

Comprehensive Guide: Setting up Tailscale for Self- Hosting

Step 1: Install Tailscale Server

- Download the Tailscale server binary for your platform: <https://tailscale.com/downloads>
- Run the server with the following command: `./tailscaled --server-addr 0.0.0.0:8345`
- This starts the Tailscale server on port 8345 and listens on all interfaces.

Step 2: Obtain Public and Private Keys

- Generate a Tailscale network key pair: `./tailscaled --network-key-gen`
- Store the **public key** in a secure location for clients to connect.
- Keep the **private key** confidential.

Step 3: Configure Clients

- Download the Tailscale client binary for each device: <https://tailscale.com/downloads>
- Run the client with the following command: `./tailscaled --node-addr <public_ip>:8345 --network-key <network_key_public>`
- Replace `<public_ip>` with your Tailscale server's IP address and `<network_key_public>` with the public key obtained in Step 2.

Step 4: Join the Network

- Once clients are configured, they will join the Tailscale network and be able to communicate with each other over any network.

Step 5: Advanced Configuration (Optional)

- **Custom Network Name:** Use `--network-name <network_name>` to assign a specific name to your Tailscale network.
- **Remote Access:** Enable remote access by running `./tailscaled --remote-access` on the server. This allows non-Tailscale devices to connect to the network using a VPN.
- **Authentication:** Implement authentication using `./tailscaled --auth-file <path/to/auth_file>` on the server. This requires creating an authentication file containing

user credentials.

Tips:

- Use a static IP address for your Tailscale server to avoid connectivity issues.
- Configure firewall rules to allow traffic on port 8345 for Tailscale communication.
- Consider using a dedicated machine or container for the Tailscale server for better performance and security.

Further Resources:

- Tailscale Documentation: <https://tailscale.com/docs/>
- Tailscale Community: <https://tailscale.com/community>

Note: This guide provides a basic overview of the process. For more advanced configurations and specific scenarios, refer to the official Tailscale documentation and resources.

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