

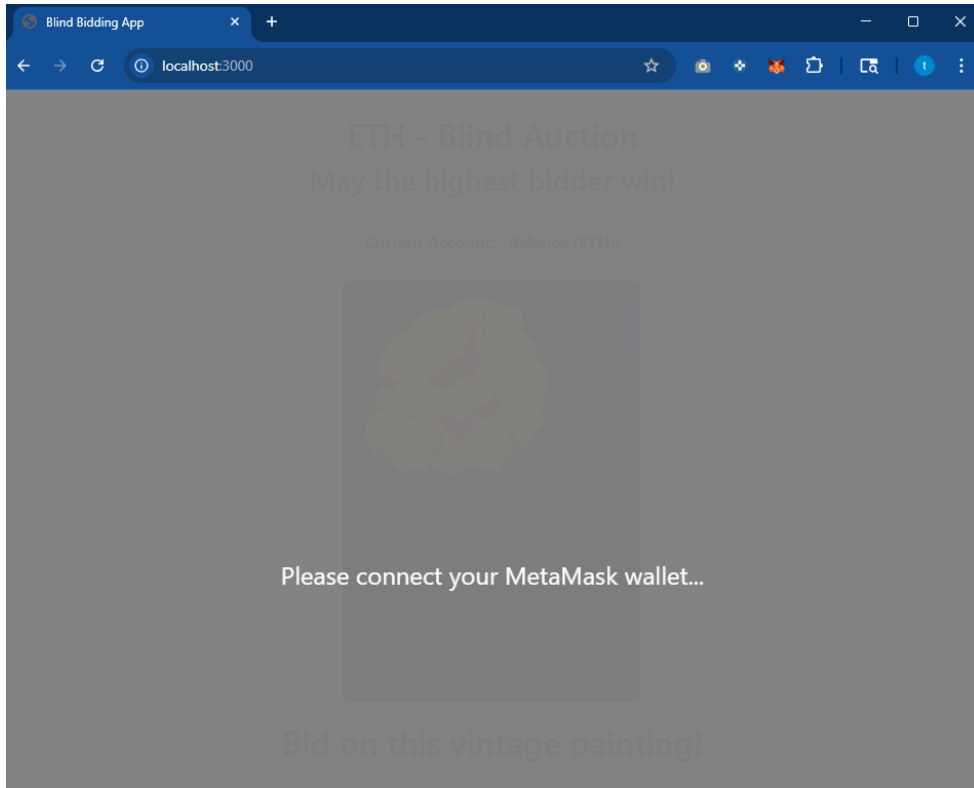
Interacting with the Blind Auction DApp as a Bidder

This document shows how to interact with the Blind Auction DApp as a bidder.

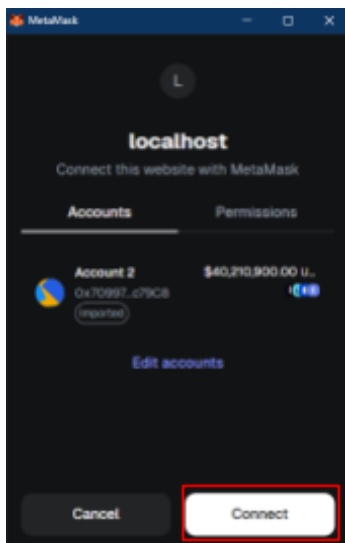
Prerequisites:

- MetaMask wallet installed and account created
- Sepolia testnet added and Sepolia test tokens collected

Step 1: Open the provided DApp link. You will see a page like this:



Step 2: MetaMask will open a popup asking to connect. Click *Connect* to proceed.




Step 3: After connecting, the page will display the following sections:

1. Section To Generate a blinded bid
2. Section To Enter the blinded bid with a deposit amount
3. Section Reveal your bid with the OTP

At the bottom, you'll also see the current phase (e.g., *Bidding not started*).

ETH - Blind Auction
May the highest bidder win!

Current Account: 0x70997970C51812dc3A010C7d01b50e0d17dc79C8, Balance (ETH): 10000.0 ETH



Bid on this vintage painting!

Generate your blinded bid:

Enter a secret OTP:

Your blinded bid (in bytes):

[Generate Blinded Bid](#)

Enter blinded bid:

Enter deposit amount:

[Bid](#)

Reveal your bid:

Enter the OTP:

[Reveal](#)

Current phase: Bidding Not Started

[Withdraw](#) [Show winning bid](#)

Section to generate a blinded bid

Section to enter the blinded Bid with a deposit amount

Section to reveal your bid with the OTP


Current Phase Of The Auction

Step 4: Generate a Blinded Bid

- In the “Generate Blinded Bid” section, enter your bid amount in ETH and a secret OTP password, then click *Generate Blinded Bid*.
- Remember your bid amount and OTP, as you’ll need them later in the reveal phase.

may the highest bidder win.

Current Account: 0x70997970C51812dc3A010C7d01b50e0d17dc79C8, Balance (ETH): 10000.0 ETH



Bid on this vintage painting!

Generate your blinded bid:

Enter a secret OTP:

Your blinded bid (in bytes):

Generate Blinded Bid

Enter blinded bid:


- Once clicked, the blinded bid will automatically appear in the “Your blinded bid (in bytes)” section and will also be pasted into the “Enter Blinded Bid” field.

ETH - Blind Auction

Make the highest bidder win!

Blinded bid generated successfully! You can now submit your bid.

Current Account: 0x70997970C51812dc3A010C7d01b50e0d17dc79C8, Balance (ETH): 10000.0 ETH



Bid on this vintage painting!

Generate your blinded bid:

Enter a secret OTP:

Your blinded bid (in bytes):

Generate Blinded Bid

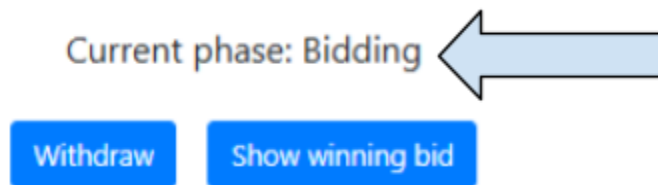
Enter blinded bid:

Enter deposit amount:

Bid

Step 7: Wait for the phase to change to *Bidding*.

You can check the current phase by refreshing the webpage; it is then displayed at the bottom of the window.



Step 8: Once the phase is *Bidding*, enter a deposit amount greater than your bid and

- click the *Bid* button to place your bid.
- Confirm the transaction in the MetaMask popup when prompted.

Note: The deposit must be higher to ensure commitment, and help hide your actual bid.

ETH - Blind Auction

May the highest bidder win!

Current Account: 0x70997970C51812dc3A010C7d01b50e0d17dc79C8, Balance (ETH): 10000.0 ETH



Bid on this vintage painting!

Generate your blinded bid:

37

Enter a secret OTP:

121212

Your blinded bid (in bytes):

0xce52cf19d3829e74fcfc5b256ad33fab29852c9b862a8f7c7fdcd7527d86c84e

Generate Blinded Bid

Enter blinded bid:

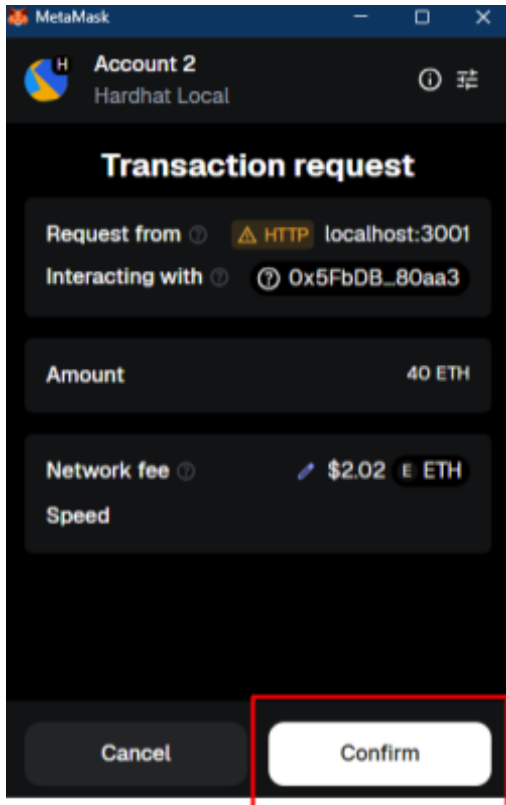
0xce52cf19d3829e74fcfc5b256ad33fab29852c9b862a8f7c7fdcd7527d86c84e

Enter deposit amount:

40

Bid





- After confirming, your balance at the top of the page will decrease, reflecting the deposit.

ETH - Blind Auction

May the highest bidder win!

Current Account: 0x70997970C51812dc3A010C7d01b50e0d17dc79C8, Balance (ETH): 9959.999881990858792715 ETH

Step 9: Reveal your bid

- Wait for the phase to change to *Reveal*.

Current phase: Reveal Started



Withdraw

Show winning bid

- Go to the *Reveal* section.
- Enter the same bid amount you initially placed.
- Enter your OTP.
- Click *Reveal* and confirm the transaction in the MetaMask popup.

Bid

Reveal your bid:

37

Enter the OTP:

121212

Reveal

Step 11: Check for the winner

- During the *Reveal* phase, click *Show Winning Bid* to display the auction winner.
- The page will show the winning bid and the corresponding account.

Current phase: Reveal Started

Withdraw

Show winning bid

Winner: 0x70997970C51812dc3A010C7d01b50e0d17dc79C8

Winning Bid: 37.0 ETH

Step 12: Withdraw non-winning bid

- Once the phase changes to *Done*, click the *Withdraw* button to reclaim the remaining amount of your non-winning bid.
- Confirm the transaction in the MetaMask popup when prompted

Current phase: Done ←

