

> Create deploy scripts for all remaining AXIOM contracts to match my existing Hardhat pattern. The scripts must:

Write to config/addresses.json using the same saveAddress() helper format I already use.

Include constructor parameters, role grants, and console logs for each deployment.

Use the same naming format (05\_deploy\_\*.js onward).

Import helpers with `const { saveAddress } = require("../helpers/saveAddress")` and `const { getAddr } = require("../helpers/getAddr")` when necessary.

Follow best practices for async/await, error handling, and role assignments.

Match my existing folder structure with /scripts/helpers/getAddr.js for reading from addresses.json.

Include deploy scripts for:

1. LiquidityVault
2. AXMStakingPool
3. GovernanceCouncil
4. AssetTokenizationRegistry
5. TreasuryManager
6. OracleRelay
7. NodeLicenseNFT
8. AXIOMLaunchpad
9. CrossChainBridgeAdapter
10. AXIOMAnalyticsHub
11. ComplianceAdapter

Each script must automatically grant roles (e.g., MANAGER\_ROLE, FUNDER\_ROLE, RELAYER\_ROLE, etc.) from .env variables like ADMIN, STAKING\_FUNDER, BRIDGE\_RELAYER, etc.

Use Hardhat's `ethers.getContractFactory()`, `deploy()`, `waitForDeployment()`, and `saveAddress()`.  
End each script with `main().catch((e)=>{console.error(e);process.exit(1);});`

Also generate:

A `getAddr.js` helper that reads addresses from `config/addresses.json`.

Updated `package.json` with "scripts" entries to deploy each module individually.

Updated `.env` template including keys for all parameters (`ADMIN`, `LP_TOKEN`, `STAKING_FUNDER`, `GOV_*`, `TREASURY_OPERATOR`, `ORACLE_PUBLISHER`, `LAUNCHPAD_*`, `BRIDGE_RELAYER`, and `SCHEMA_*`).

Use consistent console output like: `console.log(\ContractName deployed at ${addr}`);``

After creating all scripts, ensure:

File names increment sequentially (`05_deploy_LiquidityVault.js` → `15_deploy_ComplianceAdapter.js`).

Scripts import Hardhat and run standalone with `--network peaq`.

All scripts output to `addresses.json` under their network key.

Example structure:

```
scripts/
├─ helpers/
│   ├── saveAddress.js
│   └─ getAddr.js
├─ 05_deploy_LiquidityVault.js
├─ 06_deploy_AXMStakingPool.js
...
└─ 15_deploy_ComplianceAdapter.js
```

Confirm that each deploy script mirrors the same deployment pattern and logging style used for previously deployed contracts (like `AXM`, `DIDRegistry`, etc.).

The output should be complete JavaScript code files ready to run inside my Replit Hardhat workspace.