

Analyzing Hyperledger Fabric Ledger, Transactions, and Logs using Elasticsearch and Kibana

Week 1	Exploration. Setup Hyperledger Fabric network, connect Hyperledger Explorer to Fabric. Use Filebeat to send data to Kibana.
Week 2	Exploration. Extend Fabric network (Fabric-ca, binary data and json chaincode). Dump ledger data from HL Explorer and visualize it in Kibana.
Week 3	Write Beats agent with configuration that sends data to Elasticsearch.
Week 4	Create operational dashboards similar to HL Explorer. Create data query dashboards.
Week 5	Create example HL Fabric network setups for different topics and use-cases (supply chain, medicine provenance, etc.) Write a simulator that generates transactions for these network types.
Week 6	Add data dashboards for different examples.
Week 7	Test Fabric Token and add dashboard for Fabric token.
Week 8	Refine the examples and prepare for submission as Hyperledger Lab. Evaluate how to read data directly from ledger file instead of using peer APIs.
Week 9	Investigate replacing ledger file with Elasticsearch in the backend.
Week 10	Submit the project as Hyperledger Lab. Store and analyze peer / CA logs within Elastic stack.
Week 11	Create Fabric network that uses private data.
Week 12	Create dashboards for private data.