# 569.https://stackoverflow.com/questions/69911990/how-to-transfer-an-erc721-token-across-networks

**T:**How to transfer an ERC721 token across networks

**Q:**Please pardon me if this question sounds dumb, but I am a little new to this concept and there are not many resources out there I could find. Thanks.  
  
Suppose I have created a ERC721 smart contract and used that to mint an NFT token. Now I want to be able to transfer that token from one network to another. I know to mint transfer the NFT to another user, the owner needs to approve the transaction. I have already tried this on rinkeby testnet. But I have no idea how to transfer from say rinkeby testnet to another network. Please see my mint and transfer functions below:  
  
function \_transfer( address \_from, address \_to, uint256 \_tokenId ) external payable { require(ownerOf(\_tokenId) == \_from); \_owners[\_tokenId] = \_to; \_balances[\_from]--; \_balances[\_to]++; emit Transfer(\_from, \_to, \_tokenId); } function \_mint(address \_to, uint256 \_tokenId) internal uniqueToken(\_tokenId) notZeroAddress(\_to) { \_owners[\_tokenId] = \_to; \_balances[\_to] += 1; tokenExist[\_tokenId] = true; emit Transfer(address(0), msg.sender, \_tokenId); }  
  
WARN: THIS PARAGRAPH CONTAINS TAG: [CODE]   
  
I would appreciate any assistance. Thanks.

1 **Answer**

**A1:**Cross chain (network) transactions need a bridge. It can be a centralized one or it can be trust-less and decentralized one like near rainbow bridge.  
  
It's not a trivial problem to tackle.  
  
Following links might give you insight on how it should get done.  
  
near rainbow bridge  
  
avalanche bridge  
  
cosmos IBC  
  
polkadot bridges