

# Magic Wormhole: Cross-Network File Transfer Guide

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Secure File Transfer Across Networks - Like Magic! ✨

MADE WITH **MAGIC WORMHOLE**

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## What We're Building

Transfer files securely between computers on different networks using encrypted "wormholes" - no IP addresses or port forwarding needed!

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## Setup Process

### Prerequisites

- Ubuntu/Debian Linux
- Terminal access
- Internet connection on both machines

### Installation

On **both** systems, open terminal and run:

```
sudo apt install magic-wormhole
```

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## 📤 Sending Files

► ⌂ Click to expand sender instructions

1. Navigate to your file:

```
cd ~
```

2. Create the wormhole:

```
wormhole send file.sh
```

3. Note the generated code:

```
Wormhole code is: 9-night-bird
```

💡 **Keep this terminal open until transfer completes!**

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## 📥 Receiving Files

► ⌂ Click to expand receiver instructions

1. Enter the wormhole:

```
wormhole receive 9-night-bird
```

2. Verify the transfer:

```
ls
```

3. Make executable (if needed):

```
chmod +x file.sh  
./file.sh
```

## 🔒 Security Features

Feature	Description
🔒 Encryption	End-to-end encrypted transfer
🎲 One-time	Codes work only once
🌐 NAT friendly	Works through firewalls
🚫 No storage	Files aren't stored on servers

## 📸 Real-World Example

### 💻 Receiver's View

```
ujjwaltyagi@ujjwaltyagi:~/wormhole-send$ cd ..  
ujjwaltyagi@ujjwaltyagi:~$ mkdir ~/wormhole-receive  
ujjwaltyagi@ujjwaltyagi:~$ cd ~/wormhole-receive  
ujjwaltyagi@ujjwaltyagi:~/wormhole-receive$ wormhole receive 14-decadence-kiwi  
Receiving file (26 Bytes) into: test.txt  
ok? (Y/n): y  
Receiving (->tcp:192.168.31.100:41561)..  
100%|██████████| 26.0/26.0 [00:00<00:00, 98.0B/s]  
Received file written to test.txt  
ujjwaltyagi@ujjwaltyagi:~/wormhole-receive$ ls  
test.txt  
ujjwaltyagi@ujjwaltyagi:~/wormhole-receive$ cat test.txt  
cat: test.txt: No such file or directory  
ujjwaltyagi@ujjwaltyagi:~/wormhole-receive$ cat test.txt  
Testing wormhole transfer  
ujjwaltyagi@ujjwaltyagi:~/wormhole-receive$
```

### 💻 Sender's View

```

ujjwaltyagi@ujjwaltyagi:~$ mkdir ~/wormhole-send
ujjwaltyagi@ujjwaltyagi:~$ cd ~/wormhole-send
ujjwaltyagi@ujjwaltyagi:~/wormhole-send$ echo "Testing wormhole transfer" > test.txt
ujjwaltyagi@ujjwaltyagi:~/wormhole-send$ wormhole send test.txt
Sending 26 Bytes file named 'test.txt'
Wormhole code is: 14-decadence-kiwi
On the other computer, please run:

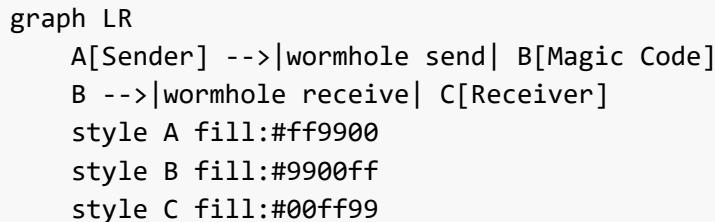
wormhole receive 14-decadence-kiwi

Sending (<-192.168.31.100:35536)...
100%|██████████| 26.0/26.0 [00:00<00:00, 26.1kB/s]
File sent.. waiting for confirmation
Confirmation received. Transfer complete.
ujjwaltyagi@ujjwaltyagi:~/wormhole-send$ ls
test.txt
ujjwaltyagi@ujjwaltyagi:~/wormhole-send$
```

*Creating and sharing the wormhole*

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## 🚀 Quick Reference



Action	Command	Notes
📤 Send	wormhole send file.sh	Generates code
📥 Receive	wormhole receive CODE	Uses generated code
☑ Verify	ls && chmod +x file.sh	Post-transfer steps

## 🎉 Happy File Transferring!

Made with 💖 by [Your Name]