



# 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](mailto: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 25 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 an incognito browser.

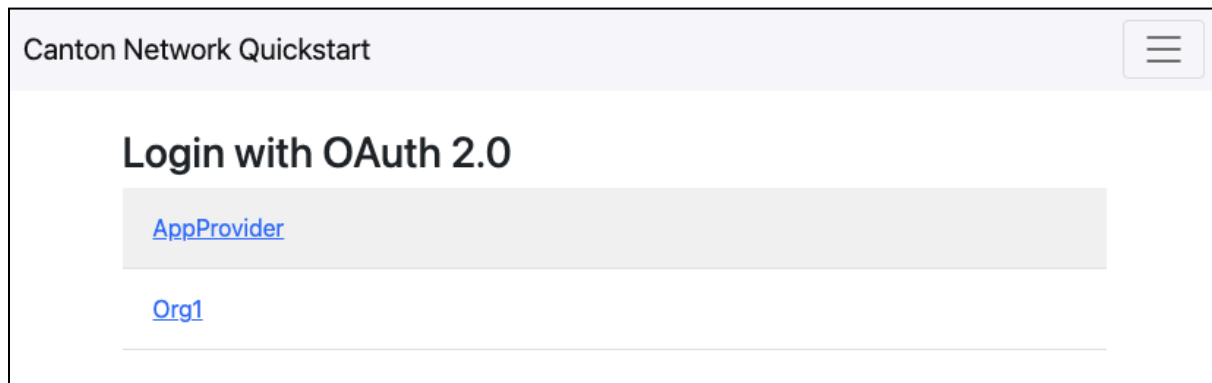
Navigate to:

```
localhost:3000/login
```

💡 Currently, `localhost` URLs do not work in Safari. We are working on a solution and apologize for the inconvenience.

Alternatively, in the terminal, from `quickstart/` run:

```
make open-app-ui
```



Login as the AppProvider.

## Mock OAuth2 Server Example

Organization End User:

Sign-in

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
```

This command creates 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":"1220aebcd64fc960c2aeeec834d415967899994f21a69ef9cab5639b8521169a0ca67","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 25 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":{}}	<button>Accept</button> <button>Reject</button> <button>Cancel</button>

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	<button>Actions</button>

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	<button>Create License</button> <button>Cancel Install</button> <button>Close</button>

The License is created.

Canton Network Quickstart Home AppInstallRequests Appinstalls Licenses LicenseRenewalRequests OAuth2 AppProvider Logout

### App Installs

#### Existing Appinstalls

Success

Success: License created with ID:  
0050da1bc6f07e860545cf6511a8308da21d2bb4  
69fbcee406d8753e13f651fbf2ca10122059ef8fec  
86ff1c373e0734b0d74a66e50c8c1eccc7c8f1cb  
6755137ec10e8e4

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

Notice in the screenshot above that the field `User` 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.”

### 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

An “Actions for License” modal opens with an option to renew or expire the license. Per the Daml contract, licenses are created in an expired state. To activate the license, it must be renewed.



AppIntellRequestsAppIntellLicensesLicenseRenewalRequestsOAuth2

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							
<a href="#">Home</a> <a href="#">AppInstallRequests</a> <a href="#">AppInstalls</a> <a href="#">Licenses</a> <a href="#">LicenseRenewalRequests</a> <a href="#">OAuth2</a> <a href="#">AppProvider</a> <a href="#">Logout</a>							
<b>License Renewal Requests</b>							
Contract ID	Provider	User	DSO	License Number	Fee (CC)	Extension Duration	Actions
00c9285b226956419d...	AppProvider::12...	Org1::1220e69b...	DSO::12209a3af...	1	100	30 days	<a href="#">Complete Renewal</a>

💡 For the next step we recommend opening a separate browser in incognito mode. Each user, AppProvider, and Org1, should be logged into separate browsers for most consistent results. For example, if you logged into AppProvider using Chrome, you would use Firefox when logging into Org1.

Navigate to <http://localhost:3000/login> using a separate browser in incognito or private mode.

Canton Network Quickstart

## Login with OAuth 2.0

[AppProvider](#)

[Org1](#)

Login as an Org1 user.

## Mock OAuth2 Server Example

Organization End User:

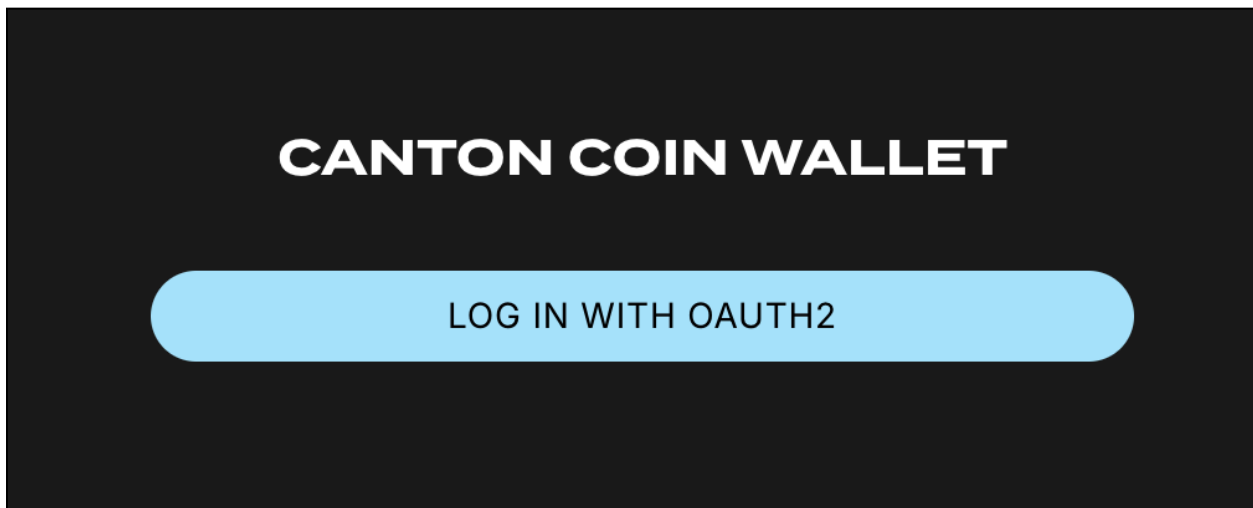
Org1

Sign-in

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

Canton Network Quickstart Home AppInstallRequests AppInstalls Licenses LicenseRenewalRequests							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.



Complete the log in.

## Mock OAuth2 Server Example

---

Organization End User:

Org1

Sign-in

Logging in 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:

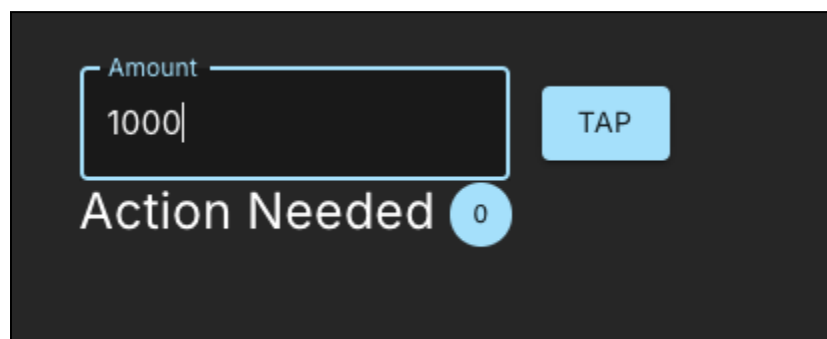
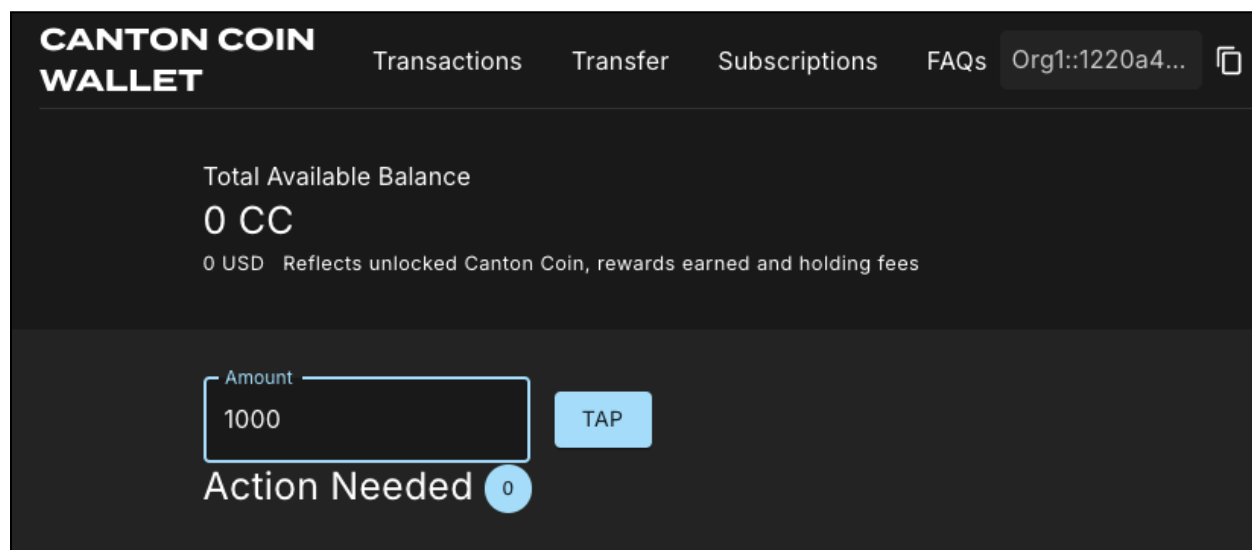
100 CC

0.5 USD @ 200 CC/USD

Fees will be added.

SEND PAYMENT

The wallet must be populated with CC in order to fulfill the transaction.  
Navigate to `http://wallet.localhost:2000` to enter the CC Wallet.  
In CC Wallet, populate the wallet with \$1,000, or the equivalent of 200,000 CC.



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 Quickstart	Home	AppinstallRequests	Appinstalls	Licenses	LicenseRenewalRequests	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	Pay

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
<b>License Renewal Requests</b>								
Contract ID	Provider	User	DSO	License Number	Fee (CC)	Extension Duration	Actions	
0057f6843c8a84ba36...	AppProvider::12...	Org1::1220a4c3...	DSO::122041e7...	1	100	30 days	<button>Complete Renewal</button>	

Clicking "Complete Renewal" results in a Success.

Canton Network Quickstart	Home	AppInstallRequests	AppInstalls	Licenses	LicenseRenewalRequests	OAuth2	AppProvider	Logout
<b>License Renewal Requests</b>								
No License Renewal Requests found.								
<div>Success</div> <div>Success: License renewal completed successfully</div>								

Org1's Licenses view shows the activated license.

Canton Network Quickstart	Home	AppInstallRequests	AppInstalls	Licenses	LicenseRenewalRequests	Org1	Logout
<b>Licenses</b>							
<b>Existing Licenses</b>							
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
res0: com.digitalasset.canton.console.RemoteParticipantReference = Participant 'participant'
```

`participant.domains`

Shows the Participant's domain.

```
[@ participant.domains
res1: participant.domains.type = com.digitalasset.canton.console.commands.ParticipantAdministration$domains$@4f4c3934
```

`participant.health.ping(participant)`

Runs a health ping. The ping makes a round trip through the CN blockchain. Pinging yourself validates communication throughout the entire network.

```
[@ participant.health.ping(participant)
res0: Duration = 4979 milliseconds
```

## 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 shell from `quickstart/` in the terminal with:

```
make shell
```

Run the following commands to see the data:

```
active
```

Shows unique identifiers and the asset count

```
postgres-splice-app-provider:5432/scribe> active
```

Identifier	Type	Count
quickstart-licensing:Licensing.AppInstall:AppInstall	Template	1
quickstart-licensing:Licensing.License:License	Template	1
splice-amulet:Splice.Amulet:Amulet	Template	1
splice-amulet:Splice.Amulet:ValidatorRight	Template	1
splice-wallet:Splice.Wallet.Install:WalletAppInstall	Template	1

```
active quickstart-licensing:Licensing.License:License
```

List the license details.

```
postgres-splice-app-provider:5432/scribe 6d → f7> active quickstart-licensing:Licensing.License:License
```

Created at	Contract ID	Contract Key	Payload
a9	000cd68ca7d2cf95454b...		dso: DSO::12203a329668884fac6377f41c924df6a11c59f3be909737d27799252930e537c42b user: Org1::12209d2965deec586b4a6d12b80e535bb52407fad54dc2dd88575291780ed5fd9ff4 params: meta: values: provider: AppProvider::12206e5249b12cd9fd05e9b25894c0663b73a18c90bacc7f2d48e7958157b510358 expiresAt: 2025-03-16T21:59:38.403435Z licenseNum: 1

```
active quickstart-licensing:Licensing.License:LicenseRenewalRequest
```

Displays license renewal request details.

```
archives quickstart-licensing:Licensing.AppInstall:AppInstallRequest
```

Shows any archived license(s).

```
postgres-splice-app-provider:5432/scribe 6d → f7> archives quickstart-licensing:Licensing.AppInstall:AppInstallRequest
```

Created at	Archive ID	Contract ID	Contract Key	Payload
6f	75	00e906b2720a9b7965a3...		dso: DSO::12203a329668884fac6377f41c924df6a11c59f3be909737d27799252930e537c42b meta: values: user: Org1::12209d2965deec586b4a6d12b80e535bb52407fad54dc2dd88575291780ed5fd9ff4 provider: AppProvider::12206e5249b12cd9fd05e9b25894c0663b73a18c90bacc7f2d48e7958157b510358

## 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](#).

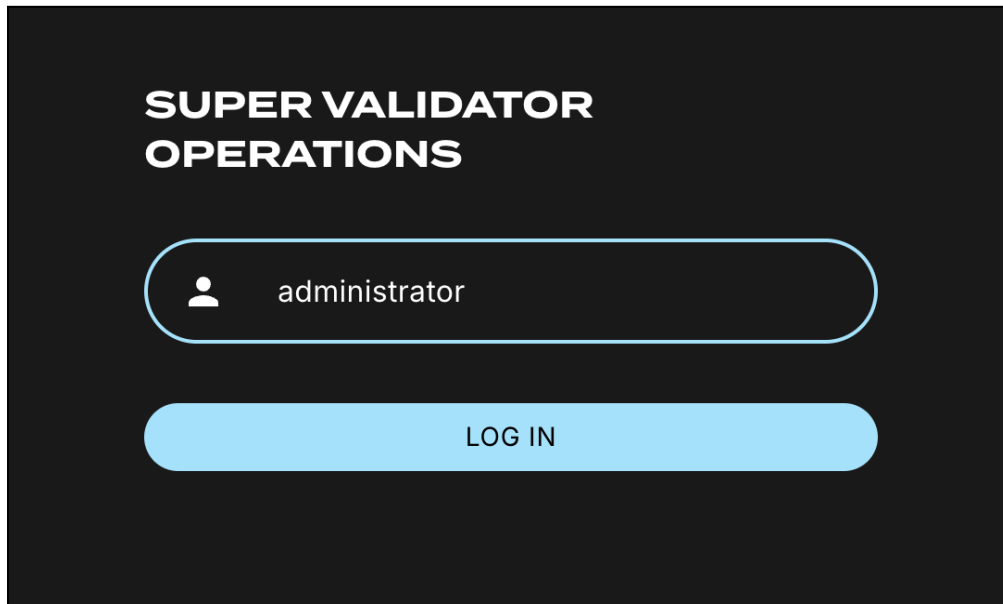
If you run into errors when making DevNet operations, double check that the DevNet VPN is active. DevNet VPNs may timeout, especially if left unattended for extended periods of time.

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 `http://sv.localhost:4000/` for the Super Validator Web UI. The SV view displays data directly from the validator in a GUI that is straightforward to navigate.

Login as 'administrator'.



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

SUPER VALIDATOR OPERATIONS

InformationValidator OnboardingCanton Coin Price

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 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... <a href="#">THIS SV</a>
02/13/2025 15:13	quickstart-jpmiller-1::12203783f656...	sv::122016716056ad8... <a href="#">THIS SV</a>
02/13/2025 15:10	sv::122016716056ad8277a9220b78...	sv::122016716056ad8... <a href="#">THIS SV</a>

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

## Canton Coin Scan

Navigate to the CC Scan Web UI at <http://scan.localhost:4000/>.

The default 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**

InformationValidator OnboardingCanton Coin PriceDelegate ElectionGovernance

GeneralDSO InfoCanton Coin InfoCometBFT Debug InfoDomain Node Status

#### Super Validator Information

svUser	administrator
svPartyId	sv::1220e29d956452e...

#### Active Super Validators

sv	sv::1220e29d956452e...
----	------------------------

#### Decentralized Synchronizer Operations

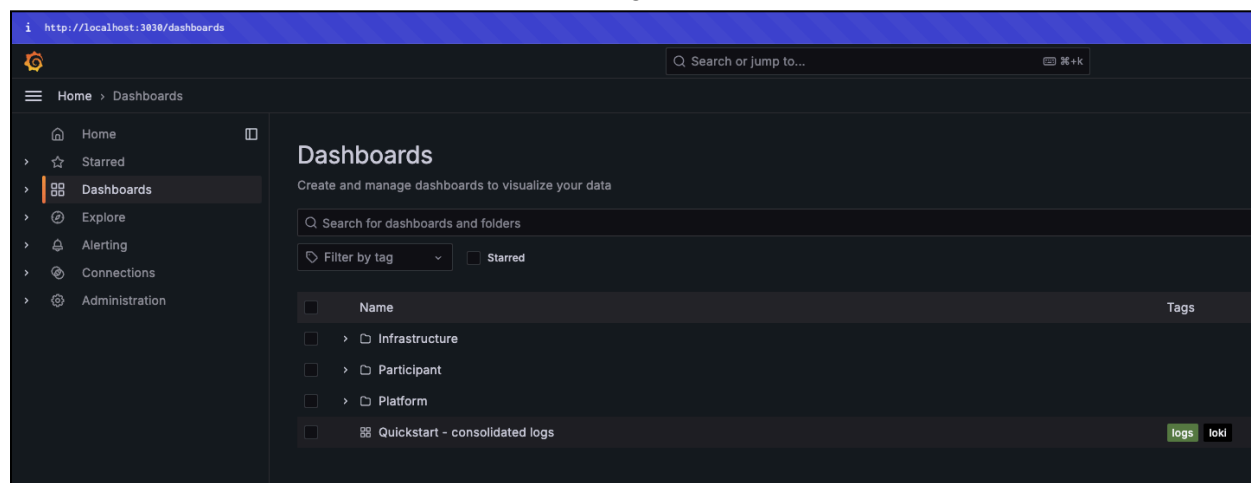
dsoLeaderPartyId	sv::1220e29d956452e...
dsoPartyId	DSO::12200af1e2b814...
dsoEpoch	0

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\$Queued.SanonFunRun\$1(Clock.scala:77)

count= 2 mean= 48.66 ms total= 0.1 s com.digitalasset.canton.store.db.DbSequencedEventStore.SanonFunStore\$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= 6.83 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 com.digitalasset.canton.store.db.DbSequencedEventStore.SanonFunStore\$2(DbSequencedEventStore.scala:121) with total of 0.2 s:

count= 8 mean= 6.83 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore.SanonFunListExpiredFromPayloadExpiry\$3(DbMultiDomainAcStore.scala:288)

count= 4 mean= 8.98 ms total= 0.0 s org.ifdecentralizedtrust.splice.validator.store.db.DbValidatorStore.SanonFunLookupValidatorLicenseWithOffset\$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= 6.85 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore.SanonFunListAssignedContractAcctDomain\$1(DbMultiDomainAcStore.scala:334)

count= 3 mean= 8.13 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore.SanonFunListAssignedContracts\$1(DbMultiDomainAcStore.scala:254)

count= 5 mean= 4.76 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore.SanonFunListContractsPaginated\$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:f623536fee7e5c8b9c591b451d329e1) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: succeeded(OK)

> 2024-12-11 11:25:16.317 [sv] Request (tid:f623536fee7e5c8b9c591b451d329e1) 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:f623536fee7e5c8b9c591b451d329e1) 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:fbaef8b9645723c94da3fa741366f5) 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:fbaef8b9645723c94da3fa741366f5) 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:fbaef8b9645723c94da3fa741366f5) 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:d447c2b28e28c692b722c3b7d8bdfc03) 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

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: 5241b43733c65a4015518a2b92b26e50 [Tempo](#)

> 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

> 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

> 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](#).