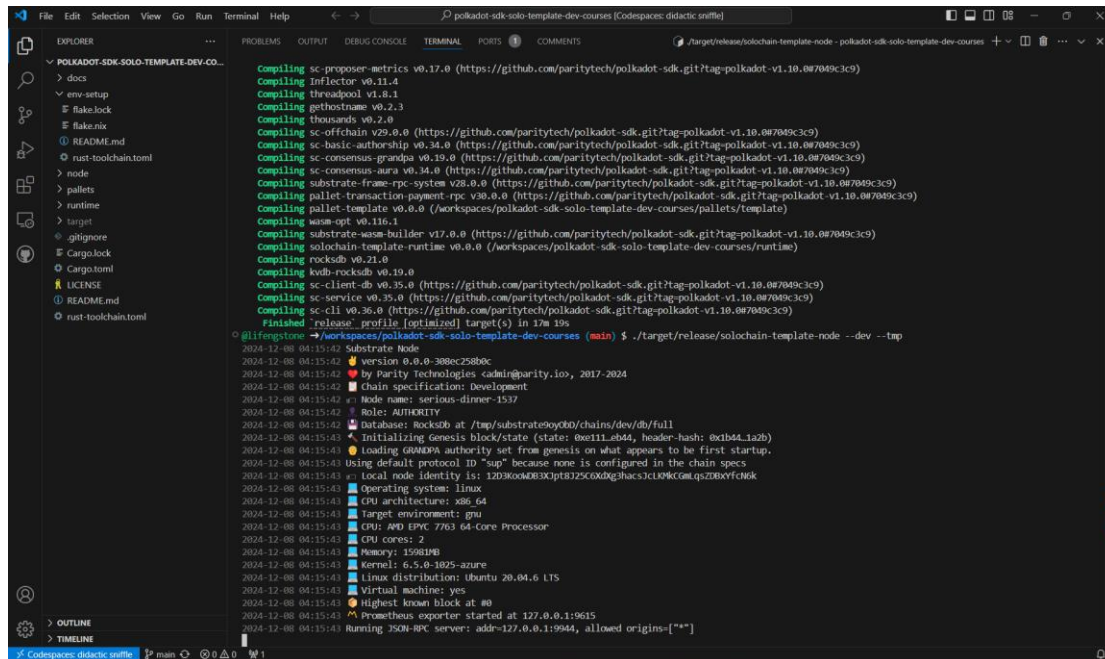


Homework 2 of #1604:

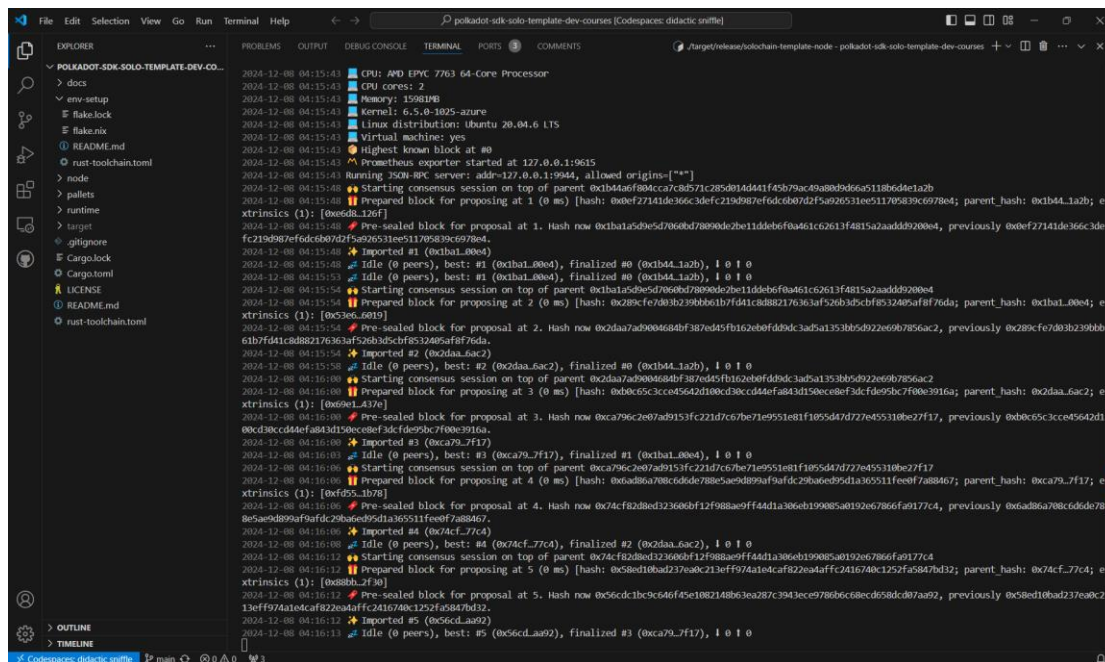


```
File Edit Selection View Go Run Terminal Help
polkadot-sdk-solo-template-dev-courses [CodeSpaces: dtidactc:sniffle]

EXPLORER
POLKADOT-SDK-SOLO-TEMPLATE-DEV.CO...
  docs
  env-setup
  flake.lock
  flake.nix
  README.md
  rust-toolchain.toml
  node
  pallets
  runtime
  target
  gitignore
  Cargo.lock
  Cargo.toml
  LICENCE
  README.md
  rust-toolchain.toml

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
/target/release/solochain-template-node - polkadot-sdk-solo-template-dev-courses

Compiling sc-proposer-metrics v0.17.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling Inflector v0.11.4
Compiling threadpool v1.8.1
Compiling gethostname v0.2.3
Compiling thousands v0.2.0
Compiling sc-offchain v29.0.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling sc-basic-authorship v0.34.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling sc-consensus-grandpa v0.19.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling sc-consensus-aura v0.34.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling substrate-frame-rpc-system v28.0.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling pallet-transaction-payment-rpc v30.0.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling pallet-template v0.0.0 (/workspaces/polkadot-sdk-solo-template-dev-courses/pallets/template)
Compiling wasm-opt v0.116.1
Compiling substrate-wasm-builder v17.0.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling solochain-template-runtime v0.0.0 (/workspaces/polkadot-sdk-solo-template-dev-courses/runtime)
Compiling rodbc v0.21.0
Compiling kvdb-rocksdb v0.19.0
Compiling sc-client-db v0.35.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling sc-service v0.35.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Compiling sc-cli v0.36.0 (https://github.com/paritytech/polkadot-sdk.git?tag=polkadot-v1.10.0#7049c3c9)
Finished release profile [optimized] target(s) in 17m 19s
$ git clone https://github.com/paritytech/polkadot-sdk-solo-template-dev-courses (main) $ ./target/release/solochain-template-node --dev --tap
2024-12-08 04:15:42 Substrate Node
2024-12-08 04:15:42 version 0.0.0-308ec2580c
2024-12-08 04:15:42 by Parity Technologies cadmin@parity.io, 2017-2024
2024-12-08 04:15:42 Chain specification: Development
2024-12-08 04:15:42 Node name: serious-dinner-1537
2024-12-08 04:15:42 Role: AUTHORITY
2024-12-08 04:15:42 Database: RocksDB at /tmp/substrate9oy0b0/chains/dev/db/full
2024-12-08 04:15:43 Initializing Genesis block/state (state: 0xe111eb44, header-hash: 0xb44_1a2b)
2024-12-08 04:15:43 Loading GRANDPA authority set from genesis on what appears to be first startup.
2024-12-08 04:15:43 Using default protocol ID "sup" because none is configured in the chain specs
2024-12-08 04:15:43 Local node identity is: 120300ad0830pt8125c0xdg3hacs3c10K6GmQsZ8BXvCn6k
2024-12-08 04:15:43 Operating system: linux
2024-12-08 04:15:43 CPU architecture: x86_64
2024-12-08 04:15:43 Target environment: gnu
2024-12-08 04:15:43 CPU: AMD EPYC 7763 64-Core Processor
2024-12-08 04:15:43 CPU cores: 2
2024-12-08 04:15:43 Memory: 159GB
2024-12-08 04:15:43 Kernel: 6.5.0-1025-azure
2024-12-08 04:15:43 Linux distribution: Ubuntu 20.04.6 LTS
2024-12-08 04:15:43 Virtual machine: yes
2024-12-08 04:15:43 Highest known block at #0
2024-12-08 04:15:43 Prometheus exporter started at 127.0.0.1:9615
2024-12-08 04:15:43 Running JSON-RPC server: addr=127.0.0.1:9944, allowed origins=[*]
```



```
2024-12-08 04:15:43 CPU: AMD EPYC 7763 64-Core Processor
2024-12-08 04:15:43 CPU cores: 2
2024-12-08 04:15:43 Memory: 159GB
2024-12-08 04:15:43 Kernel: 6.5.0-1025-azure
2024-12-08 04:15:43 Linux distribution: Ubuntu 20.04.6 LTS
2024-12-08 04:15:43 Virtual machine: yes
2024-12-08 04:15:43 Highest known block at #0
2024-12-08 04:15:43 Prometheus exporter started at 127.0.0.1:9615
2024-12-08 04:15:43 Running JSON-RPC server: addr=127.0.0.1:9944, allowed origins=[*]
2024-12-08 04:15:48 Starting consensus session on top of parent 0xb44a6f804cca7c8d571c285d014d441f45b79ac49a809d66a51186d4e1a2b
2024-12-08 04:15:48 Prepared block for proposing at 1 (0 ms) [hash: 0xdef27141de366c3defc219d987efdc0b07d25a926531ee511705839c6978e4; parent_hash: 0xb44_1a2b; e
xtrinsic (1): [0x6688_126f]]
2024-12-08 04:15:48 Pre-sealed block for proposal at 1. Hash now 0xb44a5d0e5d7060bd78090de2be11ddeb6fa461c62613f4815a2aadd92084, previously 0xdef27141de366c3de
fc219d987efdc0b07d25a926531ee511705839c6978e4.
2024-12-08 04:15:48 Imported #1 (0xb44_0004)
2024-12-08 04:15:48 Idle (0 peers), best: #1 (0xb44_0004), finalized #0 (0xb44_1a2b), I O I O
2024-12-08 04:15:53 Idle (0 peers), best: #1 (0xb44_0004), finalized #0 (0xb44_1a2b), I O I O
2024-12-08 04:15:54 Starting consensus session on top of parent 0xb44a5d0e5d7060bd78090de2be11ddeb6fa461c62613f4815a2aadd92084
2024-12-08 04:15:54 Prepared block for proposing at 2 (0 ms) [hash: 0x20cfe703b2798b01b7f41cd882176303af520b3d5cf8532a09af876da; parent_hash: 0xb44_0004; e
xtrinsic (1): [0x30ee_6019]]
2024-12-08 04:15:54 Pre-sealed block for proposal at 2. Hash now 0x2daa7ad900068bf387ed5fb162eb0fdd3dc3ad5a1353b05d922e0b7856ac2, previously 0x20cfe703b2798b0
1b7f41cd882176303af520b3d5cf8532a09af876da.
2024-12-08 04:15:54 Imported #2 (0x2daa_6ac2)
2024-12-08 04:15:58 Idle (0 peers), best: #2 (0x2daa_6ac2), finalized #0 (0xb44_1a2b), I O I O
2024-12-08 04:16:00 Starting consensus session on top of parent 0x2daa7ad900068bf387ed5fb162eb0fdd3dc3ad5a1353b05d922e0b7856ac2
2024-12-08 04:16:00 Prepared block for proposing at 3 (0 ms) [hash: 0xb0c65c3cc45642d100cd30cd4fa843d150ec8ef3dcfd095bc7f00c3916a; parent_hash: 0x2daa_6ac2; e
xtrinsic (1): [0x0e0e_437e]]
2024-12-08 04:16:00 Pre-sealed block for proposal at 3. Hash now 0xca796c2e07ad9153fc221d7c6be71e9551e81f055d47d7276455310e27f17, previously 0xb0c65c3cc45642d
100cd30cd4fa843d150ec8ef3dcfd095bc7f00c3916a.
2024-12-08 04:16:00 Imported #3 (0xca79_7f17)
2024-12-08 04:16:03 Idle (0 peers), best: #3 (0xca79_7f17), finalized #1 (0xb44_0004), I O I O
2024-12-08 04:16:06 Starting consensus session on top of parent 0xca796c2e07ad9153fc221d7c6be71e9551e81f055d47d7276455310e27f17
2024-12-08 04:16:06 Prepared block for proposing at 4 (0 ms) [hash: 0xad86a708c0d0c780c5a0d99af9f4dc29ba6e095d1a365511fe0f7a88467; parent_hash: 0xca79_7f17; e
xtrinsic (1): [0xf055_1b78]]
2024-12-08 04:16:06 Pre-sealed block for proposal at 4. Hash now 0x74cf82d8ed323600bf12f988ae9ff44d1a306eb199085a019267866fa9177c4, previously 0xad86a708c0d0c78
0c5a0d99af9f4dc29ba6e095d1a365511fe0f7a88467.
2024-12-08 04:16:06 Imported #4 (0x74cf_77c4)
2024-12-08 04:16:08 Idle (0 peers), best: #4 (0x74cf_77c4), finalized #2 (0x2daa_6ac2), I O I O
2024-12-08 04:16:12 Starting consensus session on top of parent 0x74cf82d8ed323600bf12f988ae9ff44d1a306eb199085a019267866fa9177c4
2024-12-08 04:16:12 Prepared block for proposing at 5 (0 ms) [hash: 0x58ed10bad237e0ac213eff974a1e4caf822e4affc2416740c1252fa5847bd32; parent_hash: 0x74cf_77c4; e
xtrinsic (1): [0x08bb_2f30]]
2024-12-08 04:16:12 Pre-sealed block for proposal at 5. Hash now 0x56cd1bc9c646f45e1082148b63e287c3943ec97806c08cd580cd87aa92, previously 0x58ed10bad237e0ac2
13eff974a1e4caf822e4affc2416740c1252fa5847bd32.
2024-12-08 04:16:12 Imported #5 (0x56cd_aa92)
2024-12-08 04:16:13 Idle (0 peers), best: #5 (0x56cd_aa92), finalized #3 (0xca79_7f17), I O I O
```

Development

solochain-template-runtime/100

#39

Accounts

Network

Developer

Settings

GitHub

Wiki

Explorer

Chain info

Block details

Latency

Node info

API stats

block hash or number to query

last block

3.6 s

target

6 s

total issuance

4.6116 MUnit

inactive issuance

0.0000 Unit

finalized

37

best

39

recent blocks

39

0x96b1c6adba60951bbcfb23f09db0915332c627d126f4...

38

0x87e18d56e52cf83c154c18cba6f542e5cf12f03a314683...

37

0x0ecfb15b8362342c9594072bcfc686d4e5ebfe8d5b46c...

36

0x9c359d2ad6690700b8aae6fa5c88b580b3c0b955578a...

35

0x83b654c41d31ae2f669eec7d7dfbd588953b0928de84...

34

0x65c1a64064b05481cb74afce2fe892f6875bd9613b05a...

33

0x9d0baf02b6d71e5f3173572613a59344e156e83e79a3...

32

0x44ce7e26da890966b57b3ef4b0e8dea311f9c6dd2d5c...

31

0xf40840fd52c7347e16e8da43912b0f46a51304a1a67a5...

30

0xd7de0c51a20d17df7487abc081acec244aa84a549e4ff...

29

0xd05f8bad4350508ad2c7e83b40e7977b2a4040692400...

28

0x4ddb3982a328182471016c3b71095686951fe987d99...

27

0xc3117a2d758514bae60bf2c0bed84131ef3e6d5c35e3...

26

0x8868273382c9b34117c2bdabf6e1a1080bb2211baaa3...

recent events

No events available