SAST - Detailed Findings

dashevo/dapi

lib/config/index.js

severity:error rule:ajinabraham.njsscan.hardcoded secrets.node password: A hardcoded password in plain text is identified. Store it properly in an environment variable. 30 DEFAULT CONFIG[OPTIONS.DASHCORE RPC PASS] = 'password';

-> false positive (default configuration)

severity:error rule:ajinabraham.njsscan.hardcoded secrets.node username: A hardcoded username in plain text is identified. Store it properly in an environment variable. 29 DEFAULT CONFIG[OPTIONS.DASHCORE RPC USER] = 'dashrpc';

-> false positive (default configuration)

severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injecti on: Object injection via bracket notation via optionName

envConfig[optionName] = process.env[optionName];

-> false positive (sets env var)

lib/grpcServer/handlers/core/getStatusHandlerFactory.js

severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injecti on: Object injection via bracket notation via masternodeStatusResponse.state

const masternodeStatus =

GetStatusResponse.Masternode.Status[masternodeStatusResponse.state];

-> false positive

lib/grpcServer/handlers/createGrpcErrorFromDriveResponse.js severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injecti on: Object injection via bracket notation via code.toString()

const CommonErrorClass = COMMON ERROR CLASSES[code.toString()];

-> false positive (defined error codes from grpc-common/lib/server/error/GrpcErrorCodes)

```
lib/log/Logger.js
severity:warning rule:ajinabraham.njsscan.error_disclosure.generic_error_disclosure: Error
messages with stack traces may expose sensitive information about the application.
53
                 try {
54
                     appendFileAsync(this.outputFilePath, EOL + log.trim(), { encoding: 'utf8' });
                  } catch (error) {
55
                   // eslint-disable-next-line no-console
57
                     console.error(`Error: Logger: ${error}`);
58
                  }
-> false positive (intern log)
lib/transactionsFilter/TransactionHashesCache.js
severity:warning
rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injecti
on: Object injection via bracket notation via i
                  const { transaction } = this.transactions[i];
166
174
                  const { merkleBlock } = this.merkleBlocks[i];
183
                  const cachedBlock = this.blocks[i];
-> false positive (index)
test/functional/grpcServer/handlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-filter-stream/subscribeToTransactionsWithProofsHandlers/tx-f
erFactory.spec.js
severity:warning
rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injecti
on: Object injection via bracket notation via received Transactions.length - 1
               const lastReceivedTransaction = receivedTransactions[receivedTransactions.length -
1];
-> false positive (last element)
severity:warning
rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injecti
on: Object injection via bracket notation via historicalTransactions.length - 1
515 const lastHistoricalTransaction = historicalTransactions[historicalTransactions.length -
-> false positive (last element)
```

dashevo/dashcore-lib

benchmark/script.js

severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injection: Object injection via bracket notation via i

23: var tx = block.transactions[i];

-> false positive (i belongs to for-loop)

severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injection: Object injection via bracket notation via j

25: var input = tx.inputs[j];

-> false positive (j belongs to for-loop)

.....

severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injection: Object injection via bracket notation via k

31: var output = tx.outputs[k];

-> false positive (k belongs to for-loop)

benchmark/serialization.js

severity:warning rule:ajinabraham.njsscan.crypto_node.node_insecure_random_generator: crypto.pseudoRandomBytes()/Math.random() is a cryptographically weak random number generator.

28: var num = Math.round(Math.random() * 10000000000000);

-> false positive (random test data does not require secure randomness)

lib/block/merkleblock.js

severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injection: Object injection via bracket notation via options.hashesUsed++

219: const hash = this.hashes[options.hashesUsed++];

-> false positive (value gets checked beforehand if it is too large)

lib/crypto/bn.js

severity:warning

rule:javascript.lang.security.audit.detect-bracket-object-injection.detect-bracket-object-injection: Object injection via bracket notation via buf.length - 1 - i

```
16: buf2[i] = buf[buf.length - 1 - i];
```

205: rbuf[rbuf.length - 1 - i] = buf[buf.length - 1 - i];

-> false positives (buf.length comes from buf; i belongs to for-loop)

lib/crypto/hash.js

severity:warning rule:ajinabraham.njsscan.crypto_node.node_sha1: SHA1 is a a weak hash which is known to have collision. Use a strong hashing function.

15: return crypto.createHash('sha1').update(buf).digest();

-> low (while this code is just part of a method for calculating sha1-hashes, usage of that method may pose a security risk)

lib/crypto/random.js

severity:warning rule:ajinabraham.njsscan.crypto_node.node_insecure_random_generator: crypto.pseudoRandomBytes()/Math.random() is a cryptographically weak random number generator.

47: r = Math.random() * b32;

-> low (part of a function that is supposed to generate insecure randomness, usage of that method may pose a security risk)

Npm-audit (dashcore-lib)

elliptic <6.5.4 Severity: moderate

Use of a Broken or Risky Cryptographic Algorithm - https://github.com/advisories/GHSA-r9p9-mrjm-926w

@dashevo/dashcore-lib <=0.18.11 || >=0.19.0

Depends on vulnerable versions of elliptic

-> false positive (naive implementation in elliptic does not check if point is on curve, but dashcore-lib enforces this validation via point.validate())