Aztec Node (Docker + Windows) Full Setup Checklist

1. System & Software Install

Install WSL2 (Ubuntu 22.04 LTS) on Windows.

Update Ubuntu:

```
sudo apt update && sudo apt upgrade -y
```

Install Required Tools:

```
sudo apt install curl wget git unzip build-essential jq -y
```

Install Docker:

```
curl -fsSL https://get.docker.com -o get-docker.sh
sudo sh get-docker.sh
```

Add yourself to docker group:

```
sudo usermod -aG docker $USER
```

> Then log out and log back in! (or restart PC)

2. Prepare Node Directory

Create main folder:

```
mkdir -p ~/nodes && cd ~/nodes
mkdir aztec && cd aztec
```


3. Get Your RPC & Wallet

Execution RPC: (Alchemy/Chainstack - Sepolia)

Consensus (Beacon) RPC: (Chainstack)

Wallet: (With some Sepolia ETH)

4. .env File Setup

In your ~/nodes/aztec directory:

```
nano .env
```

Paste this (update values as needed!):

```
ETHEREUM_HOSTS="YOUR_EXECUTION_RPC"
L1_CONSENSUS_HOST_URLS="YOUR_BEACON_RPC"
VALIDATOR_PRIVATE_KEY="YOUR_PRIVATE_KEY"
```

COINBASE="YOUR_WALLET_ADDRESS"

P2P_IP=YOUR_PUBLIC_IP   # Example: P2P_IP=103.127.56.38

LOG_LEVEL="info"

NO spaces before/after "="!

5. docker-compose.yml Setup

In ~/nodes/aztec directory:

  nano docker-compose.yml

Paste this:


```
version: "3.8"
services:
  sequencer:
    image: aztecprotocol/aztec:latest
    network_mode: host
    restart: unless-stopped
    env_file: [.env]
    entrypoint: >
        sh -c 'node --no-warnings /usr/src/yarn-project/aztec/dest/bin/index.js start --network alpha-testnet
--node-archiver --sequencer'
    ports:
      - "40400:40400/tcp"
      - "40400:40400/udp"
      - "8080:8080"
    volumes:
      - ./data:/data
```


6. Node Start, Stop & Monitor

Start Node:

  sudo docker compose up -d

See Live Logs:

  sudo docker compose logs -f --tail 50

Check if Node is Running:

  docker ps

Stop Node:

```
  sudo docker compose down
```

7. Check Block Number (API Method)

```
curl          -s          -X          POST          -H          'Content-Type:application/json'          -d
'{"jsonrpc":"2.0","method":"node_getL2TipS","params":[],"id":1}'          http://localhost:8080          |          jq          -r
".result.proven.number"
```
(If blank, wait 10-15min, then retry.)

8. After Restart/Shutdown

After PC restart, re-login Ubuntu and run:
```
  cd ~/nodes/aztec
  sudo docker compose up -d
```
That's it! Node will resume syncing.

Tips & Troubleshooting

 If docker ps gives "permission denied," run sudo usermod -aG docker $USER and restart/log out/in.
 .env file: Make sure no duplicate or typo lines for P2P_IP.
 If node fails, delete/recreate .env or docker-compose.yml as needed.
 For log or sync errors, share logs/screenshots for debugging!

Done! You're now 100% ready for all Aztec node, airdrop, and testnet missions.