033+0000 I NETWORK [conn1] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:59268 (connection id: 1)
2021-09-01T05:03:27.033+0000 I NETWORK [conn1] end connection 10.0.3.1:59268 (0 connections now open)
2021-09-01T05:04:04.027+0000 I NETWORK [listener] connection accepted from 10.0.3.1:59460 #2 (1 connection now open)
2021-09-01T05:04:04.028+0000 I NETWORK [conn2] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:59460 (connection id: 2)
2021-09-01T05:04:04.028+0000 I NETWORK [conn2] end connection 10.0.3.1:59460 (0 connections now open)
2021-09-01T05:04:44.064+0000 I NETWORK [listener] connection accepted from 10.0.3.1:59630 #3 (1 connection now open)
2021-09-01T05:04:44.064+0000 I NETWORK [conn3] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:59630 (connection id: 3)
2021-09-01T05:04:44.064+0000 I NETWORK [conn3] end connection 10.0.3.1:59630 (0 connections now open)
2021-09-01T05:05:22.494+0000 I NETWORK [listener] connection accepted from 10.0.3.1:59812 #4 (1 connection now open)
2021-09-01T05:05:22.494+0000 I NETWORK [conn4] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:59812 (connection id: 4)
2021-09-01T05:05:22.494+0000 I NETWORK [conn4] end connection 10.0.3.1:59812 (0 connections now open)
2021-09-01T05:05:53.110+0000 I NETWORK [listener] connection accepted from 10.0.3.1:59980 #5 (1 connection now open)
2021-09-01T05:05:53.110+0000 I NETWORK [conn5] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:59980 (connection id: 5)
2021-09-01T05:05:53.110+0000 I NETWORK [conn5] end connection 10.0.3.1:59980 (0 connections now open)
2021-09-01T05:06:20.058+0000 I NETWORK [listener] connection accepted from 10.0.3.1:60114 #6 (1 connection now open)
2021-09-01T05:06:20.058+0000 I NETWORK [conn6] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:60114 (connection id: 6)
2021-09-01T05:06:20.058+0000 I NETWORK [conn6] end connection 10.0.3.1:60114 (0 connections now open)
```


Enter mongo admin and press connect

mongo-2 DOCKER

Running

URL: <http://id4c.myqnapcloud.com:49172/> → 27017

Image: mongo:4.1.4

ID: e943d2547ff5 Application: --

Entrypoint: docker-entrypoint.sh Command: mongod

CPU: 0%

Network usage: 14 B/s ↓ 14 B/s ↑

Console

```
2021-09-01T05:04:44.064+0000 I NETWORK [conn3] end
2021-09-01T05:05:22.494+0000 I NETWORK [listener] c
2021-09-01T05:05:22.494+0000 I NETWORK [conn4] Error
(connection id: 4)
2021-09-01T05:05:22.494+0000 I NETWORK [conn4] end
2021-09-01T05:05:53.110+0000 I NETWORK [listener] c
2021-09-01T05:05:53.110+0000 I NETWORK [conn5] Error
(connection id: 5)
2021-09-01T05:05:53.110+0000 I NETWORK [conn5] end connection 10.0.3.1:59980 (0 connections now open)
2021-09-01T05:06:20.058+0000 I NETWORK [listener] connection accepted from 10.0.3.1:60114 #6 (1 connection now open)
2021-09-01T05:06:20.058+0000 I NETWORK [conn6] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:60114
(connection id: 6)
2021-09-01T05:06:20.058+0000 I NETWORK [conn6] end connection 10.0.3.1:60114 (0 connections now open)
2021-09-01T05:06:26.401+0000 I NETWORK [listener] connection accepted from 10.0.3.1:60146 #7 (1 connection now open)
2021-09-01T05:06:26.401+0000 I NETWORK [conn7] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:60146
(connection id: 7)
2021-09-01T05:06:26.402+0000 I NETWORK [conn7] end connection 10.0.3.1:60146 (0 connections now open)
2021-09-01T05:06:56.094+0000 I NETWORK [listener] connection accepted from 10.0.3.1:60308 #8 (1 connection now open)
2021-09-01T05:06:56.095+0000 I NETWORK [conn8] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:60308
(connection id: 8)
2021-09-01T05:06:56.095+0000 I NETWORK [conn8] end connection 10.0.3.1:60308 (0 connections now open)
2021-09-01T05:07:25.616+0000 I NETWORK [listener] connection accepted from 10.0.3.1:60432 #9 (1 connection now open)
2021-09-01T05:07:25.617+0000 I NETWORK [conn9] Error receiving request from client: ProtocolError: Client sent an HTTP request over a native MongoDB connection. Ending connection from 10.0.3.1:60432
(connection id: 9)
2021-09-01T05:07:25.617+0000 I NETWORK [conn9] end connection 10.0.3.1:60432 (0 connections now open)
```

Execute

Command:

- Enter the command **"use database name"** (for example: **"use qiotdatabase"**).
Enter the command **"db.createUser({ user: "input account of DB ", pwd: "input password of DB", roles: [{ role: "dbOwner", db: "input the DB name you established previously"}]})"**
(When you **"establish another new account and password"**, it cannot be the same as the previously created user account (for example: **"qiotduser"**)).

```
> use indoorlocdatabase
switched to db indoorlocdatabase
> db.createUser({user:"test",pwd:"123",roles:[{role:"dbOwner",db:"indoorlocdatabase"}]})
Successfully added user: {
  "user" : "test",
  "roles" : [
    {
      "role" : "dbOwner",
      "db" : "indoorlocdatabase"
    }
  ]
}
```

After inputting data to MongoDB, the database will appear in dbs

```
> show dbs
admin          0.000GB
config         0.000GB
indoorlocdatabase 0.000GB
local          0.000GB
> |
```