Quick Start Guide for zkSync Node

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Prerequisites

- Installations Required:
-
    - [Dockeropen in new window](#)
-
    - [Docker Composeopen in new window](#)

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Setup Instructions

1. Clone the zkSync Era repository and navigate to the external node guide:
2. git clone https://github.com/matter-labs/zksync-era.git
3. cd zksync-era/docs/guides/external-node

# #

Running a zkSync Node Locally

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Starting the Node

- For a Mainnet instance:
- cd
- docker-compose-examplesdocker
- compose--file
- mainnet-external-node-docker-compose.yml up
- For a Testnet instance:
- cd
- docker-compose-examplesdocker
- compose--file
- testnet-external-node-docker-compose.yml up

# #

Resetting the Node State

- For a Mainnet instance:
- cd
- docker-compose-examplesdocker
- compose--file
- mainnet-external-node-docker-compose.yml down--volumes
- For a Testnet instance:
- cd
- docker-compose-examplesdocker
- compose--file
- testnet-external-node-docker-compose.yml down--volumes

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Monitoring Node Status

Access the local Grafana dashboard to see the node status after recovery.[Local Grafana Dashboardopen in new window](#).

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API Access

- HTTP JSON-RPC API:
- Port3060
- WebSocket API:
- Port3061

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Important Notes

- Initial Recovery:
- The node will recover from a snapshot on its first run, which may take up to 10 hours. During this period, the API server will not serve any requests.
- Historical Data:
- For access to historical transaction data, consider recovery from DB dumps. Refer to the Advanced Setup section for more details.
- DB Dump:
- For nodes that operate from a DB dump, which allows starting a zkSync node with a full historical transactions history, refer to the documentation on running from DB dumps at[03_running.mdopen in new window](#)
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System Requirements

The following are minimal requirements:

- CPU:
- A relatively modern CPU is recommended.
- RAM:
- 32 GB
- Storage:
-
    - Testnet Nodes:
-
    - 30 GB
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    - Mainnet Nodes:
-
    - 300 GB, with the state growing about 1TB per month.
- Network:
- 100 Mbps connection (1 Gbps+ recommended)

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Advanced Setup

For additional configurations like monitoring, backups, recovery from DB dump or snapshot, and custom PostgreSQL settings, please refer to the[ansible-en-role repositoryopen in new window](#).

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