Installation

This guide lays out the requirements and steps to register an operator with EigenLayer and opt-in to running the Multi-Prover AVS on Holesky testnet. Responsibilities of the operator will include sampling and proving batched transactions submitted by Scroll to the base layer.

Requirements

- 4 CPU
- 8GB Memory
- 100GB SSD
- EigenLayer CLI
- Docker
- anddocker-compose plugin
- Ubuntu 20.04 LTS
- 32 ETH or LST on Holesky testnet
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Operator setup

Skip this section if you have already[registered](https://docs.eigenlayer.xyz/eigenlayer/operator-guides/operator-installation) as a node operator on EigenLayer

Install EigenLayer CLI and register as operator

FollowEigenLayer's guide to install the EigenLayer CLI and register as an operator.

Running Multi-Prover AVS

Clone the setup repository

```

Copy gitclonehttps://github.com/automata-network/multiprover-avs-operator-setup.git

```

Update the configuration

```

Copy cdmultiprover-avs-operator-setup/holesky cpconfig/operator.json.exampleconfig/operator.json vimconfig/operator.json

```

Below are the configs youneed to provide :

- BlsKeyFile
- : BLS key generated using EigenLayer CLI, the default path is~/.eigenlayer/operator_keys/xxx.bls.key.json
- , please use absolute path for this configuration.
- EcdsaKeyFile
- : ECDSA key generated using EigenLayer CLI, the default path is~/.eigenlayer/operator_keys/xxx.bls.key.json
- , please use absolute path for this configuration.
- BlsKeyPassword
- : Password of the BLS key.
- EcdsaKeyPassword
- : Password of the ECDSA key.
- TaskFetcher.Endpoint
- : RPC endpoint of the Ethereum mainnet, replace thehttps://1rpc.io/eth
- with the endpoint you get from RPC service provider.
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Below are the configs that you canuse the default value :

- ProverURL
- : RPC endpoint of the TEE Prover, the default value ishttps://avs-prover-staging.ata.network
- , which is a TEE prover run by Automata Network.
- Simulation
- : The default value isfalse

- . In the simulation mode, the operator will not actually process the task.
- ETHRpcURL
- : Holesky RPC url used to interact with Ethereum Holesky testnet.
- ETHWsURL
- : Holesky WS url used to interact with Ethereum Holesky testnet.
- AggregatorURL
- : URL of aggregator hosted by Automata team. Aggregator will check validity of TEE prover, aggregator the BLS signature and submit the task to AVS service manager.
- EigenMetricsIpPortAddress
- : The ip + port used to fetch metrics.
- TaskFetcher
- : Define the tasks of this operator. On Holesky testnet, the task is to sample and prove the batch submitted by scroll to L1.
- RegistryCoordinatorAddress
- : Registry coordinator contracts address of Multi-Prover AVS on Holesky testnet.
- TEELivenessVerifierAddress
- : TEE liveness verifier contracts address on Holesky testnet, which verify the attestation provided by the TEE prover and manage its lifecycle.
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