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# Get started with UltronGlow



[UltronGlow](#) is a decentralized storage network designed to store, back-up and share your data, securely and privately. Additionally, you can offer your surplus storage capacity on your computer to other members of the network while earning rewards (UTG) for doing so.

There are 3 ways to participate in the UltronGlow ecosystem:

- Become a Validator on UltronGlow's Proof-of-Stake network
- Share your surplus storage on the UltronGlow network and earn rewards
- Rent storage from others on the UltronGlow network

## Become a Validator on UltronGlow

If you are familiar with mining on other networks, such as Ethereum, then becoming an **UltronGlow Validator** will likely be a similar experience. However, if you have not previously set up a Validator on other Proof-of-Stake networks, beware that it can be a complicated process.

To become a Validator on the UltronGlow network, head over to [Become a Validator](#) to get started!

## Sharing storage on UltronGlow

Sharing your computer's surplus storage on the UltronGlow network makes your computer a **Storage Provider**, and mining node on the network. By providing storage on the UltronGlow network, you not only help decentralize the world's data, you earn rewards that you can use for applications on the network - such as renting other's storage to take a defense-in-depth approach to backing-up your data.

To become an UltronGlow Storage Provider, head over to [Become a Storage Provider](#) to get started!

## Rent storage from other Storage Providers on UltronGlow

If you don't have surplus storage to share on the UltronGlow network, or setting-up a Validator is a bit too daunting, don't worry. You can still participate in UltronGlow by renting storage from other Storage Providers on the network.

To rent storage, head over to [Rent Storage Space](#) to get started!

## More Resources

In addition to our documentation, check out our other resources to help you learn more about UltronGlow and connect with other UTG'ers!

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## Getting Started

[UltronGlow](#) is an EVM-compatible Proof-of-Stake (PoS) blockchain network. Validators on any PoS network perform the important task of ordering and appending transactions to the ledger. In UltronGlow, the PoS consensus mechanism has been improved to ensure any participant that wants to validate on the network has a fair chance to do so.

Deploying a validator node on the UltronGlow network can be a technically complex process, requiring skills in building and deploying code, as well as ensuring the Validator node is performant and highly-available. When deploying a validator, the deploying party must stake an amount of UTG to do so.

For details on deploying an UltronGlow validator, please see our [Github](#) repository for details.

## More Resources

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## Getting Started

[UltronGlow](#) is a decentralized storage network designed to store, back-up and share your data, securely and privately. Additionally, you can offer your surplus storage capacity on your computer to other members of the network while earning rewards (UTG) for doing so. Sharing your computer's surplus storage on the UltronGlow network makes your computer a **Storage Provider**, and mining node on the network.

By providing storage on the UltronGlow network, you not only help decentralize the world's data, you earn rewards that you can use for applications on the network - such as renting others' storage to take a defense-in-depth approach to backing-up your data.

Before you get started becoming a Storage Provider, you have some homework to do! Make sure you've completed the following prerequisites before moving to the Next Steps below. This will ensure you can complete all tutorials to get up and running quickly.

## Prerequisites

- Ensure your computer has at least **1 terabyte of available storage** for rental with additional storage available for your Docker container maintenance.
- [Install Metamask](#) and create a new account if you haven't already.
- Purchase UltronGlow's native token, UTG, from [Hotcoin Global](#) or [Bitmart](#) and transfer your UTG to your MetaMask wallet.

### NOTE

You will have to purchase USDC or USDT on either exchange first, and then convert it to UTG.

The amount of UTG you will need to provide 1TB of storage varies based on the current price of UTG. As of February 2023, you should purchase 2 UTG to get started.

- [Install Docker Desktop](#) on your computer to host the UltronGlow Storage Provider Docker container.

## More Resources

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- Join us on [Telegram](#)
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- Check out our videos on [YouTube](#)
- Read the [Whitepaper](#)

## Next Steps

Ready to join the revolution of decentralized storage and earning while doing so? Continue on to the [Next Step](#) to configure your computer to become an UltronGlow Storage Provider!

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## Getting Started

Participating in [UltronGlow](#) does not require you to host your own Validator or Storage Provider. You can rent storage from others on the [UltronGlow Storage Market](#) which provides thousands of nodes to rent storage.

Whether you want a location to share files with others, or backing up your data from your computer, renting storage is a great alternative to centralized storage providers providing you the option to choose how much storage you want to rent at the price you are willing to pay.

The screenshot shows a web browser window for 'UltronScan' at the URL <https://www.ultronscan.io/market/>. The page has a dark background with a futuristic, glowing network-like pattern. At the top, there's a navigation bar with links for Home, Blockchain, Token, Reward, Resources, Tools, and My. Below the navigation, it says 'Current Network: Mainnet Meta' and 'The UltronGlow Blockchain Explorer'. There's a search bar with the placeholder 'Address/Transaction hash/Block height...'. In the main content area, there's a section titled 'STORAGE MARKET' with a table showing four entries:

#	Node address	Reward address	Total space	Rented space	Rentable space	Upload bandwidth	Rental Price	Operation
1	<a href="#">ux8e3af0a9...f667103c7f</a>	<a href="#">ux8babcec8...8e0317026b</a>	73.6279 TB	73.623 TB	0 B	101 Mbps	0.000016 SRT/GB-Day	<a href="#">Rent</a>
2	<a href="#">ux93e88d40...9fa97f5023</a>	<a href="#">ux447286d9...e6d8da5daf</a>	46.2793 TB	46.2744 TB	0 B	100 Mbps	0.000016 SRT/GB-Day	<a href="#">Rent</a>
3	<a href="#">ux695c422a...f47c9adb32</a>	<a href="#">ux447286d9...e6d8da5daf</a>	46.2793 TB	46.2744 TB	0 B	100 Mbps	0.000016 SRT/GB Day	<a href="#">Rent</a>
4	<a href="#">ux33705d18...038affabb6</a>	<a href="#">ux8babcec8...8e0317026b</a>	65.4492 TB	65.4443 TB	0 B	101 Mbps	0.000016 SRT/GB-Day	<a href="#">Rent</a>

## Prerequisites

- Purchase UltronGlow's native token, UTG, from [Hotcoin Global](#) or [Bitmart](#) and transfer your UTG to your MetaMask wallet.

### NOTE

You will have to purchase USDC or USDT on either exchange first, and then convert it to UTG.

## More Resources

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## Next Steps

Ready to start storing your data on the UltronGlow decentralized storage network? Continue on to the [Next Step](#) to start renting storage today!

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# Become a Validator

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Become a Storage Provider

# Become a Storage Provider

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## Setting up your Device

Storage providers on the UltronGlow network utilize containerization technology to provide a seamless way to configure storage for rental, as well as earning rewards for doing so.

This guide provides instructions to configure **Docker Desktop**, find and download the UltronGlow container from **DockerHub**, and configure the container appropriately for use on the UltronGlow network.

Before starting, make sure you have followed the below prerequisites in order to be successful.

### Prerequisites

- Complete the prerequisites in [Getting Started](#).

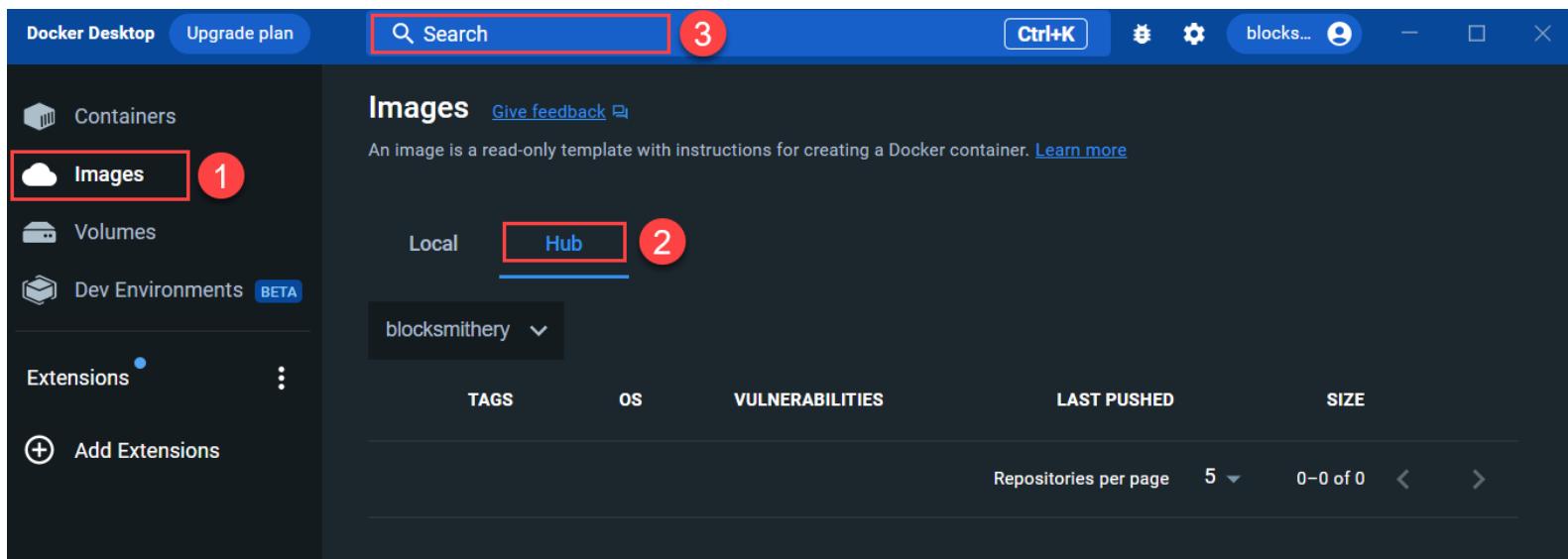
### Steps

#### 1. Download the UltronGlow Storage Provider Docker image

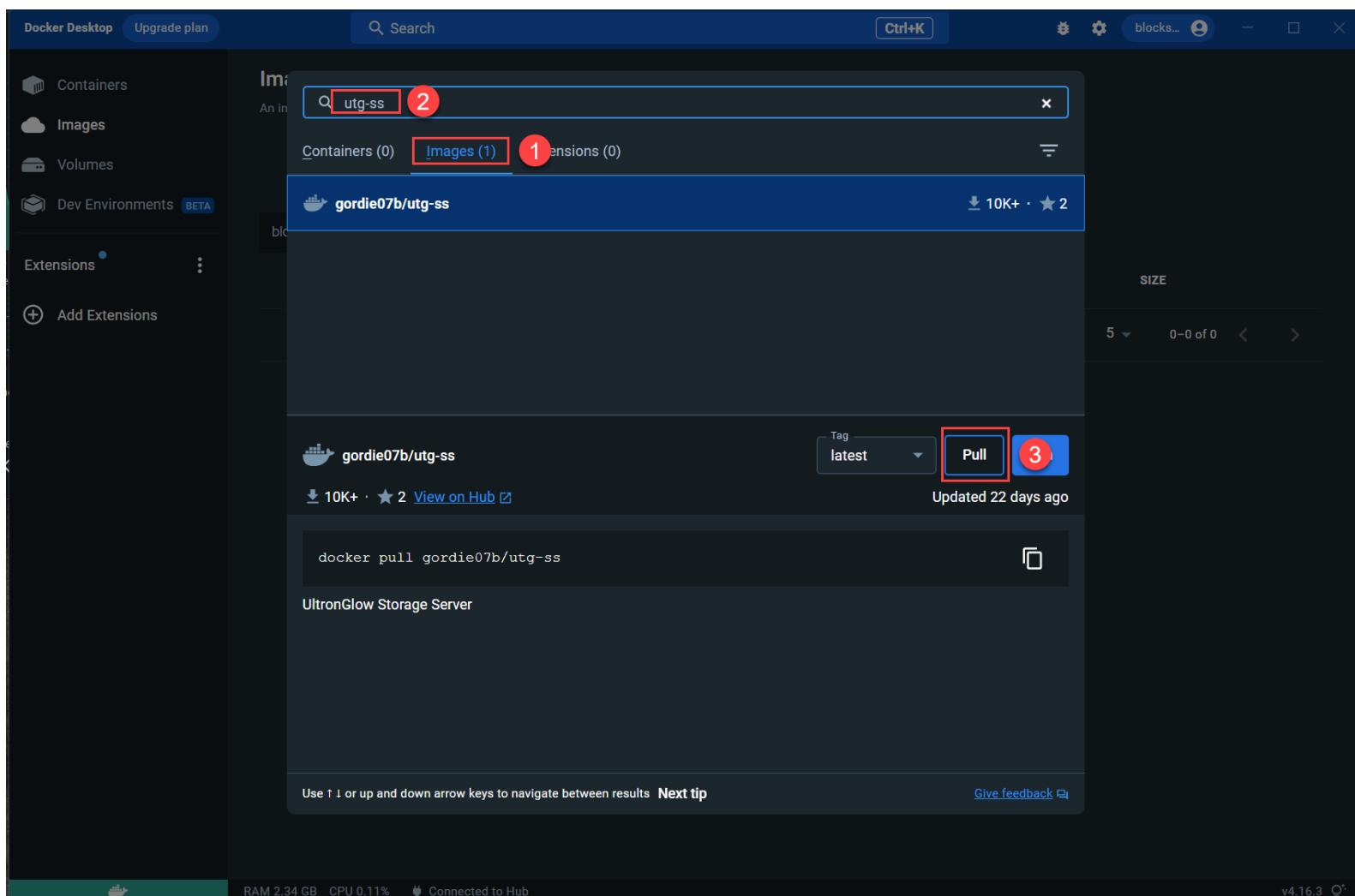
Once you have Docker Desktop installed on your computer, you will host a container that will run the UltronGlow Storage Provider services that facilitate sharing your storage on the network.

Open the **Docker Desktop** application on your computer.

1. Open **Images** in the left navigation bar.
2. Change from **Local** to **Hub** to search for the UltronGlow image in Docker Hub.
3. Click on the **Search** field.



1. Click on the **Images** tab to search for the image.
2. In the **Search** bar, type **utg-ss** to find the *gordie* image.
3. Once you find the image, click on the **Pull** button to download the image to your computer.



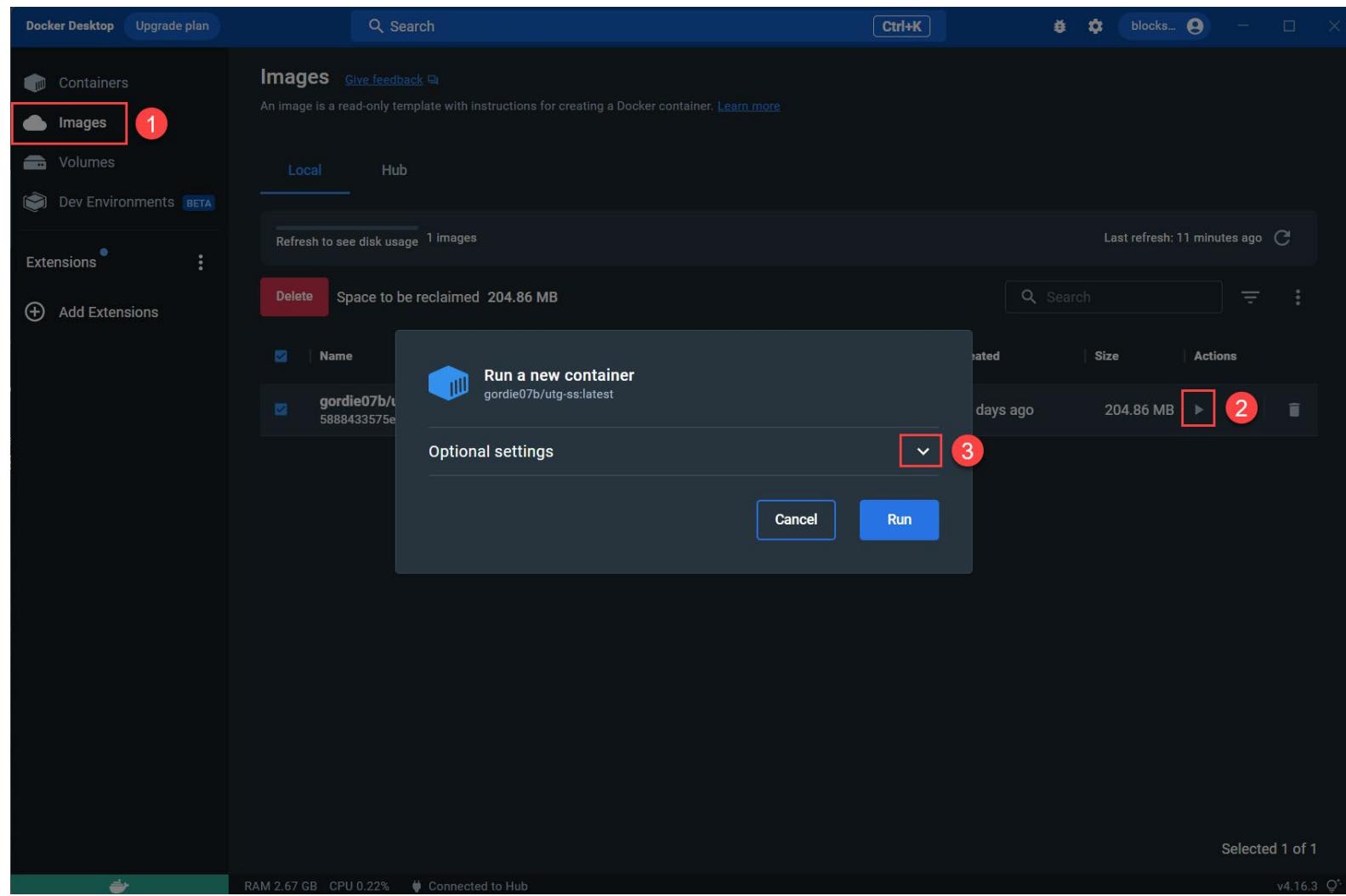
The image will take a few seconds to download to your computer.

## 2. Configure and run the Docker container

Once the image has downloaded successfully, you will configure the container for your computer which will enable you to offer your storage resources on the [UltronGlow storage market](#).

In Docker Desktop, do the following:

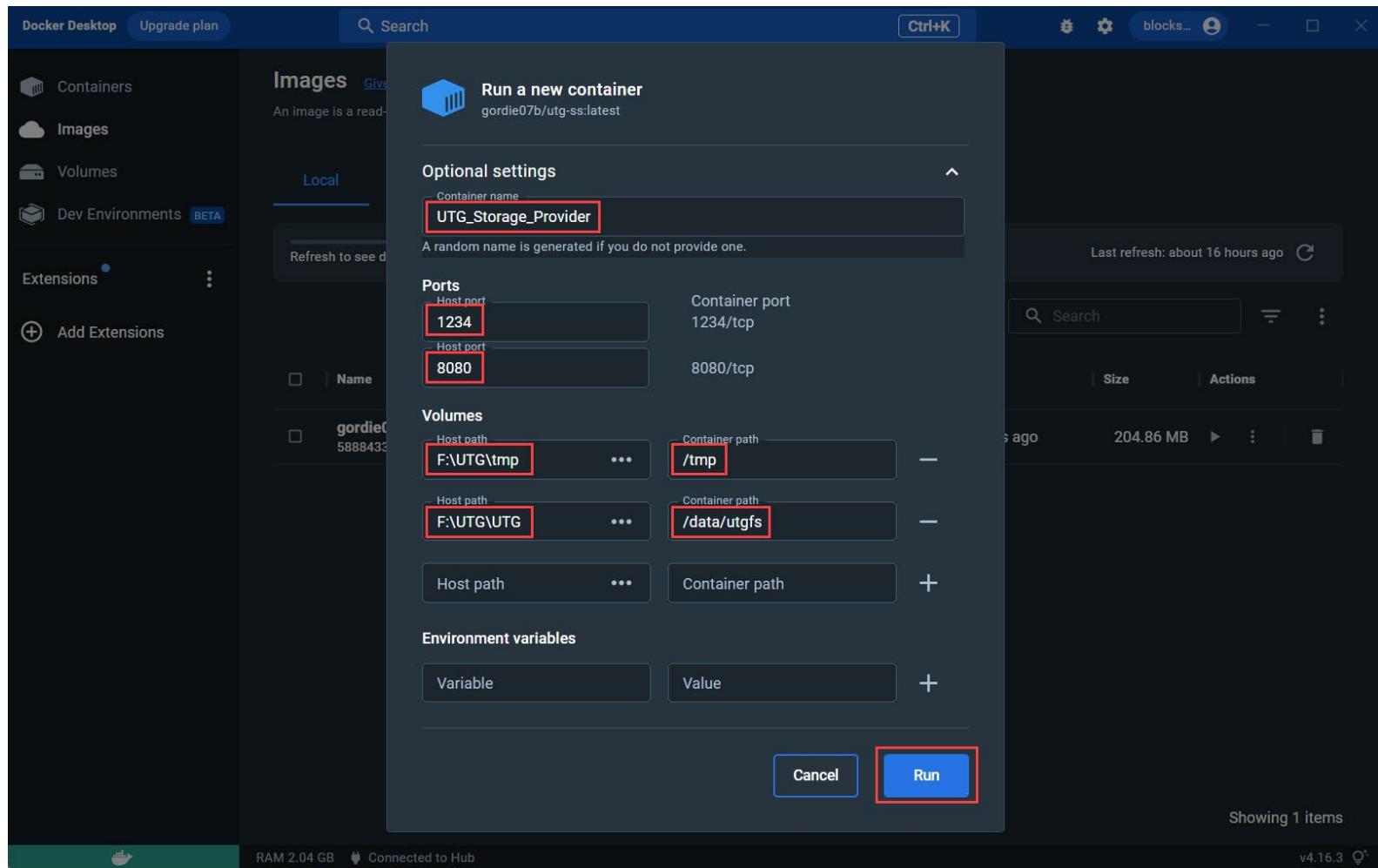
1. Click on **Images** on the left navigation pane.
2. Click on the **Run** button, which will bring-up the **Run a new container** dialog box.
3. Click on the **Optional Settings** dropdown button where you will configure the container.



The image will take a few seconds to download to your computer. Once the image has downloaded successfully, do the following:

1. Click on **Images** on the left navigation pane.
2. Click on the **Run** button, which will bring up the **Run a new container** dialog box.
3. Click on the **Optional Settings** dropdown button where you will configure the container as follows:
  - Enter a descriptive name for in the `Container name` field. In this example, it is **UTG\_Storage\_Provider**.

- In the **Host port** fields, enter **1234** and **8080** respectively.
- In the **Host path** fields under **Ports**, you will specify the location of the storage you want to share.
  - You will first need to create 2 subdirectories on the drive you are using to share storage, named **\tmp** and **\utg** respectively.
  - In **Host Path**, enter the path to the **\tmp** directory you created in the above step.
  - In **Container path**, enter **/tmp**
  - Click on the **+** icon, which is located to the right of the path you just entered, which will create another **Host Path** and **Container path** line.
  - In the new **Host path** field, enter the path to the **\utg** directory you created earlier.
  - In the new **Container path** field, enter **/data/utgfs**.
- Click on the **Run** button to start your Storage Provider container.



1. Navigate back to **Containers** in Docker Desktop, and you'll see that your container is now running.

A screenshot of the Docker Desktop application interface. The left sidebar shows navigation options: 'Containers' (selected), 'Images', 'Volumes', 'Dev Environments (BETA)', 'Extensions' (with a blue dot), and 'Add Extensions'. The main area is titled 'Containers' with a sub-instruction: 'A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)'. It includes a toggle switch for 'Only show running containers' and a search bar. A table lists the running container 'UTG\_Storage\_Provider' with details: Name (UTG\_Storage\_Provider), Image (gordie07b/utg-ss:latest), Status (Running), Port(s) (1234:1234, 8080:8080), Started (28 seconds ago), and Actions (three dots). The 'Status' column for the container is highlighted with a red border.

## Next Steps

Congratulations, you've successfully deployed your UltronGlow Docker image on your computer! Continue on to the [Next Step](#) to connect your Docker image to **UltronScan** and rent your storage on the Storage Market.

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Rent Storage Space

# Rent Storage Space

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## Rent Storage on UltronGlow Marketplace

Renting storage on the [UltronGlow Storage Market](#) uses smart contracts on the UltronGlow blockchain to form a rental agreement between you, and the Storage Provider who you will be renting the storage from. This establishes a transparent, binding agreement between you (the Rentor) and the Storage Provider (the Rentee) on terms for storage rental, such as:

- The price of the storage to be rented
- The length of the rental contract
- Penalties if the Rentee fails to provide storage resources per the term of the rental contract

Once you enter a rental contract, the Rentee will process (agree) to the contract, and provide you with a link to access the rented storage, which can only be accessed by you through your MetaMask account.

This tutorial will guide you through the steps to find a Rentee to enter a rental agreement with, renting their storage and how you will subsequently access the storage for usage.

## Prerequisites

- Complete the [Get SRT to Rent Storage](#) tutorial as you'll need SRT to rent storage.

## Steps

### 1 - Find Storage to Rent

1. Navigate to the [UltronGlow Storage Market](#).
2. Search through the list of available Storage Providers and choose one that fits your needs for the amount of storage you want and the amount you are willing to pay.
3. Click the **Rent** link next to their listing.

The screenshot shows the UltronScan marketplace interface. At the top, there's a navigation bar with links for Home, Blockchain, Token, Reward, Resources, Tools, and My. Below the header, a banner displays "Current Network: Mainnet Beta" and "The UltronGlow Blockchain Explorer". A search bar at the top right contains the placeholder "Address/Transaction hash/Block height...". Below the banner, a section titled "STORAGE MARKET" shows a table of available storage providers. The table has columns for #, Node address, Reward address, Total space, Rented space, Rentable space, Upload bandwidth, Rental Price, and Operation. Three rows of data are listed:

#	Node address	Reward address	Total space	Rented space	Rentable space	Upload bandwidth	Rental Price	Operation
91	ux33226d24...a1c98d761b	ux447286d9...e6d8da5daf	69.0869 TB	69.082 TB	0 B	110 Mbps	0.000016 SRT/GB-Day	<a href="#">Rent</a>
92	uxa2fbb0d6...23715fdbdb4	uxbee4cd6d...ae9c57ffe1	2.6172 TB	1.001 TB	1.6113 TB	100 Mbps	0.000016 SRT/GB-Day	<a href="#">Rent</a>
93	ux86acff61...48e2362df6	ux5c507466...3cf805230	2.6172 TB	1.001 TB	1.6113 TB	100 Mbps	0.000016 SRT/GB-Day	<a href="#">Rent</a>

## 2 - Rent Storage

This will bring you to the **Storage Rental** page, which will give you the options to determine how much of the Storage Providers space you want to rent, for how long you want to rent their storage, and the associated price of the rental based on the selected terms.

1. In the **rent space** section, move the slider, or type the amount in the textbox, of the amount of storage you would like to rent.
2. In the **rental duration** section, move the slider, or type the number of days that you would like to rent the selected storage.
3. Click the **Rent** button.

Current Network: Mainnet Beta

The UltronGlow Blockchain Explorer

Address/Transaction hash/Block height...

Search

STORAGE RENTAL

Pledge address ux2fb0d6! 23715fbdb4

rental address uxf0e3975af d2b4fa8bd9

Rentable space 1650 GB

rent space 1650 ①

Rental space at least 1025GB, and is a multiple of 5GB unit: GB

rental duration 60 ②

Rental duration at least 30days, unit: days

rental price 0.000016 SRT/GB·Day

Estimate 1.584 SRT

Rent ③

This will bring-up a MetaMask prompt to confirm the transaction on the UltronGlow network.

1. Click on the **Confirm** button in MetaMask.
2. Wait for the transaction to complete and dismiss the dialog.

Current Network: Mainnet Beta

The UltronGlow Blockchain Explorer

Address/Transaction hash/Block height... Search

**Storage Rental**

rental address : uxffc4ce57ce69 582ea9ba7af

2023-02-14 10:52:26

Please Confirm !

State: *Trading in Progress*

Rental space: 1650

Rental duration: 60

Rental space at least 1025GB, and is a multiple of 5GB unit: GB

Rental duration at least 30days, unit: days

**DETAILS DATA HEX EDIT**

**Estimated gas fee** 0.00158117  
0.00158117 UTG

**Total** 0.00158117  
0.00158117 UTG

Amount + gas fee **Max amount:** 0.00158117 UTG

**Reject** **Confirm**

### 3 - View Rental Agreement

Once the transaction has completed on the UltronGlow network, you can view the status of the agreement on UltronScan.

1. Click on **My** in top-right corner of the UltronScan website.
2. Click on **Storage Rental**.

UltronScan

Home Blockchain Token Reward Resources Tools My

My Overview Recharge Record Delegate management Block Miner Ultron Node Produced Block Block Reward Storage Storage Server Node Storage Reward Storage Rental

Address/Tr...

**Storage Rental**

Pledge address uxa2fbb0d65e61 530423715fdbdb4

rental address uxffc4ce57ce69 582ea9ba7af

In the **Storage Rental** page, you will see the status of the rental agreement.

1. **Scroll** to the far right of the window in order to see the last few columns.
2. Note the **rent status** is listed as `Not pledged`.

The screenshot shows the UltronScan storage rental interface. At the top, it displays "Current Network: Mainnet Beta" and "The UltronGlow Blockchain Explorer". Below this is a search bar with placeholder text "Address/Transaction hash/Block height..." and a "Search" button. The main content area is titled "STORAGE RENTAL" and shows a table with one row of data. The table columns are: server address, apply time, rent space, pledge amount, rental price, rental duration, total rent, rent status, and Operation. The data row is: i...23715fdbdb4, 2023-02-14 10:55:00, 1.6113 TB, 0 UTG, 0.000016 SRT/GB·Day, 60Day, 1.5840 SRT, Not pledged (highlighted with a red box), and a red circle labeled '2' next to the "Renewal" and "Terminate" buttons. A red arrow labeled '1' points to the "First" button in the pagination footer. The footer also includes a "Show 10 records" dropdown and buttons for "First", "Last", and "1 / 1".

server address	apply time	rent space	pledge amount	rental price	rental duration	total rent	rent status	Operation
i...23715fdbdb4	2023-02-14 10:55:00	1.6113 TB	0 UTG	0.000016 SRT/GB·Day	60Day	1.5840 SRT	Not pledged	<span style="color:red;">2</span> Renewal Terminate

At this stage, the Storage Provider you rented from needs to confirm the agreement on their side and provides you with a link to access your rented storage. Since this is a manual action on the Storage Provider's part, this could take some time as they need to respond to the rental request.

## 4 - Access your Rented Storage

Once the Storage Provider has finalized the agreement, you will be able to go back to the **Storage Rental** page.

1. **Scroll** to the far right of the window in order to see the last few columns.
2. Note the **rent status** is listed as `normal`. **Hover** your mouse cursor over the location icon.
3. **Copy** the URL that shows-up below the location.

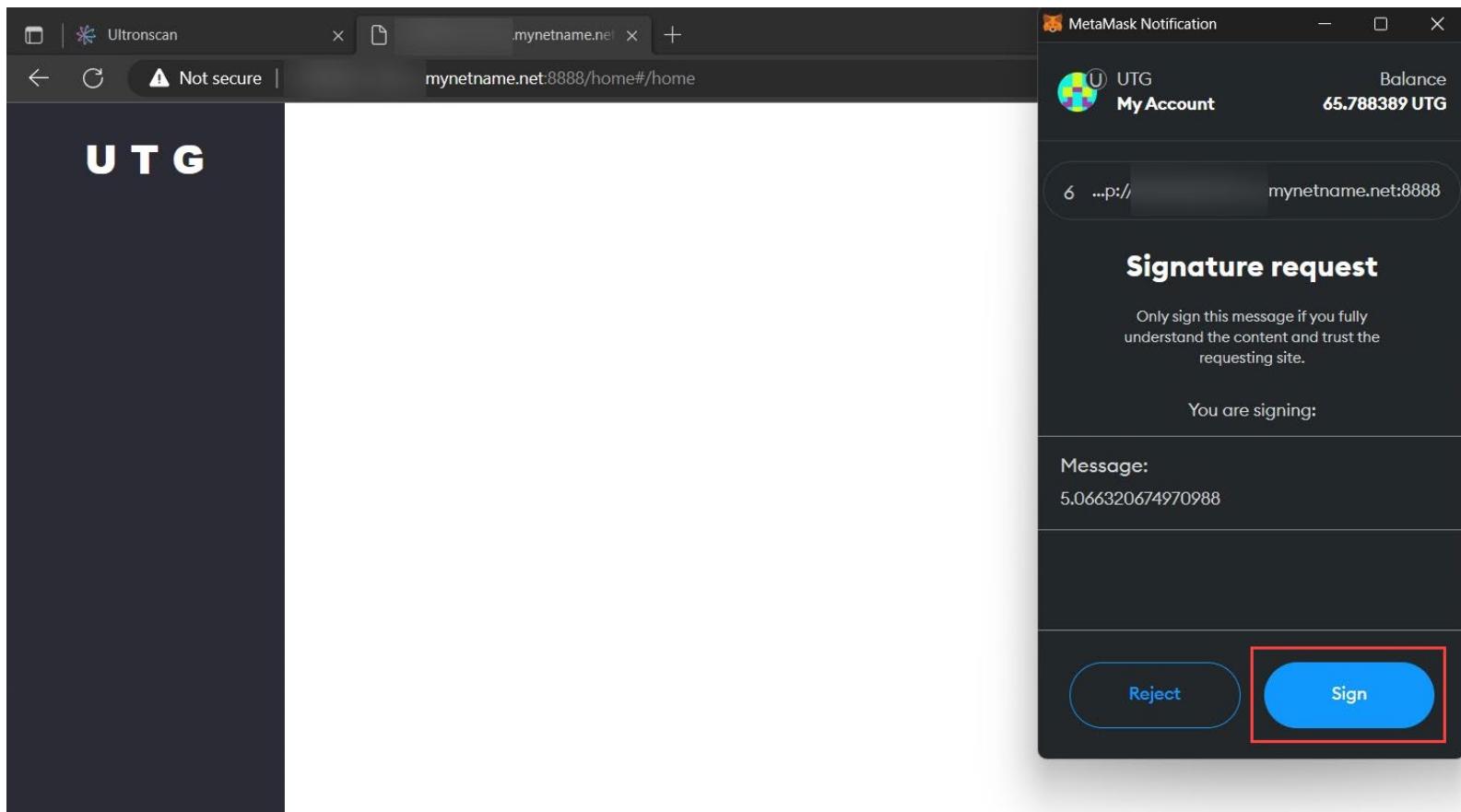
The screenshot shows the UltronScan storage rental interface. At the top, it displays "Current Network: Mainnet Beta" and "The UltronGlow Blockchain Explorer". Below this is a search bar with placeholder text "Address/Transaction hash/Block height..." and a blue "Search" button. The main content area is titled "STORAGE RENTAL" and shows a table with one data row. The table columns are: Server address, apply time, rent space, pledge amount, rental price, rental duration, total rent, rent status, and Operation. The single row of data is: [i...23715fdbdb4](#), 2023-02-07 21:30:00, 1.001 TB, 5.7671 UTG, 0.00037 SRT/GB-Day, 30Day, 11.3775 SRT, normal. The "Operation" column contains two buttons: "Renewal" and "Terminate". A red circle labeled "1" points to the "First" navigation button at the bottom left of the table. A red circle labeled "2" points to the "normal" status cell. A red circle labeled "3" points to the URL "http://mynetname.net:8888/home" shown in the "Operation" column. The bottom of the table has a "Show 10 records" dropdown and navigation buttons for "First", "Previous", "Next", "Last", and "1 / 1".

Server address	apply time	rent space	pledge amount	rental price	rental duration	total rent	rent status	Operation
<a href="#">i...23715fdbdb4</a>	2023-02-07 21:30:00	1.001 TB	5.7671 UTG	0.00037 SRT/GB-Day	30Day	11.3775 SRT	normal	<a href="#">Renewal</a> <a href="#">Terminate</a>

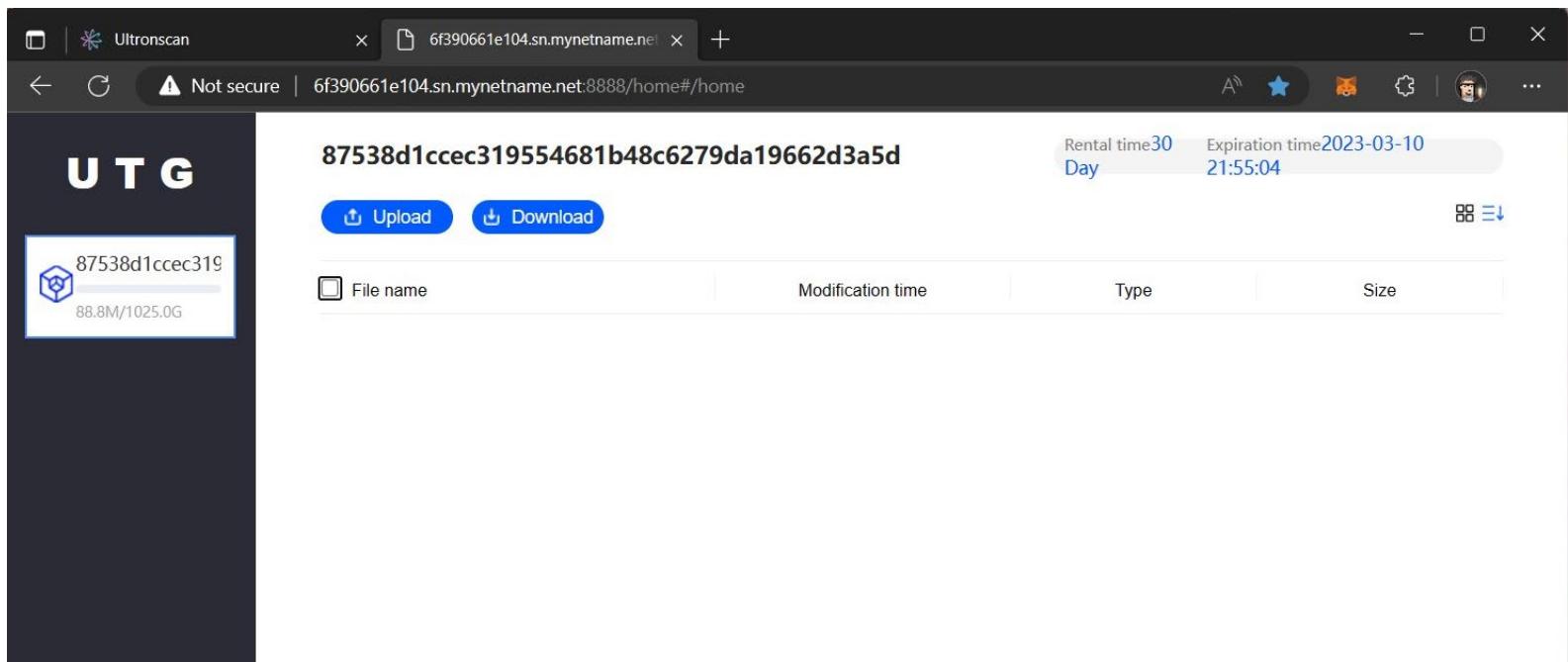
In a new browser tab, paste in the URL you copied from the previous step.

This will bring-up MetaMask prompt for you to access your storage. By connecting the storage location to your MetaMask account, only **you** have access to this storage location as the rental agreement is tied to this account.

1. Click the **Confirm** button in MetaMask to authenticate and access your storage space.



The interface of your storage space should be very familiar if you've ever used a browser to upload or download files, such as Google Drive or Microsoft OneDrive.



## More Resources

In addition to our documentation, check-out our other resources to help you learn more about UltronGlow and connect with other UTG'ers!

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## Next Steps

Congratulations! You've successfully recharged your SRT record, found a Storage Provider to rent storage from, completed the rental agreement and accessed your storage!

There's much more coming from the UltronGlow team to improve the experience and capabilities of the network. Keep an eye out on [our latest news](#) as we continue down the journey of bringing decentralized storage to the world!

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## Get SRT to Rent Storage

Renting storage space on the [UltronGlow Storage Market](#) is done by obtaining SRT (Storage Resource Token). SRT is a credit which is used exclusively for renting storage, and is designed such that once you exchange UTG for SRT, the price of SRT remains constant. This avoids the problem of the potentially fluctuating price of UTG during a rental agreement.

For example, if you convert the equivalent of \$10 of UTG into SRT, that SRT is guaranteed to be worth \$10 of services on the Storage Market. As you enter a rental agreement, you can rest assured that the actual price of your rental will not fluctuate as the price of UTG changes over time.

This tutorial will guide you through the steps to convert a portion of your UTG over to SRT to start renting storage.

## Steps

### 1 - Recharge your SRT

1. Navigate to the [UltronScan](#).
2. Click on **My** in the top-right corner of UltronScan, and then click on **Recharge Record** in the menu dropdown.

The screenshot shows the UltronScan dashboard. At the top, there's a navigation bar with links for Home, Blockchain, Token, Reward, Resources, Tools, and a dropdown menu labeled 'My'. The 'My' dropdown is open, showing options: Overview, Recharge Record (which is highlighted with a red box), and Delegate management. Below the dropdown, there's a summary card with various metrics. On the left, there's a sidebar with a globe icon and the word 'Overview'.

Block Height	Effective Storage	Total Pledge Quantity	Total Lock Up Quantity
<b>340844</b>	<b>182.9356 PB</b>	<b>821922.54 UTG</b>	<b>1397124.1617 UTG</b>
Burnt UTG	Storage Reward	Last 24 hours of output	Next election block
<b>990388.0222 UTG</b>	<b>1246394.9084 UTG</b>	<b>9073.2640 UTG</b>	<b>3408510 BLOCK</b>

In the page that appears, you will see how much UTG you have in your MetaMask account next to **Balance**, and what your remaining SRT is (which should be 0) next to **Remaining SRT**.

1. Click on the **Exchange** link next to your Remaining SRT

The screenshot shows a web browser window for UltronScan.io. The URL in the address bar is https://www.ultronscan.io/mymanage/paylog. The page header includes the UltronScan logo, navigation links for Home, Blockchain, Token, Reward, Resources, Tools, and My, and a settings gear icon.

The main content area displays a dark-themed header with "Current Network: Mainnet Beta" and "The UltronGlow Blockchain Explorer". Below this is a search bar with placeholder text "Address/Transaction hash/Block height..." and a blue "Search" button.

A section titled "RECHARGE RECORD" contains a table with the following data:

Reward Address	uxffc4ce57ce69	582ea9ba7af
Balance	86.0415 UTG	
Remaining SRT	8.6713 SRT	<a href="#">Exchange</a>

The "Exchange" link in the last row is highlighted with a red box.

1. In the **Exchange** field, enter the amount of SRT you'd like to exchange.
2. Click on the **Exchange** button to initiate transfer.

The screenshot shows the UltronScan homepage with a dark, abstract background featuring geometric shapes. At the top, there's a navigation bar with links for Home, Blockchain, Token, Reward, Resources, Tools, and My. Below the navigation is a search bar with placeholder text "Address/Transaction hash/Block height...". To the right of the search bar is a blue "Search" button. The main content area has a title "Current Network: Mainnet Beta" and "The UltronGlow Blockchain Explorer". Below this is a form for an exchange. It includes fields for "Address" (with values "uxffc4ce57ce69" and "582ea9ba7af"), "Exchange" (with value "30" highlighted by a red box), and a "Required" note. An "Estimate: 20.251113811259618 UTG" is shown below. A large blue "Exchange" button is at the bottom of the form, also highlighted by a red box.

This will initiate the exchange which will prompt a MetaMask transaction to occur.

Click the **Confirm** button in MetaMask transaction and wait for the dialog on UltronScan says it's complete and then dismiss the window.

The screenshot shows two overlapping windows. The foreground window is the UltronScan "Exchange" dialog, which is a light blue box containing the exchange details: "20.251113811259619279 UTG => 30 SRT" and the addresses "uxffc4ce57ce69" and "582ea9ba7af". It also shows the date and time "2023-02-14 10:32:12" and a "Please Confirm!" button. The background window is a "MetaMask Notification" titled "Edit" with the identifier "UTG". It displays the transaction details: "Estimated gas fee: 0.0015642 UTG" and "Max fee: 0.0015642 UTG". It also shows the total amount "0.0015642 UTG" and the note "Amount + gas fee Max amount: 0.0015642 UTG". At the bottom of the MetaMask window are two buttons: "Reject" and "Confirm", with "Confirm" highlighted by a red box.

## 2 - Confirm your SRT Balance

1. Navigate to the [UltronScan](#).
2. Click on **My** in the top-right corner of UltronScan, and then click on **Recharge Record** in the menu dropdown.

The screenshot shows the UltronScan web application. At the top, there's a navigation bar with links for Home, Blockchain, Token, Reward, Resources, Tools, and a dropdown labeled 'My'. The 'My' dropdown is highlighted with a red box. Inside the 'My' dropdown, there are three sections: 'My' (Overview, Recharge Record, Delegate management), 'Block Miner' (Ultron Node, Produced Block, Block Reward), and 'Storage' (Storage Server Node, Storage Reward, Storage Rental, Rental List, Storage Pledge). Below the dropdown, there's a large 'Overview' section with various metrics:

Block Height	Effective Storage	Total Pledge Quantity	Total Lock Up Quantity
<b>3408444</b>	<b>182.9356 PB</b>	<b>821922.54 UTG</b>	<b>1397124.1617 UTG</b>
Burnt UTG	Storage Reward	Last 24 hours of output	Next election block
<b>990388.0222 UTG</b>	<b>1246394.9084 UTG</b>	<b>9073.2640 UTG</b>	<b>3408510 BLOCK</b>

In the page that appears, you will see that your **Remaining SRT** is now updated!

The screenshot shows a web browser window for 'UltronScan' at the URL <https://www.ultronscan.io/mymanage/paylog/>. The page header includes the UltronScan logo, navigation links for Home, Blockchain, Token, Reward, Resources, Tools, and My account, along with a search bar and a 'Search' button. The main content area displays a dark background with a futuristic, glowing pattern. At the top, it says 'Current Network: Mainnet Beta' and 'The UltronGlow Blockchain Explorer'. Below this is a search bar labeled 'Address/Transaction hash/Block height...'. The central part of the page is titled 'RECHARGE RECORD' and contains the following information:

Reward Address	<a href="#">uxffc4ce57ce69</a>	<a href="#">582ea9ba7af</a>
Balance	65.7894 UTG	
Remaining SRT	38.6713 SRT	<a href="#">Exchange</a>

A red box highlights the 'Remaining SRT' row.

## More Resources

In addition to our documentation, check-out our other resources to help you learn more about UltronGlow and connect with other UTG'ers!

- Join us on [Telegram](#)
- Follow us on [Twitter](#)
- Check out our videos on [YouTube](#)
- Read the [Whitepaper](#)

## Next Steps

Now that you have recharged your SRT balance, you're ready to start renting storage from the Marketplace! Continue on to the [Next Step](#) to get started.

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## Connecting to UltronScan

[UltronScan](#) is the block explorer for the [UltronGlow](#) network, additionally providing a marketplace where users can provide and rent storage from other UltronGlow users.

This guide provides instructions to connect the Docker container configured in the previous step to UltronScan, which will allow you to rent your surplus storage to other users of the network.

### Prerequisites

- Complete the [Setting up your device](#) tutorial.

### Steps

#### 1. Get the IP address of your Docker Container

When connecting your Docker container to UltronScan, you will need the IP address of the container for the login operation.

1. Open the terminal application of your choice (in this example, we use Windows Terminal).
2. Type `ipconfig /all` in the terminal and press the **Enter** key.
3. After execution, ipconfig lists all network adapters, both physical and virtual, that are present in your system. Scroll down to the virtual network adapter associated with your Docker container image (in this example, the `Ethernet adapter vEthernet (WSL)`).
4. Copy the IP address listed, and save it for use in upcoming steps.

```

Windows PowerShell - 

DHCP Server . . . . . : 192.168.4.1
DHCPv6 IAID . . . . . : 84437701
DHCPv6 Client DUID. . . . . : 00-01-00-01-2B-66-46-82-08-6A-C5-BE-34-8F
DNS Servers . . . . . : 192.168.4.1
NetBIOS over Tcpip. . . . . : Enabled

Ethernet adapter Bluetooth Network Connection:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . .
Description . . . . . : Bluetooth Device (Personal Area Network)
Physical Address. . . . . : 08-6A-C5-BE-34-93
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes

Ethernet adapter vEthernet (WSL):

Connection-specific DNS Suffix . . .
Description . . . . . : Hyper-V Virtual Ethernet Adapter
Physical Address. . . . . : 00-15-5D-1E-47-F6
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::87c0:3a76:cf31:ad58%42(Preferred)
IPv4 Address. . . . . : 172.18.0.1(Preferred)
Subnet Mask . . . . . : 255.255.240.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 704648541
DHCPv6 Client DUID. . . . . : 00-01-00-01-2B-66-46-82-08-6A-C5-BE-34-8F
NetBIOS over Tcpip. . . . . : Enabled
PS C:\Users\jason>

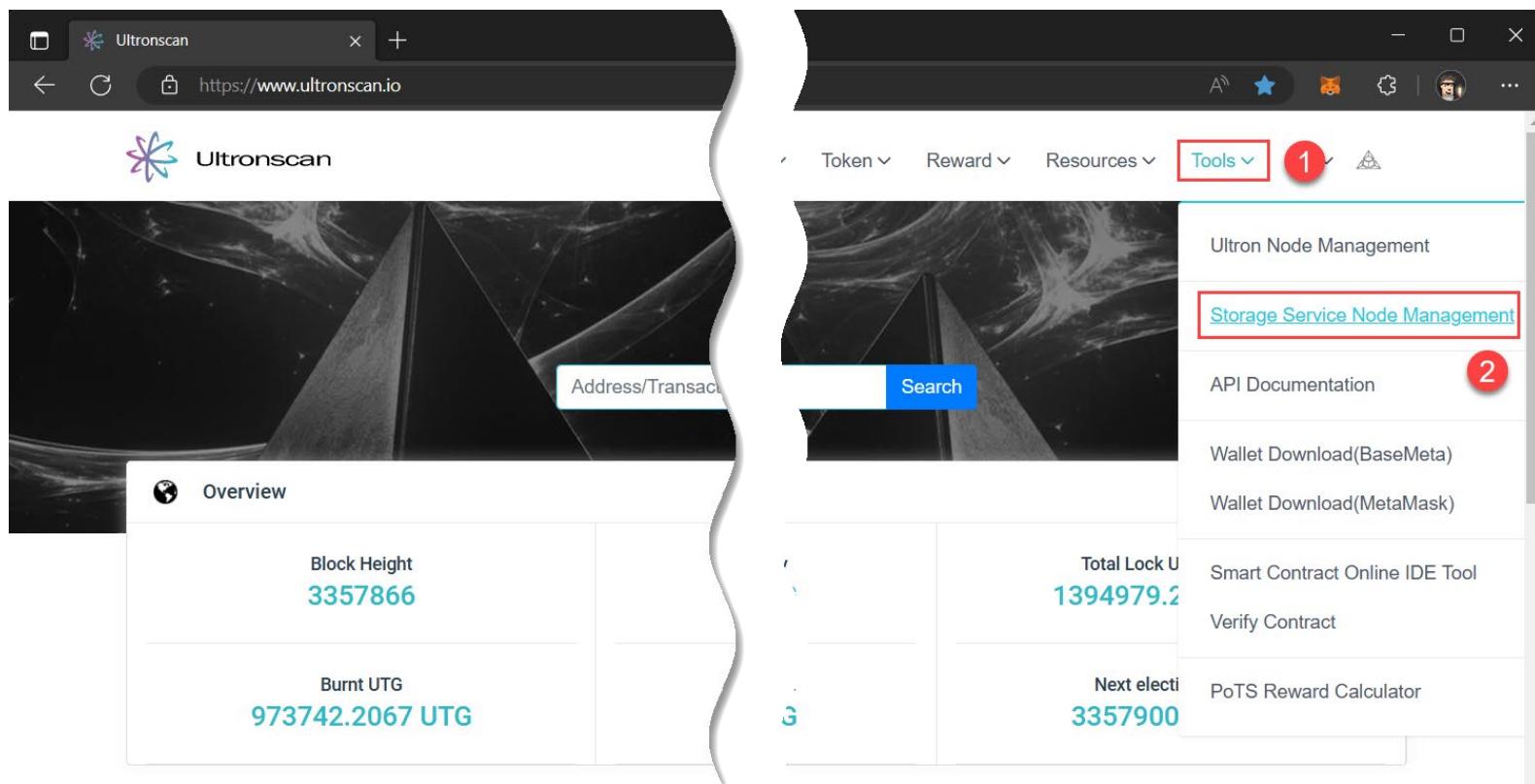
```

## 2. Connect MetaMask for Ultronscan

In order to perform actions in Ultronscan, you will need to connect your MetaMask wallet to the Ultronscan website. This will include logging into your Docker container from Ultronscan, using the IP address from Step 1, and allowing MetaMask to connect to the site.

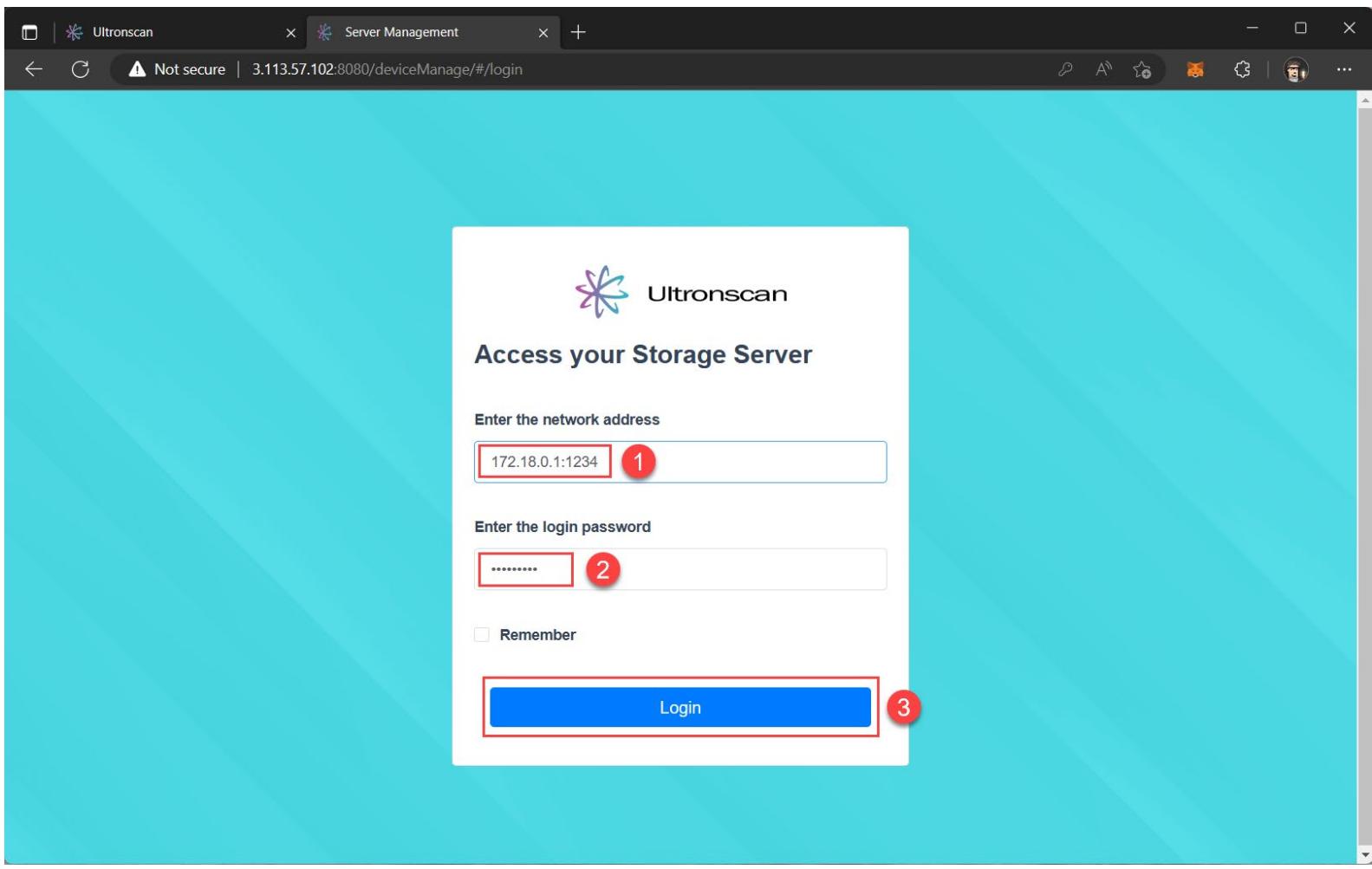
Navigate to [Ultronscan](#) with the same internet browser used to install MetaMask.

1. Click on **Tools** in top right corner of the Ultronscan website.
2. Click on **Storage Service Node Management**.



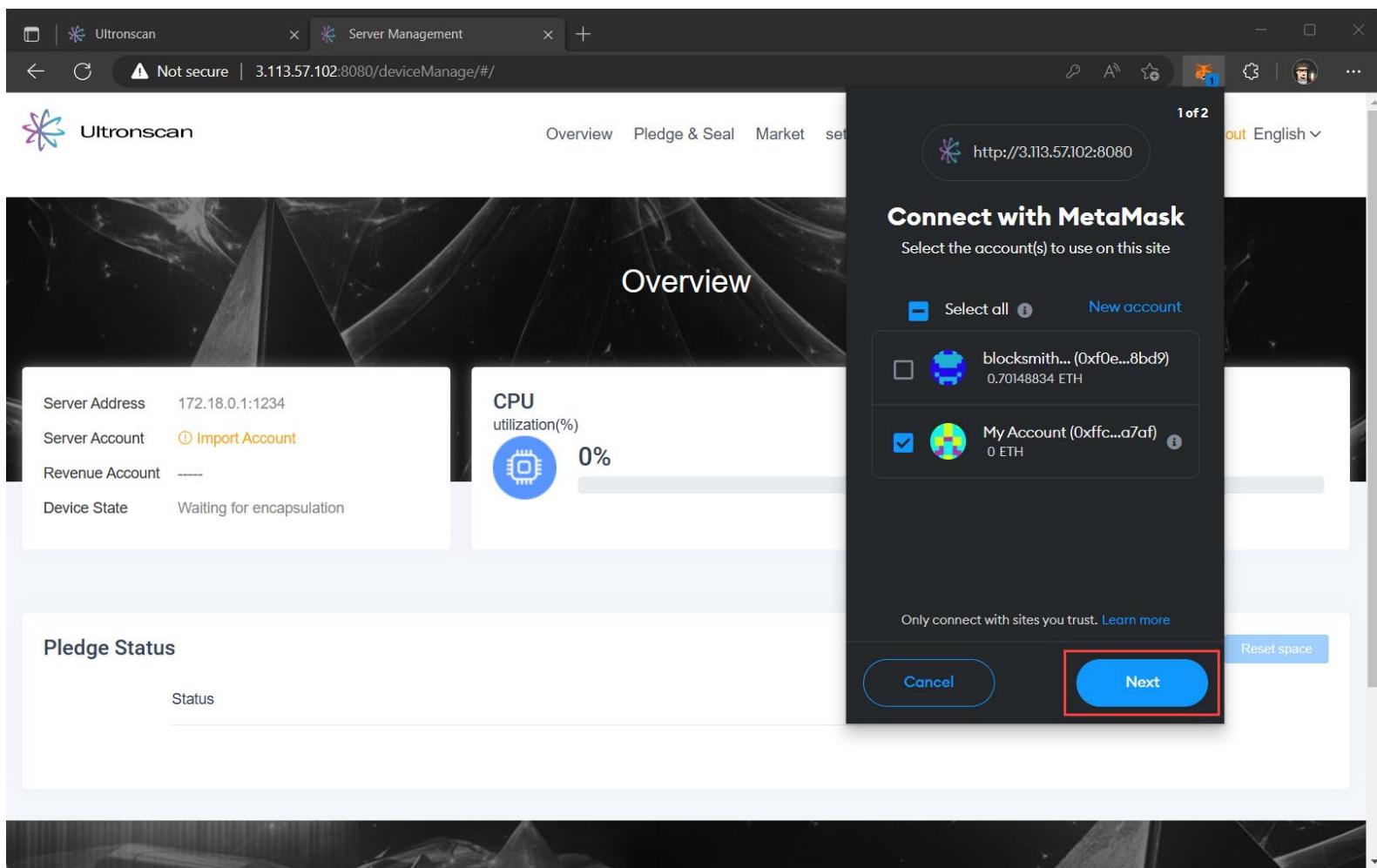
This will bring-up the login page to connect your Docker container to UltronScan.

1. In the **Enter the network address** field, add the IP address you copied earlier in step 1 followed by :1234 (the port to access the server).
2. Don't change the default password (you can change it later).
3. Click the **Login** button.



This will bring up a MetaMask prompt asking you to connect your MetaMask account to this site. Once connected, your MetaMask account will be associated with your Docker container and UltronScan.

1. Ensure you are connecting to the right account, and click the **Next** button.
2. Click the **Connect** button on the following MetaMask prompt.



There will be 2 following prompts from MetaMask which will add the UltronGlow network to MetaMask, and switch you over to the new network to proceed with the following steps.

## 2. Configure your accounts on your server

Now that UltronScan is connected to your Docker Container (your server) through MetaMask, you can now configure your server account for receiving UTG rewards.

1. In the Server Management page, click on **Import Account**.

The screenshot shows the UltronScan web interface. At the top, there are tabs for 'UltronScan' and 'Server Management'. The URL is 'Not secure | 3.113.57.102:8080/deviceManage/#/'. The main header has links for 'Overview', 'Pledge & Seal', 'Market', 'settings', 'logs', and a user ID 'uxffc4ce57c...582ea9ba7af'. There are buttons for 'Change Password', 'Log out', and language selection ('English').

**Overview**

Server Address: 172.18.0.1:1234  
 Server Account: [Import Account](#) (highlighted with a red box)  
 Revenue Account: -----  
 Device State: Waiting for encapsulation

**CPU**  
 utilization(%) 0% (with a blue icon)

**Memory**  
 utilization(%) 18% (with a green icon)

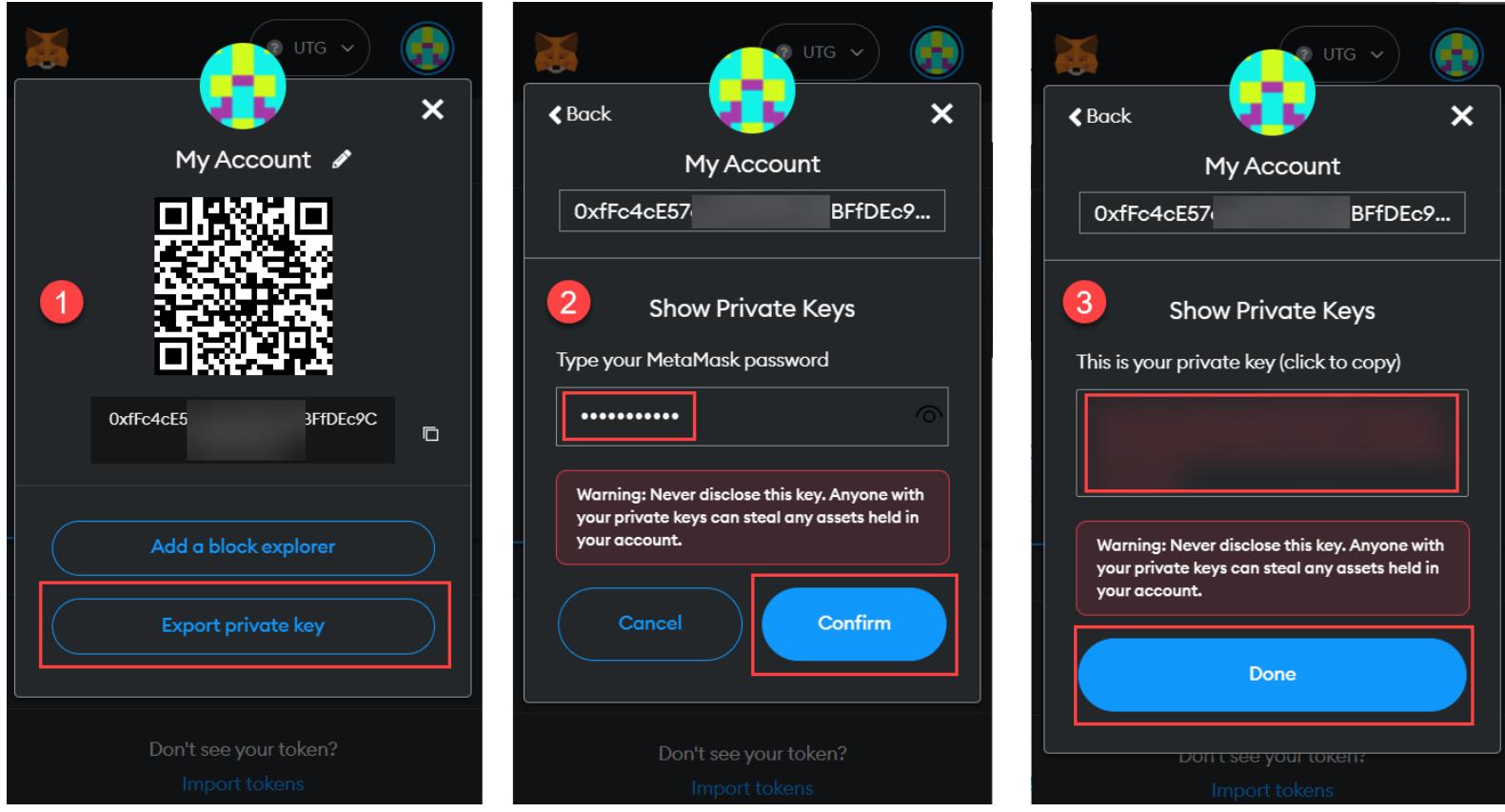
The following page will ask for the private key to your MetaMask account to bind to your server. Don't worry! This hosted page is on your Docker Container and never leaves your server, so it's safe.

1. Open the MetaMask extension in your browser and click **Account details**.

The screenshot shows the MetaMask extension in a browser window. The title bar says 'Not secure | 3.113.57.102:8080/deviceManage/#/upDev'. The sidebar on the right shows 'Connected' status, 94 accounts, and a balance of 94.0181 UTG. A context menu is open over one of the account entries, with 'Account details' highlighted with a red box. The main content area shows an 'Import Account' form with a text input field for 'Paste your private key string here:' and a 'Private key' tab selected. Below the input field is a note: 'Import private key, you can seal, pledge and other operations!' followed by a large blue 'Import' button.

Three consecutive MetaMask prompts will appear.

1. Click **Export private key** in the first prompt.
2. In the second prompt, enter your MetaMask password and click **Confirm**.
3. Copy your private key to your clipboard, then click the **Done** button.



Paste your private key from the clipboard into the **Private key** field of the website.

#### CAUTION

You should **never** share your private key with others or posting on public websites. In this step, the server you're connecting to in your browser is a website hosted by your Docker container. As such, your private key is not leaving your local network and is safe.

Paste your private key string here: [Create Account](#)

Private key Address

Import

- Import private key, you can seal, pledge and other operations!

Once completed, you'll see that your the `Server` account in the UltronScan website is associated with your MetaMask account.

Lastly, you need to bind a revenue account associated with where rental revenue will be received. Click on **Bind Revenue Account**.

Server Address	172.18.0.1:1234
Server Account	<a href="#">uxffc4ce57c...582ea9ba7af</a>
Revenue Account	<a href="#">Bind Revenue Account</a>
Device State	Waiting for encapsulation

CPU utilization(%) 0%

Memory utilization(%) 19%

Your revenue account can be the same as your server account, or you can choose a different account if you like.

1. To use your server account as your revenue account, copy the address from the **Server Account** field and paste it into the **Revenue Account** field.
2. Click the **Binding** button. A MetaMask prompt will appear to process the transaction. Approve the transaction and you're done!

The screenshot shows a web browser window titled "Server Management" with the URL "3.113.57.102:8080/deviceManage/#/bindaddr". The page has a dark background with a starry nebula pattern. At the top, there's a navigation bar with links for "Overview", "Pledge & Seal", "Market", "settings", "logs", and a user ID "uxffc4ce57c...582ea9ba7af". On the right, there are "Change Password" and "Log out" buttons. Below the navigation, the main content area is titled "Bind Revenue Account". It contains two input fields: "Server Account" with the value "uxffc4ce57cef..." and "Revenue Account" with the value "582ea9ba7af". Both input fields have a red border around them. At the bottom is a blue button labeled "Binding".

## Next Steps

Congratulations, you've successfully connected your server to MetaMask, configured your accounts, and are now ready to start renting storage! Continue on to the [Next Step](#) to prepare your surplus storage for rental on the [UltronGlow Storage Market](#).

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## Prepare & Rent Storage

In order to rent storage on the [UltronGlow Storage Market](#), you will need to reserve a portion of your disk (seal) for rental. Sealing sets apart the amount of storage you select that will be encrypted when rented, and only accessible to the renter. This ensures the renter's data is private and that you don't accidentally delete it.

This guide provides instructions to seal a portion of your storage for rental on the Storage Market.

## Prerequisites

- Complete the [Connecting to UltronScan](#) tutorial.

## Steps

### 1. Seal storage for rental

Navigate to [UltronScan](#)

1. Click on **Tools**.
2. Click on **Storage Service Node Management**.

TIP

If you forgot how to retrieve the IP address of your server, refer to **Step 1** in the [Connect to UltronScan](#) tutorial.

In the **Server Management** tab in your browser that pops-up, start the sealing process by:

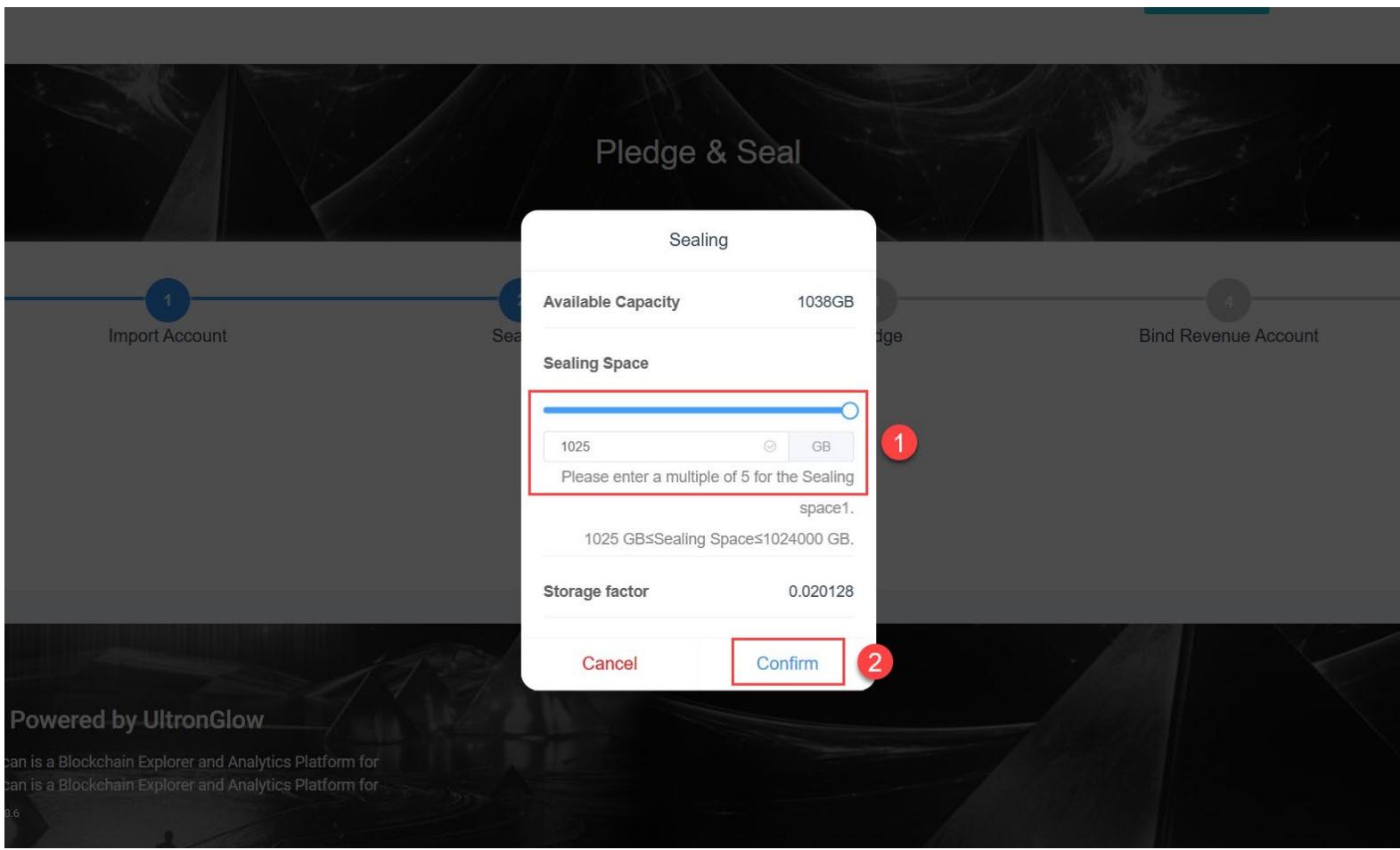
1. Click on **Pledge & Seal** in the top navigation bar of the site.
2. Click on the **Start Sealing** button.

The screenshot shows the UltronGlow Server Management interface. The top navigation bar includes tabs for 'Overview', 'Pledge & Seal' (which is highlighted with a red border and a red '1' circle), 'settings', 'logs', and user information ('uxffc4ce57c...582ea9ba7af'). Other icons include 'Change Password', 'Log out', and language selection ('English').

The main content area has a dark background with a futuristic, glowing network-like pattern. The title 'Pledge & Seal' is centered at the top. Below it is a horizontal progress bar divided into four segments, each with a circular icon containing a number (1, 2, 3, 4) and a corresponding step name: 'Import Account', 'Sealing', 'Pledge', and 'Bind Revenue Account'. The 'Sealing' segment (containing '2') is highlighted with a red border and a red '2' circle.

Below the progress bar, the device ID 'uxffc4ce57c...582ea9ba7af' is displayed. The 'Device State' is shown as 'Not Sealed'. A prominent teal button labeled 'Start Sealing' is centered below the state information, also enclosed in a red border and marked with a red '2' circle.

1. Determine the amount of storage you want seal and make available for rent.
2. Click the **Confirm** button to start the sealing process.



## INFO

Depending on how much storage you chose to seal, the sealing process can take a long time. 1 TB of storage sealing can take up to 2 hours on a computer with a fast SSD, or longer if using a HDD.

## CAUTION

During the sealing process, be sure not to reboot or turn off your server as this will cause the process to start over again once the server has rebooted.

## 2. Set Rental Terms and Pledge

Once completed, click the **Next** button on Server Management page, which will then bring up a dialog asking you to configure your bandwidth and rental settings.

1. Run a speed test to determine how much uplink bandwidth you have available.

## CAUTION

The UltronGlow network will periodically test to see if the bandwidth you pledged is available. Be sure to set the limit to an amount that factors in your daily usage.

2. Set a rental price in **SRT** that you will charge for your storage rental. It's helpful to consider what others are charging to determine a competitive rate.

3. Click the **Pledge** button to proceed to the next step.

Storage server account: uxfffc4ce5...2ea9ba7af

Pledge space: 10020GB

Storage factor: 0.319145

**Server uplink bandwidth**  
20 Mbps  
Please fill in truthfully. If you fail to pass the daily verification, you will be slashed

**Bandwidth pledge coefficient**: 1.7573

**Set rental price**: 0.00016~0.0016 SRT / 1GB·days

**Estimated pledge fee**: 8.5976 UTG

**Pledge**

A MetaMask prompt will appear asking you to confirm your transaction on the UltronGlow network.

Click the **Confirm** button in MetaMask, and congratulations - your storage is now rented on the UltronScan Storage Marketplace.

The screenshot shows a web interface for managing storage servers. On the left, a table provides details about a selected storage server account:

Storage server account	uxffc4ce5...2ea9ba7af
Pledge space	10020GB
Storage factor	0.319145
Serv	Storage pledge
20	
2023-02-13 16:44:59	
Please verify	<b>Please Confirm !</b>
Ban	<i>State: Trading in Progress</i>
coeff	7573
Set rental price 0.000016~0.0016	
0.00016	SRT / 1GB· days
<input type="range"/>	
Estimated pledge fee	8.5976 UTG
<b>Pledge</b>	

A modal dialog box is overlaid on the page, prompting for confirmation:

**Storage pledge**

Please Confirm !

State: *Trading in Progress*

**Total** **0.00380443 UTG**

**Amount + gas fee** **Max amount: 0.00380443 UTG**

**Reject** **Confirm**

The "Confirm" button is highlighted with a red box.

Once the transaction has confirmed on the network (which may take a minute or two), **Overview**, found on the top navigation bar, is where you can view your Pledge is committed, the terms of the rental, and rental status of your space.

The screenshot shows the UltronGlow storage provider interface. At the top, there are tabs for Server Management, Ultronscan, and a warning message: "Not secure | 3.113.57.102:8080/deviceManage/#/". Below the tabs, the Ultronscan logo is displayed, followed by navigation links: Overview (highlighted with a red border), Pledge & Seal, Market, settings, logs, and user information (uxffc4ce57c...582ea9ba7af). There are also buttons for Change Password, Log out, and English language selection.

The main content area has a dark background with a futuristic, glowing pattern. It features three cards: "Server Address" (192.168.7.252:1234), "CPU utilization(%)" (15%, represented by a blue bar chart icon), and "Memory utilization(%)" (10%, represented by a green bar chart icon). Below these cards, the "Device State" is listed as "Normal service" with a "Unbind" button.

A large red box highlights the "Pledge Status" section. This section contains a table with the following data:

Pledged	
Status	Pledged
Pledge Address	uxffc4ce57ce697...ec9c582ea9ba7af
Pledge amount	8.59767861 UTG
Pledge Capacity	10020 GB
Server uplink ban...	20 Mbps
Space already re...	0 GB
Rentable space	10020 GB
Rental Price	0.00016 SRT/1GB· Day
Rental Revenue	-

## Next Steps

Congratulations, you've successfully sealed and rented your storage on the [UltronGlow Storage Market](#)!

Continue on to the [Next Step](#) to see if someone has rented your storage and configuring your server for them access and store files!

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## Finalize Rental Agreement

After you have provided storage on the [UltronGlow Storage Market](#), someone will rent your storage space. Once they accept the rental terms, you must finalize your pledge for the rental agreement and configure a link for the rentee to be able to access their rented storage space on your server.

This guide provides instructions for how to finalize the rental agreement and configuring the link for the rentee.

## Prerequisites

- Complete the [Rent Storage on the UltronGlow Storage Marketplace](#) tutorial.

## Steps

### 1. Check if storage is rented

Navigate to [UltronScan](#) and log into your storage server.

TIP

If you forgot how to login to your storage server on UltronScan, refer to [Connecting to UltronScan](#) for details

1. Click on **Market**.
2. Check in the lower right-hand of the page under **Operation**. If the status is listed as **Handle** with an "!" next to it, click on it to confirm your pledge.

If the status does show **Handle**, then wait for someone to rent your storage and come back and try again.

The screenshot shows the UltronGlow Server Management interface with the 'Market' tab selected. The top navigation bar includes links for Overview, Pledge & Seal, Market (highlighted with a red box), settings, logs, Connect Wallet, Change Password, Log out, and English language selection.

**Market Statistics:**

- Pledge space: 10020 GB
- Available Space: 8995 GB
- Rental Price: 0.000016 SRT/1GB·Day
- Pledge Time: 2023-02-13 16:47:00

**RENTAL LIST:**

HASH	Rental Address	State	Rented Space	Rental Price	Rental duration	Application Time	Renewal request	Operation
ux39030fee53...4da0a2f06a2b	uxbe4f3e005f...2a6637691d72	Renting	1025 GB	0.000016 SRT/1GB· Day	30 days	2023-02-21 20:33:00		<a href="#">Handle</a> <span style="color: orange;">!</span> <a href="#">View details</a>

A message at the top right of the rental list area says: "Data synchronization is in progress, please wait patiently....!"

You will be asked to confirm your pledge.

## 2. Configure port-forwarding on your router

You will now need to configure your router to enable the rentee to access your server to store their files. While each router manufacturer has different user experiences for configuring port-forwarding, the below steps will help you in general to determine the settings needed.

1. Determine the IP address of your server.
2. In your router's configuration, set-up port-forwarding to forward the IP address of your server to port 8080.
3. Enable DDNS (Dynamic DNS) to provide a unique hostname for the public IP address of your router.

In the below example, we are using an Eero mesh Wi-Fi router. In the application to access the Eero router, the IP address is set for port-forwarding to port 8080.

2:15 📲 in 🌐 🌐 🌐 🌐 🌐 🌐 🌐 🌐 🌐 🌐 🌐 🌐 🌐

87%

# IP Reservation

SAVE

Nickname  
ZenCoveNAS

IP address  
192.168

MAC address  
90:09:d0

## Port Forwarding

UTG  
8080 (Enabled)



Open a port



Delete reservation

Home

Activity

Discover

Settings



97%

## DDNS



Access your network and devices remotely with an eero domain name rather than using your IP address.

DDNS



Domain

.eero.online

External IP Address

66.235.

Port Forwarding

 Home Activity Discover Settings

### 3. Set URL for rentee access

You will see that since you completed your pledge in **Step 1**, that the **Operation** status has changed **Handle to Configure** with an "!" next to it, indicating you need to set the URL for your rentee.

### 1. Click on **Configure**

The screenshot shows the Ultronscan Server Management interface. At the top, there's a navigation bar with tabs like Overview, Pledge & Seal, Market, settings, logs, Connect Wallet, Change Password, Log out, and English. Below the navigation bar, the word "Market" is centered on a dark background with abstract white fractal patterns. Underneath, there are four boxes displaying resource statistics: Pledge space (10020 GB), Available Space (8995 GB), Rental Price (0.000016 SRT/1GB·Day), and Pledge Time (2023-02-13 16:47:00). Below these stats is a table titled "RENTAL LIST". The table has columns: HASH, Rental Address, State, Rented Space, Rental Price, Rental duration, Application Time, Renewal request, and Operation. A single row is shown with values: ux39030fee53...4da0a2f06a2b, uxbe4f3e005f...2a6637691d72, Renting, 1025 GB, 0.000016 SRT/1GB·Day, 30 days, 2023-02-21 20:33:00, and a red-bordered "Configure" button with a gear icon and a yellow exclamation mark. The "View details" link is located below the "Configure" button. A note at the top right of the table says "Data synchronization is in progress, please wait patiently....!"

HASH	Rental Address	State	Rented Space	Rental Price	Rental duration	Application Time	Renewal request	Operation
ux39030fee53...4da0a2f06a2b	uxbe4f3e005f...2a6637691d72	Renting	1025 GB	0.000016 SRT/1GB· Day	30 days	2023-02-21 20:33:00		<a href="#">Configure</a> <span style="color: yellow;">!</span> <a href="#">View details</a>

In the **Upload link** page, you are given an option to share an image of the URL address, or to provide a textlink directly. In this example, we will use the textlink.

### 1. Enter the URL link of the address based on the steps you completed in **Step 2** earlier.

#### NOTE

The format of the link will be `http://<DDNS Hostname>:8080/home`

UltronScan

Overview Pledge & Seal Market settings logs uffc4ce57c...582ea9ba7af Change Password Log out English

Upload link

HASH ux39030fee... 34da0a2f06a2b

Click Upload

http://.eero.online:8080/home

Save

Click the **Save** button, and you're done!

## Next Steps

Congratulations, you've successfully configured the storage for your rentee and they are now able to access your server to store their files securely.

Continue on to the [Next Step](#) to rent other's storage on the Storage Market where you can store your data for backup or other purposes!

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## Ultronscan cannot connect

If UltronScan is not able to connect to your server, there can be a few problems that are easy to check and address. The below is an example of when UltronScan cannot connect to your server - specifically that the **Server Account** and **Revenue Account** fields will be blank, and periodically in the upper right-hand corner of the screen, a **Connection failed** error message will appear.

The screenshot shows the Ultronscan interface with a red box highlighting the 'Server Address' field containing '198.18.129.37:1234'. Another red box highlights the 'Server Account' and 'Revenue Account' fields, both of which are empty and show a 'Import Account' link. In the top right corner, two 'Connection failed' notifications are displayed in a red-bordered box. The main content area shows CPU utilization at 3% and Memory utilization at 22%.

### Tip 1 - Check IP Address

The IP address of your Docker container may change due to intermittent connectivity, or shutting down and restarting either your Docker container or your server. To address this, try the following:

1. Log out of UltronScan.
2. Verify the IP address of your Docker container.

**TIP**

If you forgot how to retrieve the IP address of your server, refer to **Step 1** in the [Connect to Ultronscan](#) tutorial.

3. Log back into UltronScan.

## Tip 2 - Check if container is running

Your Docker container image may not be configured to auto-restart in the event that it shuts down unexpectedly. If your Docker container is not running, UltronScan cannot connect to it. To address this, try the following:

1. Open Docker Desktop.
2. Open the **Container** section.
3. Ensure the container is not stopped by checking the **Status** column. If it is stopped (Exited), then click the start icon in the **Actions** column.
4. Once the Docker container is in a running state, try logging into UltronScan again.

The screenshot shows the Docker Desktop interface. On the left, there's a sidebar with icons for Containers, Images, Volumes, Dev Environments (BETA), Extensions, and Add Extensions. The main area is titled 'Containers' with a 'Give feedback' link. It contains a brief description: 'A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another.' Below this is a search bar and a toggle switch for 'Only show running containers'. The main table lists containers with columns: Name, Image, Status, Port(s), Started, and Actions. One row is selected, showing 'UTG\_Storage\_Provider' with image 'gordie07b/utg-ss:latest', status 'Exited (137)', ports '1234:1234' and '8080:8080', and an 'Actions' button. The 'Status' cell for the selected container is highlighted with a red border.

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API

# API

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# Get Storage Pledge Information

## Rate Limits

API calls are limited to 4 calls per minute

## Details

Item	Description
Request	http GET/POST
Encoding Format	UTF-8
URL	<a href="https://api.ultronscan.io/third/getRevenue?address=ux...">https://api.ultronscan.io/third/getRevenue?address=ux...</a>

## Request URL parameters

address: "ux...", //Reward Address

## JSON response body

```
{
  "result": {
    "address": "ux...", //Reward Address
    "stratio": 0.8, //Storage Factor
    "storages": [ //Storage List
      {
        "address": "ux...", //Storage node address
        "blocknumber": 1000, //Pledge height
        "capacity": 10995116277800, //Storage capacity (unit: B)
        "bandwidth": 1024, //Upload bandwidth
        "bwratio": 1.5, //Bandwidth reward factor
        "pledgeStatus": 0, //Pledge status 0: normal 1: abnormal
        "vaildNumber": 1000, //Storage the last verified height
        "succNumber": 1000, //Storage the height of the last authentication success
        "pledgeAmount": 30000000000000, //pledgeAmount
        "leases": [ //leases list
          {
            "hash": "ux...", //rent hash
            "address": "ux...", //rental address
            "blocknumber": 2000, //Rental pledge height
            "leaseStatus": 1, //leaseStatus 0: normal 1: abnormal
            "capacity": 1100585369600, //Storage capacity (unit: B)
            "price": 1000000000000000, //rental price
            "duration": 30, //rental duration (unit: day)
            "vaildNumber": 1000, //Lease Last Verified Altitude
            "succNumber": 1000, //Height of the last successful authentication of the lease
            "pledgeAmount": 30000000000000, //pledgeAmount
          }
        ]
      }
    ]
  }
}
```

```
        ],
    "message": "successful",
    "statusCode": 0
}
```

## NOTE

All amounts have 18 digits. For example, 100000000000000000, which in this case = 1 UTG.

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## Get Daily Reward Data

### Rate Limits

API calls are limited to 4 calls per minute

### Details

Item	Description
Request	http GET/POST
Encoding Format	UTF-8
URL	<a href="https://api.ultronscan.io/third/getRewards?address=ux....&amp;datetime=1651334400000">https://api.ultronscan.io/third/getRewards?address=ux....&amp;datetime=1651334400000</a>

### Request URL parameters

```
address: "ux...", //Reward Address
startblock: 10000, //The starting block of the query
endblock: 20000, //The end block of the query
type: "/1/2, //Reward type, optional 1: PoSR reward 2: PoTS 3: PoS delegation reward
Empty: All rewards for the address
```

### JSON response body

```
{
  "result": {
    "address": "ux...", //Reward Address
    "startblock": 10000, //Statistics start block
    "endblock": 20000, //Statistics end block
    "rewards": [ //Reward list
      {
        "address": "ux...", //Storage node address / PoS node address
        "blocknumber": 3300, //Lock height
        "rewardAmount": 1000000000000, //Total amount of the locked rewards record (including released and burnt amount in the locked position)
        "releaseAmount": 1234000000, //released Amount
        "burntAmount": 0, //burnt Amount
        "lockPeriod": 259200, //lockPeriod
        "releasePeriod": 1555200, //releasePeriod
        "releaseInterval": 8640, //releaseInterval
        "type": 1/2/3, //Reward type, optional 1: PoSR reward 2: PoTS 3: PoS delegation reward
      }
    ],
    "message": "successful",
    "statusCode": 0
  }
}
```

NOTE

The request parameter `datetime` is the date and time stamp (milliseconds), and returns the time stamp `starttime` and `endtime` of the statistical time range.

For example, the time stamp of 2022-05-01 00:00:00 (UTC+8) is 1651334400000. The returned statistical time is 2022-04-30 13:00:00 (1651294800000) - 2022-05-01 13:00:00 (1651381200000).

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## Get Total Revenue Data

### Rate Limits

API calls are limited to 4 calls per minute

### Details

Item	Description
Request	http GET/POST
Encoding Format	UTF-8
URL	<a href="https://api.ultronscan.io/third/getTotalRewards?address=ux...">https://api.ultronscan.io/third/getTotalRewards?address=ux...</a>

### Request URL parameters

```
address: "ux...", //reward address
type: ""/1/2/3, //Reward type, optional 1: PoSR reward 2: PoTS 3: POS delegation reward
Empty: All rewards for the address
```

### JSON response body

```
{
  "result": {
    "address": "ux...", //reward address
    "rewards": [ //reward list
      {
        "address": "ux...", //Storage node address / POS node address
        "rewardAmount": 100000000000000, //Total revenue reward amount (including burnt)
        "burntAmount": 0, //burntAmount
        "type": 1/2/3, //Reward type, optional 1: PoSR reward 2: PoTS 3: POS delegation reward
      }
    ],
    "message": "successful",
    "statusCode": 0
  }
}
```

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## Get Lock Release Data

### Rate Limits

API calls are limited to 4 calls per minute

### Details

Item	Description
Request	http GET/POST
Encoding Format	UTF-8
URL	<a href="https://api.ultronscan.io/third/getReleases?address=ux...">https://api.ultronscan.io/third/getReleases?address=ux...</a>

### Request URL parameters

```
address: "ux...", //reward address
type: ""/1/2, //Reward type, optional 1: PoSR reward 2: PoTS 3: POS delegation reward
Empty: All rewards for the address
```

### JSON response body

```
{
  "result": {
    "address": "ux...", //reward address
    "releases": [ //release list
      {
        "address": "ux...", //Storage node address / POS node address
        "releaseAmount": 1000000000000, //Total released amount (including burnt)
        "burntAmount": 0, //Total burnt Amount
        "type": 1/2/3, //Reward type, optional 1: PoSR reward 2: PoTS 3: POS delegation reward
      }
    ],
    "message": "successful",
    "statusCode": 0
  }
}
```

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## Unbundle Reward and Storage Node Address

### Rate Limits

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### Details

Item	Description
Request	http POST
Encoding Format	UTF-8
RPC	<a href="https://rpc.ultronglow.io/">https://rpc.ultronglow.io/</a>

### Parameter Format

UTG:1:Unbind:Ple:1

Among the parameters, only the storage node address is a variable. Assemble according to the specific storage node address. The unbinding operation can only be performed on the reward address.

### Java

```
public void testUnBind() throws Exception {
    String privatekey="a75267d9a92b26eb8802f89b55b7d23e5c49f9576023abd8749433bb1f34d8a3"; //Private key of reward address
    String from="UX6737b3c9C69eA389A7Ba14A027a3c393a79a7584"; //reward address
    String to="UX6737b3c9C69eA389A7Ba14A027a3c393a79a7584"; //reward address
    String dev="uxc3b6D21b5eAa047956206c314a2dDB2685805f98"; //storage node address
    String data=Numeric.toHexString(("UTG:1:Unbind:"+dev+":1")).getBytes(StandardCharsets.UTF_8));
    sendTrace(privatekey,from,to,data,web3j); //sendTrace
}
```

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# Get Absent

## Rate Limits

API calls are limited to 4 calls per minute

## Details

Item	Description
Request	http POST
Encoding Format	UTF-8
URL	<a href="https://api.ultronscan.io/platform/utg/getPunished">https://api.ultronscan.io/platform/utg/getPunished</a>

## Request URL parameters

```
{
  "current": 1, //Current page number
  "size": 10, //Articles per page
  "address": "ux...", //absentee address
  "blockNumber": 100, //absentee height
}
```

## JSON response body

```
{
  "result": {
    "records": [
      {
        "address": "ux...", //absentee address
        "blockNumber": 68381, //absentee height
        "fractions": 30, //penalty points
        "timeStamp": "2022-06-17 09:14:23" //time
      }
    ],
    "total": 13, //total number of absences
    "size": 10, //Articles per page
    "current": 1, //Current page number
    "pages": 2 //total pages
  },
  "message": "successful",
  "statusCode": 0
}
```

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## Convert UTG to SRT

### Rate Limits

API calls are limited to 4 calls per minute

### Details

Item	Description
Request	http POST
Encoding Format	UTF-8
RPC	<a href="https://rpc.ultronglow.io/">https://rpc.ultronglow.io/</a>

### Parameter Format

Every conversion of SRT needs to initiate a transaction. The transaction data parameter is UTG:1:Exch:SRT~~receiving address~~: convert quantity. See the below as an example:

```
ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502 convert 10 SRT for  
ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502
```

### Java

```
String privatekey="64b87ff4dfe358dfbf54d9eeec538d8ea9e7e96b3d77cc48a7b441fcfd793be7";
String from="ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502";
String to="ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502";
BigInteger num=new BigInteger("10"); //10 SRT
num=num.multiply(new BigInteger("10").pow(18));
String srtdev="ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502";
String data=Numeric.toHexString(("UTG:1:Exch:"+srtdev+":"+num.toString(16))).getBytes(StandardCharsets.UTF_8);
sendTrace(privatekey,from,to,data,null,web3j);
```

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## Get List of PoS Nodes

### Rate Limits

API calls are limited to 4 calls per minute

### Details

Item	Description
Request	http GET/POST
Encoding Format	UTF-8
URL	<a href="https://api.ultronscan.io/third/getPosNodes">https://api.ultronscan.io/third/getPosNodes</a>

### JSON response body

```
{
  "result": {
    "list": [{ //pos node list
      "node_address": "ux...", //pos node address
      "revenue_address": "ux...", //reward address
      "manage_address": "ux...", //admin address
      "node_type": 2, //Node type 1: Pre-candidate node 2: Ultron node
      "pledge_amount": 1609900000000000, //pledge amount
      "charge_rate": 100, //rate value percentage value
      "penalty_points": 0, //penalty points
      "active_height": 8400 //active height
    }]
  },
  "message": "successful",
  "statusCode": 0
}
```

NOTE

All amounts have 18 digits. For example, 1000000000000000000, which in this case = 1 UTG.

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# Get PoS Node Delegation Information

## Rate Limits

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## Details

Item	Description
Request	http GET/POST
Encoding Format	UTF-8
URL	<a href="https://api.ultronscan.io/third/getPosNodePledge?address=ux...">https://api.ultronscan.io/third/getPosNodePledge?address=ux...</a>

## Request URL parameters

address: "ux..."

## JSON response body

```
{
  "result": {
    "node_address": "ux...", //pos node address
    "revenue_address": "ux...", //reward address
    "manage_address": "ux...", //admin address
    "node_type": 2, //Node type 1: Pre-candidate node 2: Ultron node
    "pledge_amount": 1600000000000000, //pledge amount
    "charge_rate": 100, //rate value percentage value
    "penalty_points": 0, //penalty points
    "active_height": 8400, //active height
    "pledge_list": [
      {
        "pledge_address": "ux...", //Pledge Address
        "pledge_hash": "ux...", //Pledge Hash
        "pledge_status": 1, //Pledge Status 1-Staking 0-Staking Exit
        "pledge_amount": 1600000000000000, //pledge amount
        "pledge_number": 17382, //pledge height
        "unpledge_hash": null, //unpledge hash
        "unpledge_number": null //unpledge number
      }
    ],
    "message": "successful",
    "statusCode": 0
  }
}
```

NOTE

All amounts have 18 digits. For example, 1000000000000000000, which in this case = 1 UTG.

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# FAQ

Not finding answers to all of your questions? Hopefully our FAQ below helps point you in the right direction. If not, please answer in our Telegram and we'll get an answer for you ASAP (and update our docs!)

## How do I determine how much I can earn?

We've put together a fantastic [rewards calculator](#) that allows you to calculate the estimated rewards you can earn based on your rental terms.

## Where can I check the price of UTG?

You can UTG's current and historical pricing at [CoinMarketCap](#)

## How do I exchange UTG for SRT?

You can exchange UTG for SRT by accessing your [recharge record](#) on UltronScan after by logging in with the MetaMask account you configured for your storage server.

## What is the conversion rate of UTG to SRT?

The conversion rate of UTG to SRT fluctuates based on the UTG price, outlined in the [UltronGlow whitepaper](#). To check the current rate of conversion, go to the [paylog](#) section on UltronScan.

## What are the HW requirements to become a Storage Provider?

To become a Storage Provider on the UltronGlow networking, your computer must have the following capabilities:

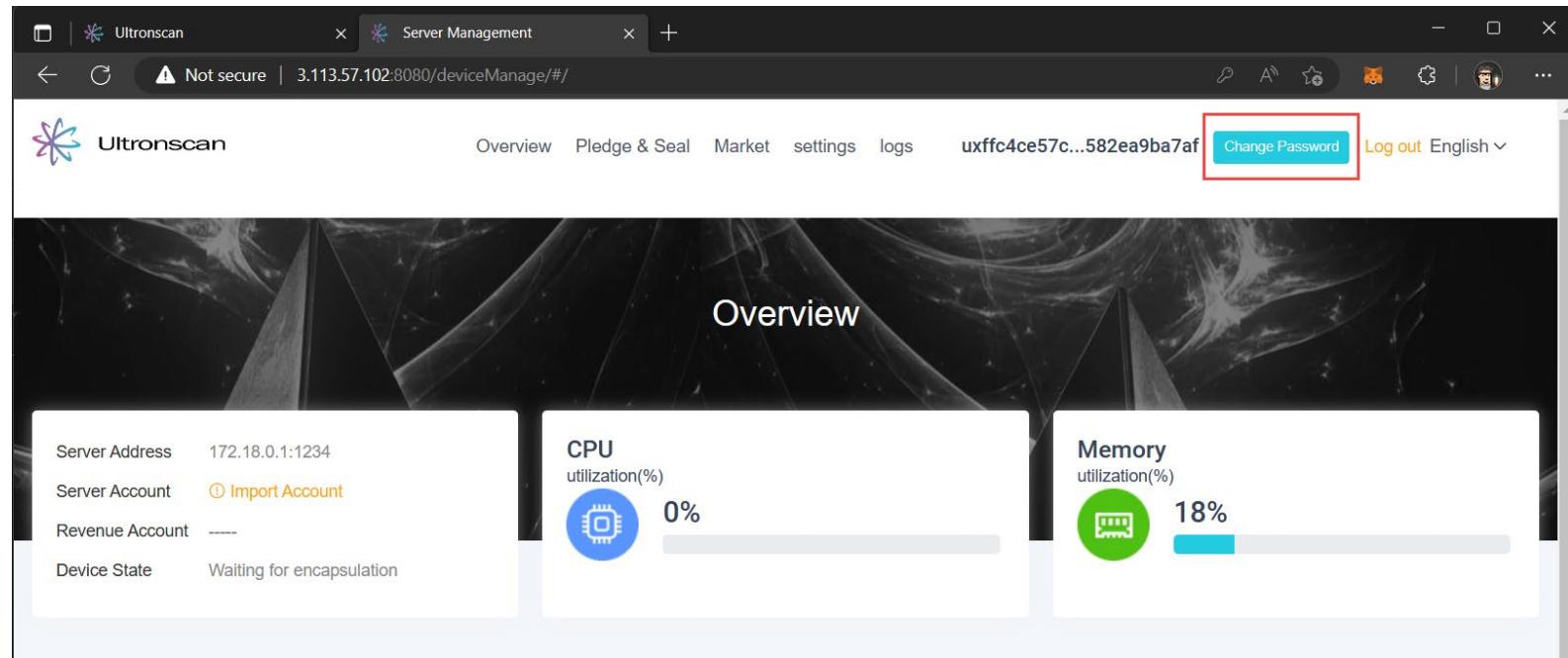
- A minimum of 1 TB of space available for rental.
- Sufficient system resources to host the UltronGlow Docker container.
- 500 MB of disk space for the utg-ss container image.
- 2 GB of RAM dedicated for the container to run.
- A minimum of 20 mbps uplink speed for your internet connection.

## I can't log in to my Storage Server on UltronScan?

Check [this](#) troubleshooting article for things you can try to address this.

## How do I change the login password on UltronScan?

After [logging into your storage server](#), click on the **Change Password** button in the upper-right corner of the Ultronscan website.



## How can I see what Storage Providers are available for rent?

See the [Ultronscan Storage Market](#) for a current list of Storage Providers offering storage for rent.

## How do I configure MetaMask for UltronGlow?

See our [quick guide](#) on how to connect MetaMask to the UltronGlow network.

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