# AsenaFabric

## A Turnkey Blockchain Platform for the Enterprise

AsenaFabric is a turnkey blockchain platform for the enterprise. It's based on Hyperledger Fabric which is built by Linux Foundation.

AsenaFabric provides enterprise-level security and scalability as well as performance. It provides a key-value datastore and JSON document database to store data. Data can be on a private area where other organizations cannot access or data can be on a public area where only the organizations in a consortium can access.

HYPERLEDGER

AsenaFabric hardens the Hyperledger Fabric and provides a secure platform where organizations can share data safely. AsenaFabric comes with performance monitoring and log management solutions to support IT operations.

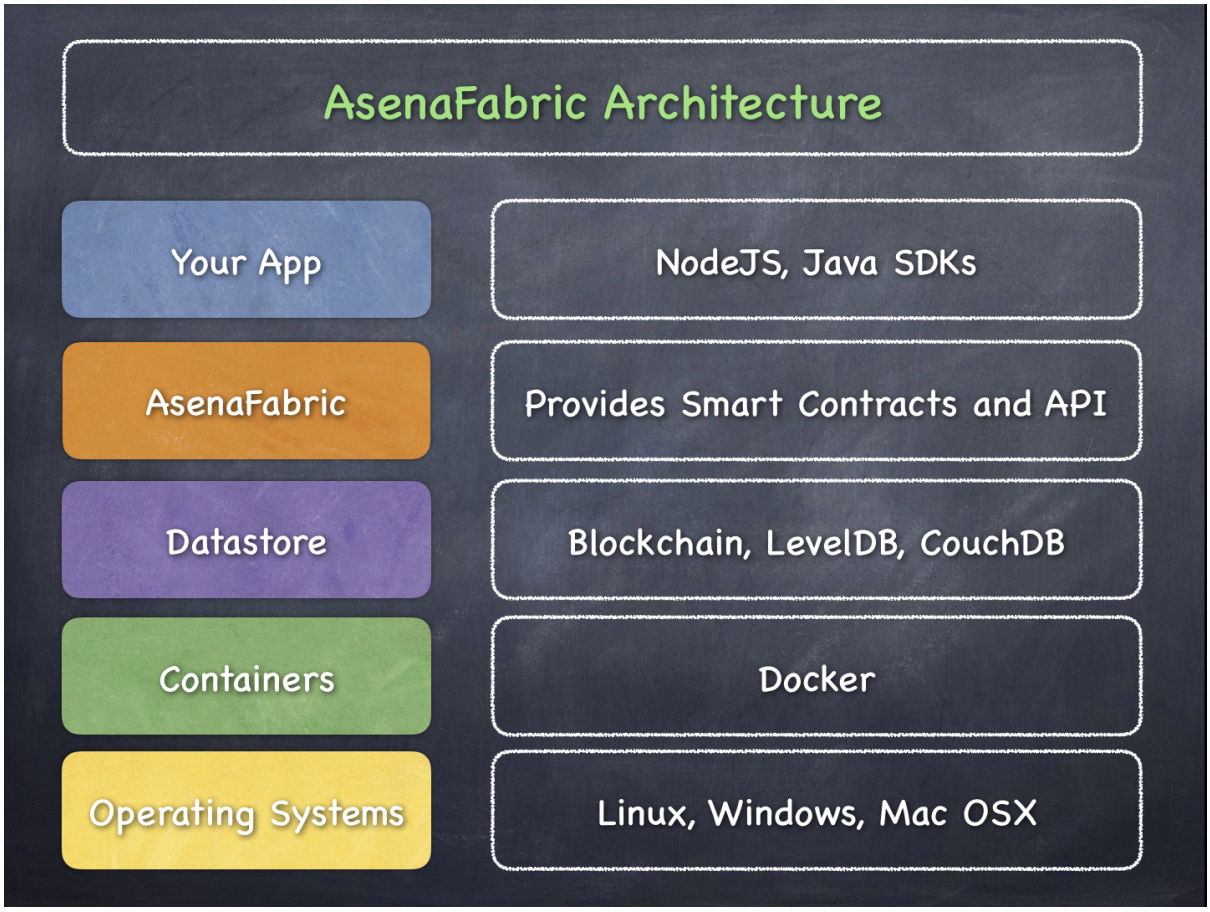
AsenaFabric provides a **ready-to-use Smart Contract** so that you can start using the blockchain platform immediately. You can use Hyperledger SDKs in **NodeJS** and **Java** to integrate your applications to the platform.

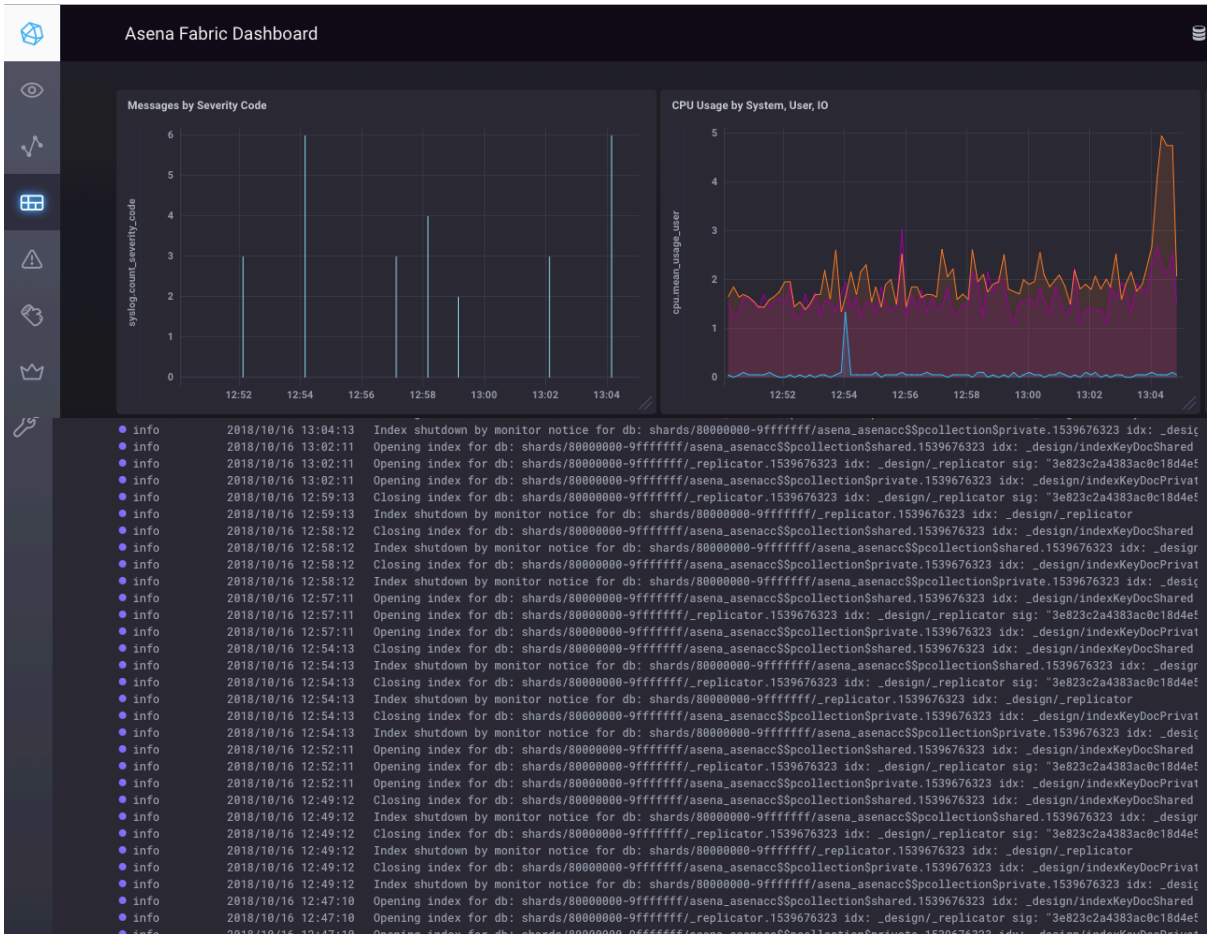
**Key Features:**

- Based on **Hyperledger Fabric**
- Built-in **Smart Contract (Chain Code)**
- Runs in **Docker** containers
- Uses **CouchDB** as the JSON document database
- Uses **LevelDB** as the key-value datastore
- Provides **Certificate Authority** services
- Uses **TICK Stack** to manage logs and performance
- Can run on **your datacenter**
- Can run on any cloud (**Azure, AWS, Google**)

**Use Cases:**

- Transfer assets securely in financial applications (finance sector)
- Bring transparency to supply chains (retail sector)
- Provide digital identity services (telecom and ICT sector)
- Share data securely with providers and suppliers (manufacturing sector)
- Fraud detection collaboration in a consortium of companies


AsenaFabric Architecture
Your App
NodeJS, Java SDKs
AsenaFabric
Provides Smart Contracts and API
Datastore
Blockchain, LevelDB, CouchDB
Containers
Docker
Operating Systems
Linux, Windows, Mac OSX


Asena Fabric Dashboard
Messages by Severity Code
syslog.count_severity_code
CPU Usage by System, User, IO
cpu.mean_usage_user
info 2018/10/16 13:04:13 Index shutdown by monitor notice for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _desig
info 2018/10/16 13:02:11 Opening index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _design/indexKeyDocShared
info 2018/10/16 13:02:11 Opening index for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator sig: "3e823c2a4383ac0c18d4e5
info 2018/10/16 13:02:11 Opening index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _design/indexKeyDocPrivat
info 2018/10/16 12:59:13 Closing index for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator sig: "3e823c2a4383ac0c18d4e5
info 2018/10/16 12:59:13 Index shutdown by monitor notice for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator
info 2018/10/16 12:58:12 Closing index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _design/indexKeyDocShared
info 2018/10/16 12:58:12 Index shutdown by monitor notice for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _desigr
info 2018/10/16 12:58:12 Closing index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _design/indexKeyDocPrivat
info 2018/10/16 12:58:12 Index shutdown by monitor notice for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _desig
info 2018/10/16 12:57:11 Opening index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _design/indexKeyDocShared
info 2018/10/16 12:57:11 Opening index for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator sig: "3e823c2a4383ac0c18d4e5
info 2018/10/16 12:57:11 Opening index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _design/indexKeyDocPrivat
info 2018/10/16 12:54:13 Closing index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _design/indexKeyDocShared
info 2018/10/16 12:54:13 Index shutdown by monitor notice for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _desigr
info 2018/10/16 12:54:13 Closing index for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator sig: "3e823c2a4383ac0c18d4e5
info 2018/10/16 12:54:13 Index shutdown by monitor notice for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator
info 2018/10/16 12:54:13 Closing index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _design/indexKeyDocPrivat
info 2018/10/16 12:54:13 Index shutdown by monitor notice for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _desig
info 2018/10/16 12:52:11 Opening index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _design/indexKeyDocShared
info 2018/10/16 12:52:11 Opening index for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator sig: "3e823c2a4383ac0c18d4e5
info 2018/10/16 12:52:11 Opening index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _design/indexKeyDocPrivat
info 2018/10/16 12:49:12 Closing index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _design/indexKeyDocShared
info 2018/10/16 12:49:12 Index shutdown by monitor notice for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _desigr
info 2018/10/16 12:49:12 Closing index for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator sig: "3e823c2a4383ac0c18d4e5
info 2018/10/16 12:49:12 Index shutdown by monitor notice for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator
info 2018/10/16 12:49:12 Closing index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _design/indexKeyDocPrivat
info 2018/10/16 12:49:12 Index shutdown by monitor notice for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$private.1539676323 idx: _desig
info 2018/10/16 12:47:10 Opening index for db: shards/80000000-9fffffff/asena_asenacc$$pcollection$shared.1539676323 idx: _design/indexKeyDocShared
info 2018/10/16 12:47:10 Opening index for db: shards/80000000-9fffffff/_replicator.1539676323 idx: _design/_replicator sig: "3e823c2a4383ac0c18d4e5