

# PEER TO PEER CONNECTION

In its simplest form, a P2P network is created when two or more devices are connected and share resources without going through a separate server computer.

Moreover, a peer-to-peer network also serves the role of a permanent infrastructure that can connect up to a dozen computers in a small region amidst the conventional offline environment.

## Content Streaming

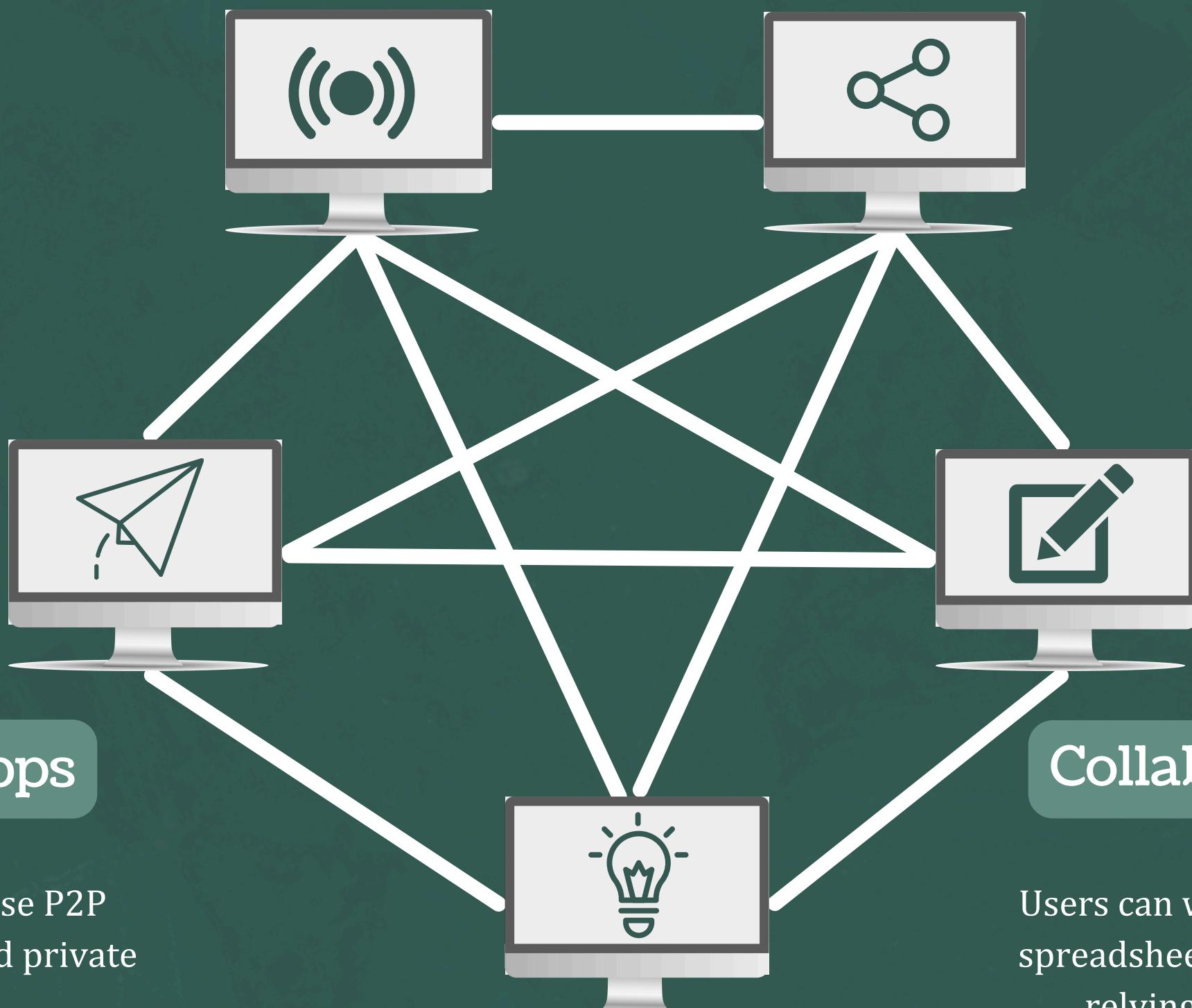
P2P is used by some content streaming services, such as live video streaming platforms.

This can help reduce the bandwidth and server infrastructure costs by allowing users to share the content they are streaming with nearby viewers.

## File Sharing

P2P file sharing allows people to share files with each other without the need of a centralized server.

This means that users can send even large files quickly without worrying about bandwidth and server capacity.



## Messaging Apps

WhatsApp and Signal, use P2P connections for secure and private communication.

Messages are transmitted directly between the sender and recipient, minimizing the risk of interception by third parties.

## Collaborative Editing

Users can work together on documents, spreadsheets, or presentations without relying on a centralized server.

Tools like Google Docs and collaborative code editing platforms often use P2P connections for this purpose.

## IoT Devices

In the Internet of Things (IoT) smart home devices like thermostats and light bulbs can communicate directly with each other to coordinate actions or share data, reducing the need for centralized control.

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