



Exploring The Demo

Canton Network Quickstart Guide | 2025

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Exploring the Demo

The CN-QS and its guides are a work-in-progress (WIP). As a result, the CN-QS guides may not accurately reflect the state of the application. If you find errors or other inconsistencies, please contact your representative at Digital Asset.

This section works through a complete business operation within the CN-QS.

Prerequisites

You should have successfully installed the CN-QS before beginning this demonstration.

Access to the [CN-Quickstart Github repository](#) and [CN Docker repository](#) is needed to successfully pull the Digital Asset artifacts from JFrog Artifactory.

Access to the *Daml-VPN* connection or [a SV Node](#) that is whitelisted on the CN is required to connect to *DevNet*. The GSF publishes a [list of SV nodes](#) who have the ability to sponsor a Validator node. To access *DevNet*, contact your sponsoring SV agent for VPN connection information.

If you need access, email support@digitalasset.com.

The CN-QS is a Dockerized application and requires [Docker Desktop](#). Running CN-QS on *LocalNet* is resource intensive. It is recommended to allocate 32 GB of memory and 3 GB of Swap memory to properly run the required Docker containers. If you witness unhealthy containers, please consider allocating additional resources, if possible.

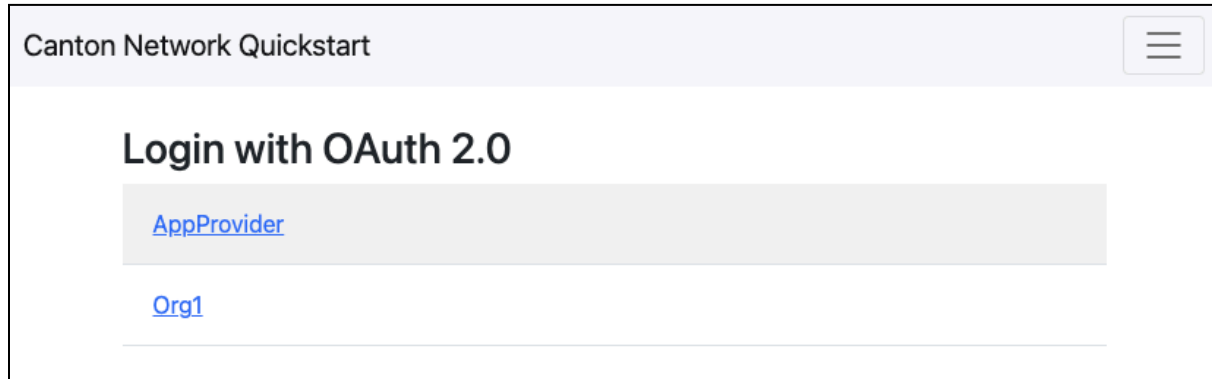
DevNet is not as intensive because the SVs and other *LocalNet* containers are hosted outside of your local machine.

Walkthrough

After the QS is installed and running, confirm that you are in the `quickstart` subdirectory of the CN-QS.

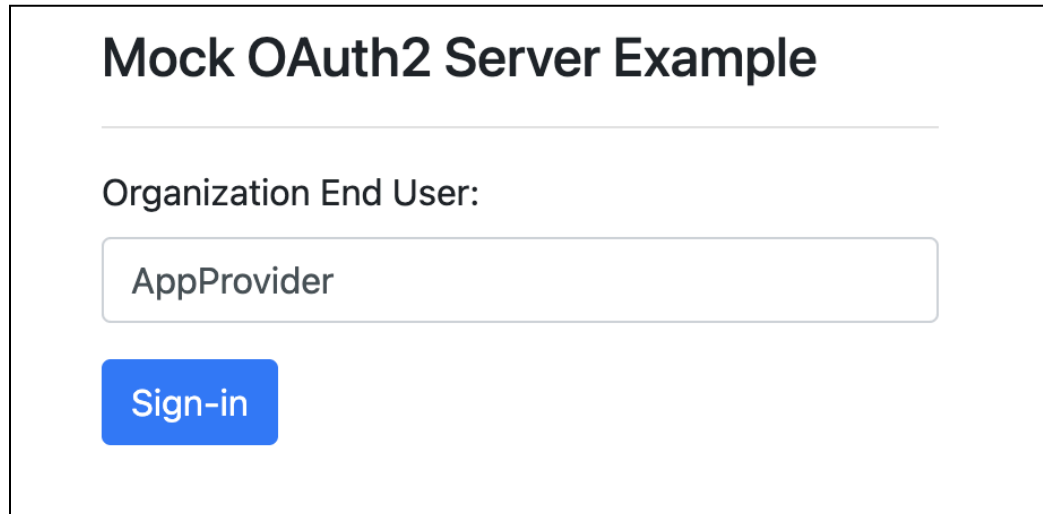
Open a new incognito browser.

Navigate to `localhost:3000/login` or run `make open-app-ui` in the terminal.



The screenshot shows a web browser window titled "Canton Network Quickstart". The page has a light purple header bar with the title and a hamburger menu icon. The main content area is white and features the heading "Login with OAuth 2.0". Below this heading, there is a light gray rectangular box containing the text "AppProvider" with a blue underline. Below the gray box, the text "Org1" is also underlined in blue. A horizontal line is positioned below the "Org1" text.

Login as the AppProvider.



The screenshot shows a web browser window titled "Mock OAuth2 Server Example". The page has a white background with a horizontal line below the title. Below the line, the text "Organization End User:" is displayed. Underneath this text is a light gray rectangular input field containing the text "AppProvider". Below the input field is a blue rectangular button with the text "Sign-in" in white.

Select “AppInstallRequests” in the menu.

Canton Network Quickstart
Home
AppInstallRequests
AppInstalls
Licenses
LicenseRenewalRequests
OAuth2
AppProvider
Logout

Note: Run `make create-app-install-request` to submit an AppInstallRequest from the AppUser participant.

App Install Requests

Contract ID	DSO	Provider	User	Meta	Actions
-------------	-----	----------	------	------	---------

Open a terminal.

From `/quickstart/` run `make create-app-install-request` to create an App Installation Request on behalf of the Participant.

```

((base) quickstart ~ % make create-app-install-request
docker compose -f docker/app-user-shell/compose.yaml --env-file .env run --rm create-app-install-request ||
true
get_token ledger-api-user AppProvider
get_user_party AppProvider participant-app-provider
http://participant-app-provider:7575/v2/users/AppProvider
get_token ledger-api-user Org1
get_user_party Org1 participant-app-user
http://participant-app-user:7575/v2/users/Org1
get_token administrator Org1
http://validator-app-user:5003/api/validator/v0/scan-proxy/dso-party-id
http://participant-app-user:7575/v2/commands/submit-and-wait
--data-raw {
  "commands" : [
    { "CreateCommand" : {
      "template_id": "#quickstart-licensing:Licensing.AppInstall:AppInstallRequest",
      "create_arguments": {
        "dso": "DSO::12209a3af80af3fa93853be8a8b9f5887055edc3b0a94f4b198f486d08d197784c09",
        "provider": "AppProvider::1220b3de80de523473aa2ca56745ef1fb29a2203dfd13029e0448336bbcf3
82aaf86",
        "user": "Org1::1220e69bc6115cd8ed360aa6caafce122c2a24561262c2f6ce6a6070e170e9e8244d",
        "meta": {"values": []}
      }
    }
  ]
},
{
  "workflow_id": "create-app-install-request",
  "application_id": "ledger-api-user",
  "command_id": "create-app-install-request",
  "deduplication_period": { "Empty": {} },
  "act_as": ["Org1::1220e69bc6115cd8ed360aa6caafce122c2a24561262c2f6ce6a6070e170e9e8244d"],
  "read_as": ["Org1::1220e69bc6115cd8ed360aa6caafce122c2a24561262c2f6ce6a6070e170e9e8244d"],
  "submission_id": "create-app-install-request",
  "disclosed_contracts": [],
  "domain_id": "",
  "package_id_selection_preference": []
}
{"update_id":"1220aebcd64fc960c2aec834d415967899994f21a69ef9cab5639b8521169a0ca67","completion_offset":81}

```

If your machine is not powerful enough to host LocalNet or if the docker containers are not responsive then the response may show a failure with status code 404 or 000. Increasing Docker memory limit to at least 32 GB should allow the LocalNet containers to operate properly.

```
(base) quickstart ~ % make create-app-install-request
docker compose -f docker/app-user-shell/compose.yaml --env-file .env run --rm create-app-install-request || true
[+] Building 0.0s (0/0)                                docker:desktop-linux
[+] Building 0.0s (0/0)                                docker:desktop-linux
get_token ledger-api-user AppProvider
get_user_party AppProvider participant-app-provider
http://participant-app-provider:7575/v2/users/AppProvider
get_token ledger-api-user Org1
get_user_party Org1 participant-app-user
http://participant-app-user:7575/v2/users/Org1
get_token administrator Org1
http://validator-app-user:5003/api/validator/v0/scan-proxy/dso-party-id
Request failed with HTTP status code 404
Response body: The requested resource could not be found.
```

The install request appears in the list.

Canton Network Quickstart Home AppInstallRequests AppInstalls Licenses LicenseRenewalRequests OAuth2 **AppProvider** Logout

Note: Run `make create-app-install-request` to submit an AppInstallRequest from the AppUser participant.

App Install Requests

Contract ID	DSO	Provider	User	Meta	Actions
00a2400ea9a6...	DSO::12209a3af...	AppProvider::12...	Org1::1220e69b...	{"data":{}}	<button>Actions</button>

Select “Actions.”

App Install Requests

Contract ID	DSO	Provider	User	Meta	Actions
00a2400ea9a6...	DSO::12209a3af...	AppProvider::12...	Org1::1220e69b...	{"data":{}}	Accept Reject Cancel

Select “Accept” and the request moves to the “AppInstalls” view.

App Installs

Existing AppInstalls

Contract ID	DSO	Provider	User	Meta	Num Licenses Created	Actions
00e43a89f1c84...	DSO::12209a3af...	AppProvider::12...	Org1::1220e69b...	{"data":{}}	0	Actions

Select “Actions” and then select “Create License.”

App Installs

Existing AppInstalls

Contract ID	DSO	Provider	User	Meta	Num Licenses Created	Actions
00e43a89f1c84e...	DSO::12209a3af8...	AppProvider::122...	Org1::1220e69bc...	{"data":{}}	0	Create License Cancel Install Close

The License is created.

Canton Network Quickstart Home AppInstallRequests AppInstalls Licenses LicenseRenewalRequests OAuth2 AppProvider Logout

App Installs

Existing AppInstalls

Contract ID	DSO	Provider	User	Meta	Num Licenses Created	Actions
005a2ddfb89d00...	DSO::12209a3af8...	AppProvider::122...	Org1::1220e69bc...	{"data":{}}	1	Actions

Success
Success: License created with ID:
0050da1bc6f07e860545cf6511a8308da21d2bb4
69fbcee406d8753e13f651fbf2ca10122059ef8fec
86f1c373e0734bd74a66e50c6c1eccc7c8f1cb
6755137ec10e8e4

Notice in the screenshot above that the User field is set to “Org1.”

At this time, the license also appears in Org1’s view.

Canton Network Quickstart Home AppInstallRequests AppInstalls Licenses LicenseRenewalRequests Org1 Logout

Licenses

Existing Licenses

Contract ID	DSO	Provider	User	Params	Expires At	License Num
0050da1bc6f07e8605...	DSO::12209a3af...	AppProvider::12...	Org1::1220e69b...	{"meta":{"data":{}}}	2025-02-11T11:23:19.5...	1

In the AppProvider account, navigate to the Licenses menu and select “Actions.”

Existing Licenses

Contract ID	DSO	Provider	User	Params	Expires At	License Num	Actions
0050da1bc6f07e8605...	DSO::12209a3af...	AppProvider::12...	Org1::1220e69b...	{"meta":{"data":{}}}	2025-02-11T11:23:19.5...	1	<button>Actions</button>

Actions for License 0050da1bc6f07e860545cf65

Renew License

Extension: 30 days (P30D), **Payment Acceptance:** 7 days (P7D), **Fee:** 100 CC

Description:

e.g. "Renew for next month"

Renew

Expire License

Description:

e.g. "License expired"

Expire

Close

To renew the license, enter a description then click the green “Renew” button.

Actions for License 0050da1bc6f07e860545cf65

Renew License

Extension: 30 days (P30D), **Payment Acceptance:** 7 days (P7D), **Fee:** 100 CC

Description:

Activate for one month

Renew

Expire License

Description:

e.g. "License expired"

Expire

Close

The license renewal process is initiated.

Canton Network Quickstart

HomeAppInstallRequestsAppInstallsLicensesLicenseRenewalRequestsOAuth2

AppProviderLogout

Success

Success: License Renewal initiated successfully

Licenses

Existing Licenses

Contract ID	DSO	Provider	User	Params	Expires At	License Num	Actions
0050da1bc6f07e8605...	DSO::12209a3af...	AppProvider::12...	Org1::1220e69b...	{"meta":{"data":{}}}	2025-02-11T11:23:19.5...	1	Actions

Navigate to the License Renewal Requests menu.

License Renewal Requests							
Contract ID	Provider	User	DSO	License Number	Fee (CC)	Extension Duration	Actions
00c9285b226956419d...	AppProvider::12...	Org1::1220e69b...	DSO::12209a3af...	1	100	30 days	Complete Renewal

Clicking “Complete Renewal” reveals that the license must be paid for in order to be renewed.

Canton Network Quickstart							
<div>Home AppInstallRequests Appinstalls Licenses LicenseRenewalRequests OAuth2</div>							
<div>AppProvider Logout</div>							
License Renewal Requests							
<div>Error</div> <div>Error: The license has not yet been paid for.</div>							
Contract ID	Provider	User	DSO	License Number	Fee (CC)	Extension Duration	Actions
00c9285b226956419d...	AppProvider::12...	Org1::1220e69b...	DSO::12209a3af...	1	100	30 days	<div>Complete Renewal</div>

Return to `localhost:3000/login` in an incognito browser.

Canton Network Quickstart

Login with OAuth 2.0

[AppProvider](#)

[Org1](#)

Login as an Org1 user.

Mock OAuth2 Server Example

Organization End User:

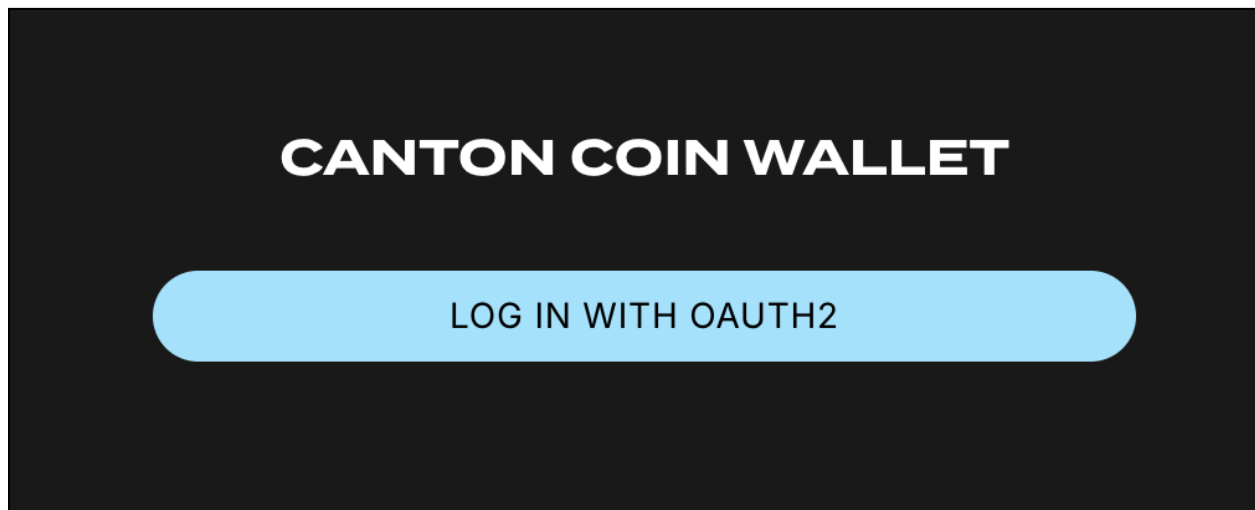
Org1

Sign-in

Go to the LicenseRenewalRequests View and click the “Pay” button.

Canton Network Quickstart							Org1	Logout
License Renewal Requests								
Contract ID	Provider	User	DSO	License Number	Fee (CC)	Extension Duration	Actions	
00c9285b226956419d...	AppProvider::12...	Org1::1220e69b...	DSO::12209a3af...	1	100	30 days	<button>Pay</button>	

Clicking “Pay” redirects to the Canton Coin (CC) Wallet at `wallet.localhost:2000`.
Log in with OAUTH2.



Logging in with OAUTH2 directs to a payment view. However, the total available balance is 0 CC. The Renewal fee is 100 CC.

Org1::1220a4c34fbff9...

Logout

Total Available Balance: 0 CC / 0 USD

Send 100 CC to

AppProvider::1220761...

via AppProvider::1220761...

Description:
"Activate for one month"

You'll pay:

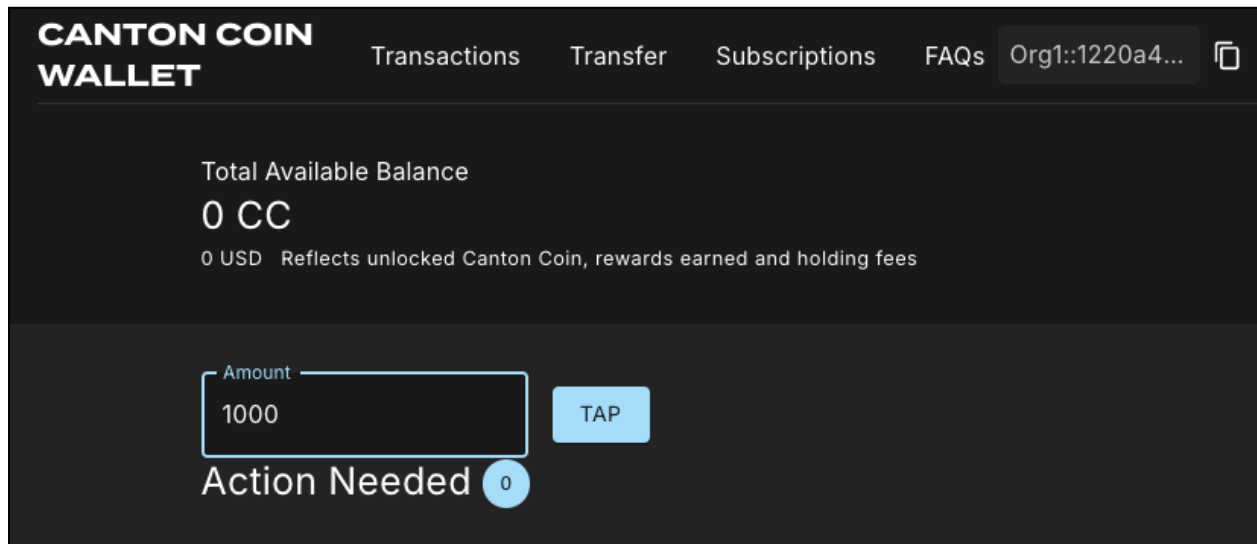
100 CC

0.5 USD @ 200 CC/USD

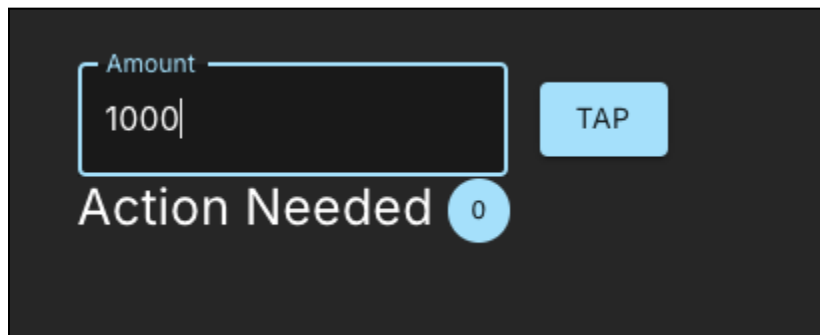
Fees will be added.

SEND PAYMENT

Open CC Wallet from the terminal. In the `quickstart/` directory, use `make open-sv-wallet`.



Populate the wallet with CCs.



Click “TAP.” LocalNet recognizes the update in your wallet’s value, as well as the total available CCs in the CN.

CANTON COIN WALLET

TransactionsTransferSubscriptionsFAQsOrg1::1220a4...

SELF-GRANT
FEATURED APP RIGHTS

PRE-APPROVE ALL
INCOMING TRANSFERS

Logout

Total Available Balance
200,000 CC
1,000 USD Reflects unlocked Canton Coin, rewards earned and holding fees

Amount
1000

TAP

Action Needed 0

No transfer offers available

Transaction History

TYPE	DATE	SENDER OR RECEIVER	REWARDS CREATED	BALANCE CHANGE
Balance Change (Tap)	2025-02-12T17:48:38-06:00			+200,000 CC +1,000 USD @ 200 CC/USD


Return to the License Renewal Request as Org1. Click Pay.


Canton Network QuickstartHomeAppinstallRequestsAppinstallsLicensesLicenseRenewalRequestsOrg1Logout

License Renewal Requests




Contract ID	Provider	User	DSO	License Number	Fee (CC)	Extension Duration	Actions
00c9285b226956419d...	AppProvider::12...	Org1::1220e69b...	DSO::12209a3af...	1	100	30 days	<div>Pay</div>

The CC Wallet balance is now sufficient to send payment to the Provider.

Org1::1220a4c34fbff9... 

 Logout

Total Available Balance: 200,000 CC / 1,000 USD


Send 100 CC to
AppProvider::1220761... 
via AppProvider::1220761... 
Description:
"Activate for one month"

You'll pay:

100 CC
0.5 USD @ 200 CC/USD
Fees will be added.

SEND PAYMENT

Return to the AppProvider's License Renewal Requests View.
The AppProvider may now Complete the Renewal.

Canton Network Quickstart Home AppInstallRequests Appinstalls Licenses LicenseRenewalRequests OAuth2								AppProvider Logout
License Renewal Requests								
Contract ID	Provider	User	DSO	License Number	Fee (CC)	Extension Duration	Actions	
0057f6843c8a84ba36...	AppProvider::12...	Org1::1220a4c3...	DSO::122041e7...	1	100	30 days	Complete Renewal	

Clicking "Complete Renewal" results in a Success.

Canton Network Quickstart Home AppInstallRequests Appinstalls Licenses LicenseRenewalRequests OAuth2								AppProvider Logout
License Renewal Requests								
No License Renewal Requests found.								

Org1's Licenses view shows the activated license.

Canton Network Quickstart

[Home](#)

[AppInstallRequests](#)

[AppInstalls](#)

[Licenses](#)

[LicenseRenewalRequests](#)

Org1

[Logout](#)

Licenses

Existing Licenses

Contract ID	DSO	Provider	User	Params	Expires At	License Num
005bf9f0ebf30226f3dbb1...	DSO::122041e769...	AppProvider::1220...	Org1::1220a4c34fb...	{"meta":{"data":{}}}	2025-03-14T23:49:57.656...	1

Congratulations. You've successfully created and activated a license with a payment transfer!

Canton Console

The Canton Console connects to the running application ledger. The console allows a developer to bypass the UI to interact with the CN in a more direct manner. For example, in Canton Console you can connect to the Participant to see the location of the Participant and their domain.

Activate the Canton Console in a terminal from the `quickstart/` directory. Run:

```
make console
```

After the console initiates, run the `participant` and `participant.domains` commands, respectively.

`participant` returns their location in the ledger.

`participant.domains` shows the Participant's domain.

```
@ participant
res0: com.digitalasset.canton.console.RemoteParticipantReference =
Participant 'participant'

@ participant.domains
res1: participant.domains.type =
com.digitalasset.canton.console.commands.ParticipantAdministration$do
mains$@2da16d31
```

Daml Shell

The Daml Shell connects to the running PQS database of the application provider's Participant. In the Shell, the assets and their details are available in real time.

Run the following commands to see the data:

`active` - shows unique identifiers and the asset count

`active quickstart-assets:Assets.Main:Asset` - shows the asset details

`archives quickstart-assets:Assets.Main:Asset` - shows any archived assets

```
postgres-splice:5432/scribe 2751 → 2793> active
```

Identifier	Type	Count
quickstart-assets:Assets.Main:Asset	Template	3

```
postgres-splice:5432/scribe 2751 → 2798> active quickstart-assets:Assets.Main:Asset
```

Created at	Contract ID	Contract Key	Payload
2759	0075859ff14f2dd776fb...		label: Memory Chip owner: Org1::12204cfe9a5034bd36abb0f89b2a2f7cda96ef468b72b0da36e0dd4f08acde7e3d39
2765	0077e877e2b938f28def...		label: Provider Asset owner: AppProvider::12204cfe9a5034bd36abb0f89b2a2f7cda96ef468b72b0da36e0dd4f08acde7e3d39
2793	008504f64abb6611f510...		label: Org Asset owner: Org1::12204cfe9a5034bd36abb0f89b2a2f7cda96ef468b72b0da36e0dd4f08acde7e3d39

```
postgres-splice:5432/scribe 2751 → 2798> archives quickstart-assets:Assets.Main:Asset
```

Created at	Archived at	Contract ID	Contract Key	Payload
2752	2798	007aa1d122548af71639...		label: DevNet Asset #1 owner: Org1::12204cfe9a5034bd36abb0f89b2a2f7cda96ef468b72b0da36e0dd4f08acde7e3d39

```
postgres-splice:5432/scribe 2751 → 2798> █
```

Connect to DevNet

Stop the LocalNet containers to change the connection from LocalNet to DevNet.

In the terminal, run:

```
make stop
make clean-all
```

To edit the connection and observability parameters run:

```
make setup
```

When prompted to enable LocalNet, enter "n". This enables DevNet

Optionally, enter “Y” to enable observability. This starts additional containers which may require more memory for Docker.

```
((base) quickstart ~ % make setup
Starting setup...
Enable LocalNet? (Y/n): n
  LOCALNET_ENABLED set to 'false'.

Enable Observability? (Y/n): Y
  OBSERVABILITY_ENABLED set to 'true'.

.env.local updated successfully.
```

The application is now connected to DevNet.

In DevNet mode, you can configure a non-default `SPONSOR_SV_ADDRESS`, `SCAN_ADDRESS` and `ONBOARDING_SECRET_URL` or `ONBOARDING_SECRET` in the `quickstart/.env` file.

Connecting to DevNet requires a connection to an [approved SV](#). If your organization provides access to the DAML-VPN, then connect to it to access the Digital Asset-sponsored SV. Your organization may sponsor another CN-approved SV. If this is the case, speak with your administrator for privileged access. Review the DevNet Global Synchronizer documentation to learn more about the [SV onboarding process](#).

In an incognito browser navigate to `localhost:3000/login`. Login as the `Org1` user and create and archive assets, as before. Logout and do the same as the `AppProvider`.

SV UIs

Navigate to `localhost:4000` for a list of viewable Web UI options.

Click “Visit Super Validator Web UI” to view information from the validator.

Super Validator UIs

Wallet Web UI

Interface for managing user wallets.

[Visit Wallet Web UI](#)

Super Validator Web UI

Interface to manage Super Validator functionalities.

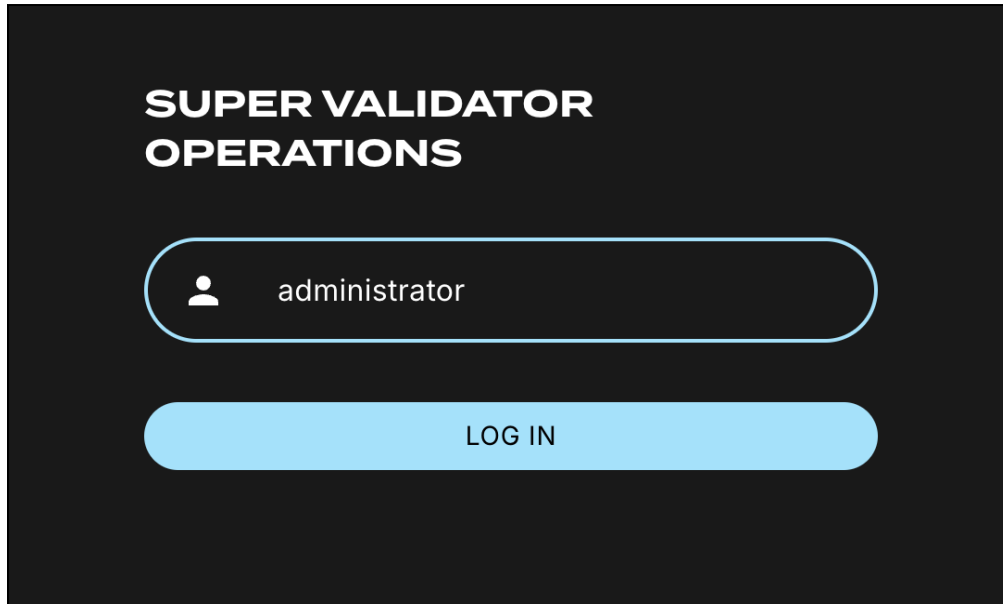
[Visit Super Validator Web UI](#)

Scan Web UI

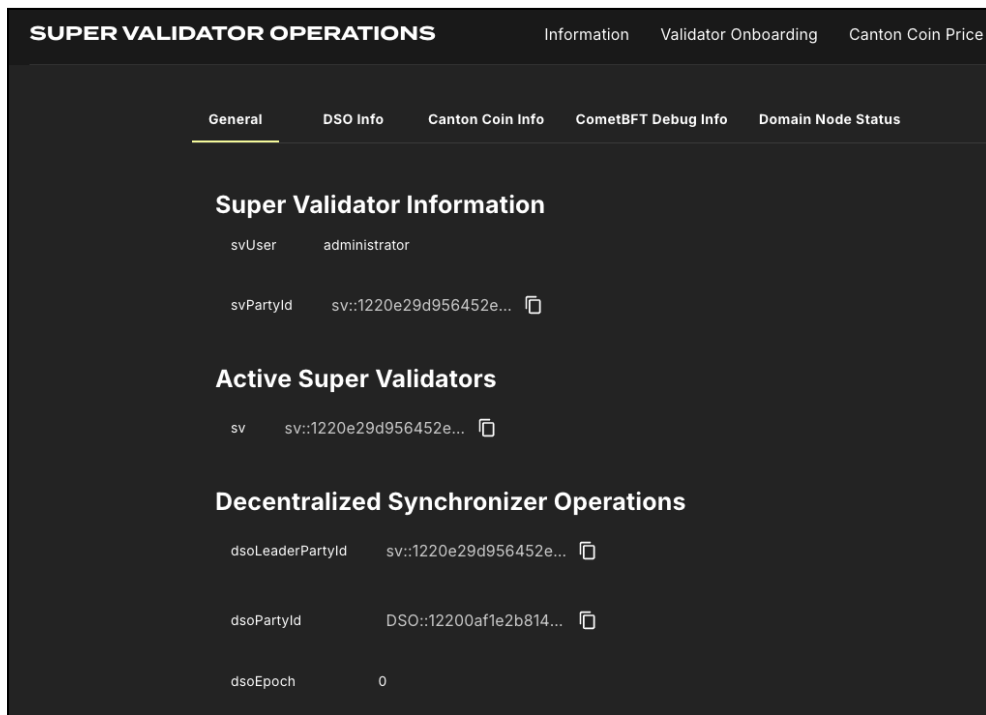
Interface to monitor transactions.

[Visit Scan Web UI](#)

Login as 'administrator'.



The UI shows information about the SV and lists the active SVs.



The Validator Onboarding menu allows for the creation of validator onboarding secrets.

SUPER VALIDATOR OPERATIONS

InformationValidator OnboardingCanton Coin PriceDelegate ElectionGovernanceLogout

Validator Onboarding Secrets

CREATE A VALIDATOR ONBOARDING SECRET

EXPIRES AT	ONBOARDING SECRET
02/13/2025 15:13	quickstart-jpmiller-1::122077f1ae74e...
02/13/2025 15:13	quickstart-jpmiller-1::12203783f656...
02/13/2025 15:10	sv::122016716056ad8277a9220b78...

Validator Licenses

CREATED AT	VALIDATOR	SPONSOR
02/13/2025 15:13	quickstart-jpmiller-1::122077f1ae74e...	sv::122016716056ad8... THIS SV
02/13/2025 15:13	quickstart-jpmiller-1::12203783f656...	sv::122016716056ad8... THIS SV
02/13/2025 15:10	sv::122016716056ad8277a9220b78...	sv::122016716056ad8... THIS SV

The CC Price menu option has an option to set the price for open mining rounds.

SUPER VALIDATOR OPERATIONS

InformationValidator OnboardingCanton Coin PriceDelegate ElectionGovernanceLogout

Canton Coin Price for Next Open Mining Round

0.005 USD

Median of Canton Coin prices voted by all Super Validators

Your Desired Canton Coin Price

Amount

1.0

UPDATE

CANCEL

Desired Canton Coin Prices of Other Super Validators

SUPER VALIDATOR	SUPER VALIDATOR PARTY ID	DESIRED CANTON COIN PRICE	LAST UPDATED AT
-----------------	--------------------------	---------------------------	-----------------

Open Mining Rounds

ROUND	CANTON COIN PRICE	OPENS AT	TARGET CLOSSES AT
6	0.005 USD	12/11/2024 11:19	12/11/2024 11:39
5	0.005 USD	12/11/2024 11:09	12/11/2024 11:29
4	0.005 USD	12/11/2024 10:58	12/11/2024 11:18

Update the price of the CC.

SUPER VALIDATOR OPERATIONS

InformationValidator OnboardingCanton Coin Price

Canton Coin Price for Next Open Mining Round

1 USD

Median of Canton Coin prices voted by all Super Validators

Your Desired Canton Coin Price

1 USD

The updated coin price reflects the new open mining rounds.

Desired Canton Coin Prices of Other Super Validators			
SUPER VALIDATOR	SUPER VALIDATOR PARTY ID	DESIRED CANTON COIN PRICE	LAST UPDATED AT
Open Mining Rounds			
ROUND	CANTON COIN PRICE	OPENS AT	TARGET CLOSES AT
7	1 USD	12/11/2024 11:29	12/11/2024 11:49
6	0.005 USD	12/11/2024 11:19	12/11/2024 11:39
5	0.005 USD	12/11/2024 11:09	12/11/2024 11:29

Navigate to the CC Scan Web UI by returning to `localhost:4000` and select “Visit Scan Web UI” or navigate directly to <http://scan.localhost:4000/>.

The activity view shows the total CC balance and the Validator rewards.

Explore, search and find answers to current network configuration details.

The content on this page is computed as of round: 14

TOTAL CANTON COIN BALANCE
7,326,239.93606952 CC
36,631.1996803476 USD

TOTAL APP & VALIDATOR REWARDS
20,520 CC
102.6 USD

Select the Network Info menu to view SV identification.

SUPER VALIDATOR OPERATIONS[Information](#)[Validator Onboarding](#)[Canton Coin Price](#)[Delegate Election](#)[Governance](#)

[General](#)[DSO Info](#)[Canton Coin Info](#)[CometBFT Debug Info](#)[Domain Node Status](#)

Super Validator Information
svUser administrator
svPartyId sv::1220e29d956452e...

Active Super Validators
sv sv::1220e29d956452e...

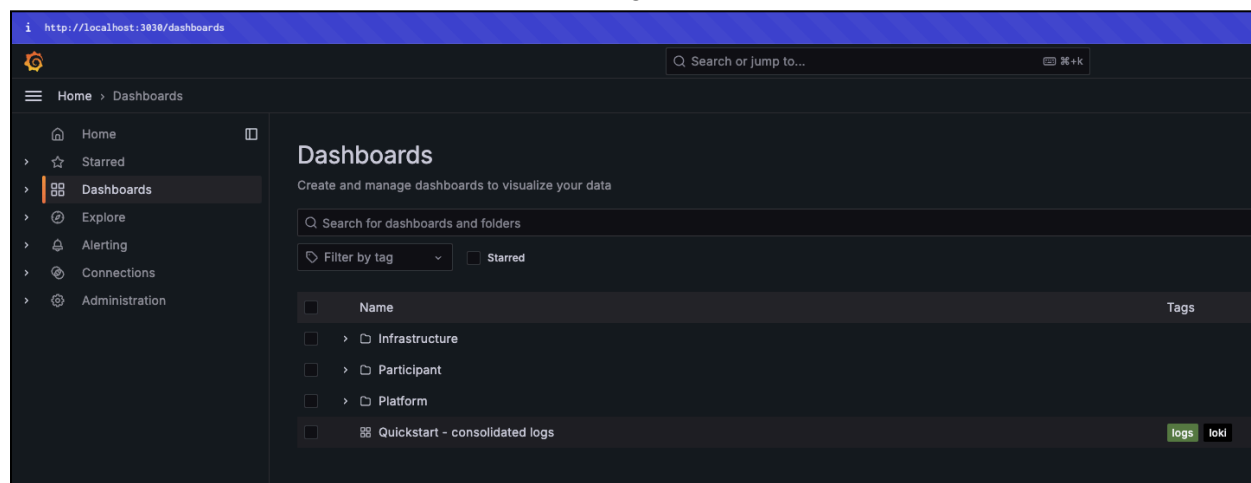
Decentralized Synchronizer Operations
dsoLeaderPartyId sv::1220e29d956452e...
dsoPartyId DSO::12200af1e2b814...
dsoEpoch 0

The Validators menu shows that the local validator has been registered with the SV.

CANTON COIN SCAN				Canton Coin Activity	Network Info	Governance	Validators
Validator Licenses							
CREATED AT	VALIDATOR			SPONSOR			
02/11/2025 08:06	sv::12201b7f2459db0f8...			sv::12201b7f2...	THIS SV		
02/11/2025 08:05	quickstart-jpmiller-1::12...			sv::12201b7f2...	THIS SV		
02/11/2025 08:05	quickstart-jpmiller-1::12...			sv::12201b7f2...	THIS SV		

Observability Dashboard

In a web browser, navigate to <http://localhost:3030/dashboards> to view the observability dashboards. Select “Quickstart - consolidated logs”.



The default view shows a running stream of all services.

Services: All Levels: All Search: Enter variable value Trace ID: Enter variable value

Logs

```
> 2024-12-11 11:25:17.113 [participant] Here is our list of the 15 most expensive database queries for daml.db-storage.write.executor with total of 1.2 s:
count= 167 mean= 6.84 ms total= 1.0 s com.digitalasset.canton.time.Clock$Queue$.SanonFunRun$1(Clock.scala:77)
count= 2 mean= 48.66 ms total= 0.1 s com.digitalasset.canton.store.db.DbSequencedEventStore$.SanonFunRun$2(DbSequencedEventStore.scala:121)
count= 168 mean= 0.58 ms total= 0.1 s com.unknown
count= 2 mean= 1.87 ms total= 0.0 s com.digitalasset.canton.participant.store.db.DbInFlightSubmissionStore$.observeSequencing(DbInFlightSubmissionStore.scala:188)
count= 2 mean= 0.84 ms total= 0.0 s com.digitalasset.canton.participant.store.db.DbInFlightSubmissionStore$.delete(DbInFlightSubmissionStore.scala:276)
count= 2 mean= 0.83 ms total= 0.0 s com.digitalasset.canton.participant.store.db.DbInFlightSubmissionStore$.SanonFunDelete$6(DbInFlightSubmissionStore.scala:276)
> 2024-12-11 11:25:16.977 [validator.backend] Here is our list of the 15 most expensive database queries for db-storage.general.executor with total of 0.2 s:
count= 8 mean= 6.83 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DmMultiDomainAcStore$.SanonFunListExpiredFrom$loadExpiry$3(DbMultiDomainAcStore.scala:288)
count= 4 mean= 8.98 ms total= 0.0 s org.ifdecentralizedtrust.splice.validator.store.db.DbValidatorStore$.SanonFunLookupValidatorLicense$withOffset$1(DbValidatorStore.scala:297)
count= 2 mean= 16.78 ms total= 0.0 s org.ifdecentralizedtrust.splice.validator.store.db.DbValidatorStore$.lookupInstallByParty(DbValidatorStore.scala:184)
count= 4 mean= 0.85 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DmMultiDomainAcStore$.SanonFunListAssignedContract$loadDomain$1(DbMultiDomainAcStore.scala:334)
count= 3 mean= 0.13 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DmMultiDomainAcStore$.SanonFunListAssignedContracts$1(DbMultiDomainAcStore.scala:254)
count= 5 mean= 4.76 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DmMultiDomainAcStore$.SanonFunListContracts$paginated$1(DbMultiDomainAcStore.scala:226)
count= 2 mean= 4.42 ms total= 0.0 s org.ifdecentralizedtrust.splice.validator.store.db.DbValidatorStore$.SanonFunListExpiringTransferPreapprovals$1(DbValidatorStore.scala:261)
> 2024-12-11 11:25:16.976 [validator.backend] Using the client-cache (validUntil Some(2024-12-11T17:34:21.816Z123)) to load following issuing rounds: Vector(11282, 11284, 11285), and following open rounds: Vector(11286, 11287, 11288).
> 2024-12-11 11:25:16.938 [sequencer] Here is our list of the 15 most expensive database queries for daml.db-storage.general.executor with total of 0.0 s:
count= 1 mean= 9.67 ms total= 0.0 s com.digitalasset.canton.store.db.DbCursorPreheadStore$.prehead(DbCursorPreheadStore.scala:48)
> 2024-12-11 11:25:16.318 [sv] Completed processing PeriodicTask(for = 2024-12-11T17:25:16.209Z123) with outcome: Updated domain params to 1
> 2024-12-11 11:25:16.317 [sv] Request (tid:f3d2536fee7e5c8b9c59b451d329e1e) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: succeeded(OK)
> 2024-12-11 11:25:16.317 [sv] Request (tid:f3d2536fee7e5c8b9c59b451d329e1e) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: received a message
> 2024-12-11 11:25:16.312 [sv] Request (tid:f3d2536fee7e5c8b9c59b451d329e1e) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: sending request
> 2024-12-11 11:25:16.311 [sv] Request (tid:c98649174f298a81f8ead11cc043785) com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConnectedDomains to participant-sv:5802: succeeded(OK)
> 2024-12-11 11:25:16.310 [sv] Request (tid:c98649174f298a81f8ead11cc043785) com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConnectedDomains to participant-sv:5802: received a message
> 2024-12-11 11:25:16.383 [sv] Request (tid:c98649174f298a81f8ead11cc043785) com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConnectedDomains to participant-sv:5802: sending request
> 2024-12-11 11:25:15.965 [validator.backend] Completed processing PeriodicTask(for = 2024-12-11T17:25:15.913Z123) with outcome: Updated domain params to 1
> 2024-12-11 11:25:15.960 [validator.backend] Request (tid:fbaef8ba945723c94da3fa741366f5) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: succeeded(OK)
> 2024-12-11 11:25:15.960 [validator.backend] Request (tid:fbaef8ba945723c94da3fa741366f5) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: received a message
> 2024-12-11 11:25:15.943 [validator.backend] Request (tid:fbaef8ba945723c94da3fa741366f5) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: sending request
> 2024-12-11 11:25:15.940 [validator.backend] Request (tid:d447c2b28e28c692b722c3b7d8d4dfc0) com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConnectedDomains to participant-sv:5802: succeeded(OK)
```

Change the services filter from “All” to “participant” to view participant logs. Select any log entry to view its details.

Services: participant Levels: All Search: Enter variable value Trace ID: Enter variable value

Logs

```
> 2024-12-11 11:26:19.742 [participant] Request com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConfiguredDomains by /172.19.0.18:44912: completed
```

Fields	Value
timestamp	2024-12-11T17:26:19.742Z
version	1
container_id	f54d928d96fcd9244003a77ab88ce42b8becd2be66c72f3c81e819a1faef8e67
container_name	/participant
detected_level	debug
fluent_tag	f54d928d96fc
level	DEBUG
level_value	10000
logger_name	c.d.c.n.g.ApiRequestLogger:participant=participant
message	Request com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConfiguredDomains by /172.19.0.18:44912: completed
service_name	participant
source	stdout
thread_name	canton-env-ec-278
trace_id	5241b43733c65a4015518a2b92b26e50

Links

Trace ID	Tempo
5241b43733c65a4015518a2b92b26e50	

```
> 2024-12-11 11:26:19.740 [participant] Request com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConfiguredDomains by /172.19.0.18:44912: succeeded(OK)
> 2024-12-11 11:26:19.740 [participant] Request com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConfiguredDomains by /172.19.0.18:44912: sending response
Request tid:5241b43733c65a4015518a2b92b26e50
> 2024-12-11 11:26:19.739 [participant] Request com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConfiguredDomains by /172.19.0.18:44912: received a message
Request tid:5241b43733c65a4015518a2b92b26e50
> 2024-12-11 11:26:19.735 [participant] Request com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConfiguredDomains by /172.19.0.18:44912: succeeded(OK)
> 2024-12-11 11:26:19.735 [participant] Request com.digitalasset.canton.admin.participant.v38.DomainConnectivityService/ListConfiguredDomains by /172.19.0.18:44912: completed
```

Next Steps

You’ve completed a business operation in the CN-QS and have been introduced to the basics of the Canton Console, Daml Shell, and the SV UIs.

Learn more about Daml Shell and the project structure in the [Project Structure Guide](#).