

# Setting Up L2 Configuration

## 1. Run Script in op-node Directory

```
root@DESKTOP-47VQDK:~/avail-project/optimism/op-node# source ~/.bashrc
root@DESKTOP-47VQDK:~/avail-project/optimism/op-node# go run cmd/main.go genesis l2 \
--deploy-config ../packages/contracts-bedrock/deploy-config/getting-started.json \
--l1-deployments ../packages/contracts-bedrock/deployments/artifact.json \
--outfile.l2 genesis.json \
--outfile.rollup rollup.json \
--l1-rpc $L1_RPC_URL \
--l2-allocs ../packages/contracts-bedrock/deploy-config/statedump.json
INFO [10-29|03:44:55.035] Deploy config          path=../packages/contracts-bedrock/deploy-config/getting-started.json
INFO [10-29|03:44:56.122] Using L1 Start Block   number=6,961,503
INFO [10-29|03:44:56.387] Fetched L1 Start Block hash=0x2ac365d3a90c362040a6112dfa791afe0fb365542b80e3a5570a5a4829f0bfcf
WARN [10-29|03:44:56.387] GasPriceOracleBaseFeeScalar is 0 config=L2InitializationConfig config=GasPriceOracleDeployConfig
WARN [10-29|03:44:56.387] GasPriceOracleBlobBaseFeeScalar is 0 config=L2InitializationConfig config=GasPriceOracleDeployConfig
WARN [10-29|03:44:56.387] RequiredProtocolVersion is empty config=SuperchainL1DeployConfig
WARN [10-29|03:44:56.387] RecommendedProtocolVersion is empty config=SuperchainL1DeployConfig
WARN [10-29|03:44:56.387] L2OutputOracleStartingBlockNumber is 0, should only be 0 for fresh chains config=OutputOracleDeployConfig
WARN [10-29|03:44:56.388] ProofMaturityDelaySeconds is 0 config=FaultProofDeployConfig
WARN [10-29|03:44:56.388] DisputeGameFinalityDelaySeconds is 0 config=FaultProofDeployConfig
root@DESKTOP-47VQDK:~/avail-project/optimism/op-node#
```

## 2. Modify Rollup Config

The screenshot shows a VS Code editor with a file named `rollup.json` open. The file contains a JSON object with the following fields:

```

{
  "regolith_time": 0,
  "canyon_time": 0,
  "delta_time": 0,
  "ecotone_time": 0,
  "fjord_time": 0,
  "batch_inbox_address": "0xff00000000000000000000000000000000000000000000000000000000000000",
  "deposit_contract_address": "0x6ab9031781f1454fbeat41c976100b83bf58678a",
  "l1_system_config_address": "0x6789f2e85f8bab4e128c7c0677b8b704262ffce",
  "protocol_versions_address": "0x0000000000000000000000000000000000000000000000000000000000000000",
  "alt_da": {
    "da_challenge_contract_address": "0x0000000000000000000000000000000000000000000000000000000000000000",
    "da_commitment_type": "GenericCommitment",
    "da_challenge_window": 160,
    "da_resolve_window": 160
  }
}

```

The `alt_da` field is highlighted with a red box. The terminal at the bottom shows the command `root@DESKTOP-47VQDQK:~#`.

### 3. Generate JWT

avall-project > optimism > op-node > jwt.txt

1 5328b94853ca0f648a9a49a8660c89ce59fc14cfdca790376af9f7700add94af

2

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

bash - op-node

root@DESKTOP-47VGQDK:~# cd avall-project/op-node  
bash: cd: avall-project/op-node: No such file or directory  
root@DESKTOP-47VGQDK:~# cd avall-project/optimism  
root@DESKTOP-47VGQDK:~/avall-project/optimism# cd op-node  
root@DESKTOP-47VGQDK:~/avall-project/optimism/op-node# openssl rand -hex 32 > jwt.txt  
root@DESKTOP-47VGQDK:~/avall-project/optimism/op-node# openssl rand -hex 32 > jwt.txt  
root@DESKTOP-47VGQDK:~/avall-project/optimism/op-node#

OPEN EDITORS

jwt.txt ~/avail-pr...

disputega... M

genesis.json ~/a...

rollup.json ~/av...

ROOT [WSL: UBUNTU]

avall-project

optimism

op-node

bin

bindings

chaincfg

cmd

flags

metrics

node

p2p

params

rollup

version

withdrawals

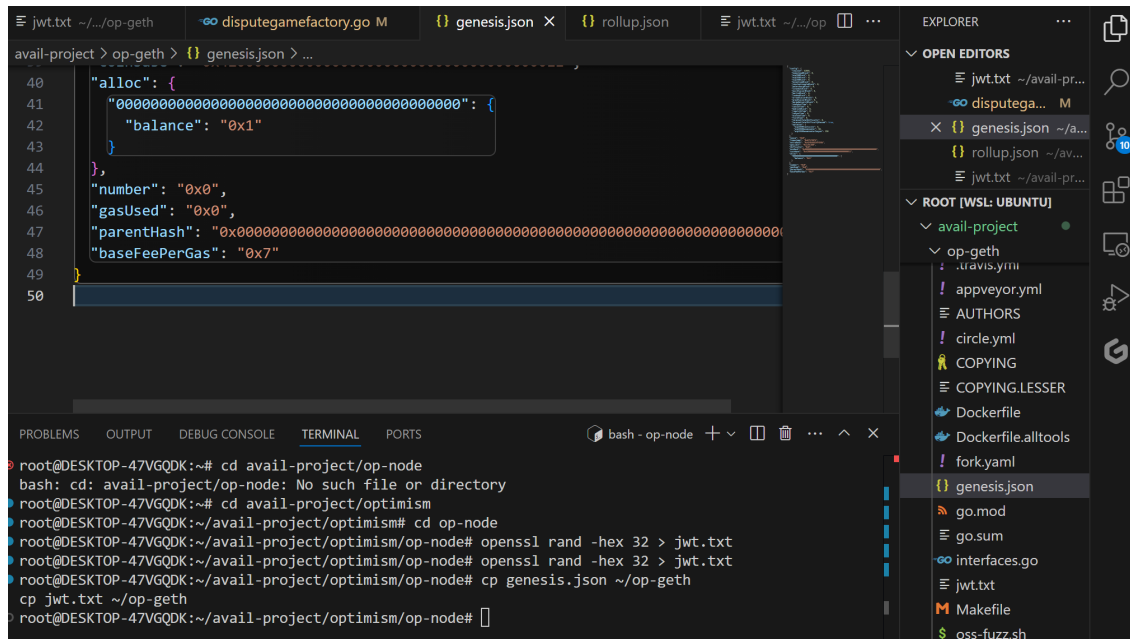
.gitignore

genesis.json

jwt.txt

LICENSE

## 4. Copy Genesis and JWT to Geth



The screenshot shows a Visual Studio Code editor with the `genesis.json` file open. The file contains a JSON object with the following fields: `alloc` (an array of account objects), `number` (0x0), `gasUsed` (0x0), `parentHash` (a 32-byte zero hash), and `baseFeePerGas` (0x7). The terminal at the bottom shows a series of commands to navigate to the `op-node` directory and copy the `genesis.json` file to the `geth` directory.

```
40  "alloc": [
41    {
42      "balance": "0x1"
43    }
44  ],
45  "number": "0x0",
46  "gasUsed": "0x0",
47  "parentHash": "0x0000000000000000000000000000000000000000000000000000000000000000",
48  "baseFeePerGas": "0x7"
49  ]
50
```

```
root@DESKTOP-47VGQDK:~# cd avail-project/op-node
bash: cd: avail-project/op-node: No such file or directory
root@DESKTOP-47VGQDK:~# cd avail-project/optimism
root@DESKTOP-47VGQDK:~/avail-project/optimism# cd op-node
root@DESKTOP-47VGQDK:~/avail-project/optimism/op-node# openssl rand -hex 32 > jwt.txt
root@DESKTOP-47VGQDK:~/avail-project/optimism/op-node# cp genesis.json ~/op-geth
root@DESKTOP-47VGQDK:~/avail-project/optimism/op-node#
```

