



Exploring The Demo

Canton Network Quickstart Guide | 2025

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Contents

[Exploring the Demo](#)

[Prerequisites](#)

[Walkthrough](#)

[Canton Console](#)

[Daml Shell](#)

[Connect to DevNet](#)

[Important: Migration ID for DevNet Connections](#)

[Configuring Non-Default DevNet Sponsors](#)

[SV UIs](#)

[Canton Coin Scan](#)

[Observability Dashboard](#)

[Next Steps](#)

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 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.

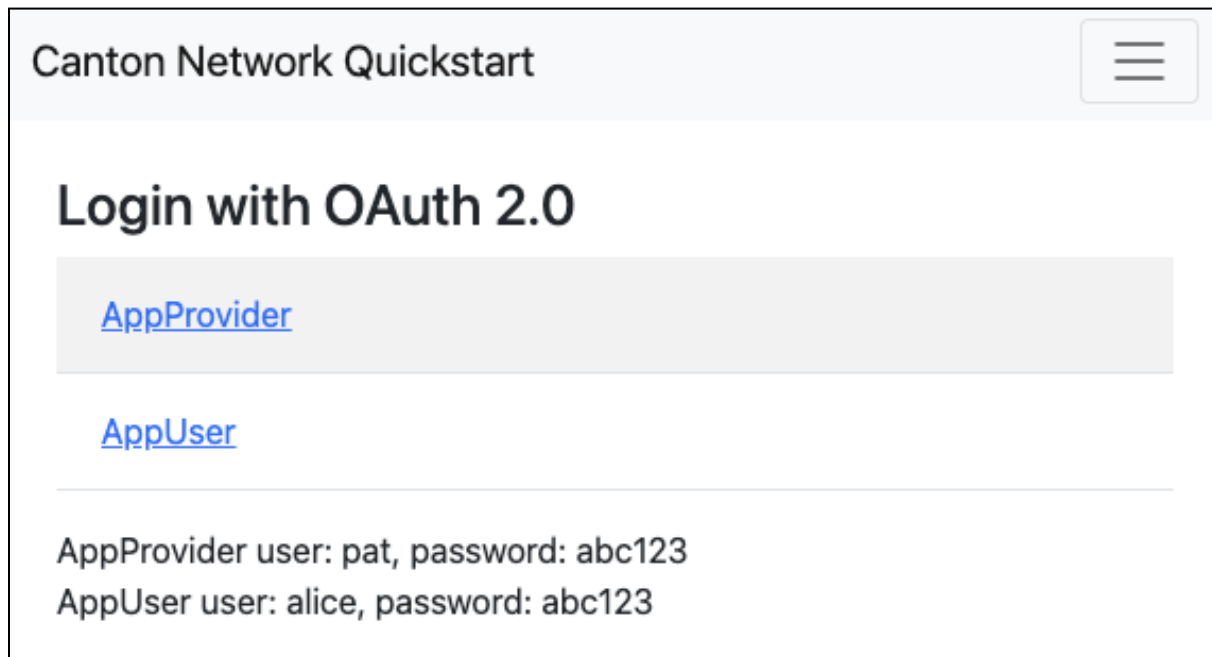
Navigate to:

```
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:

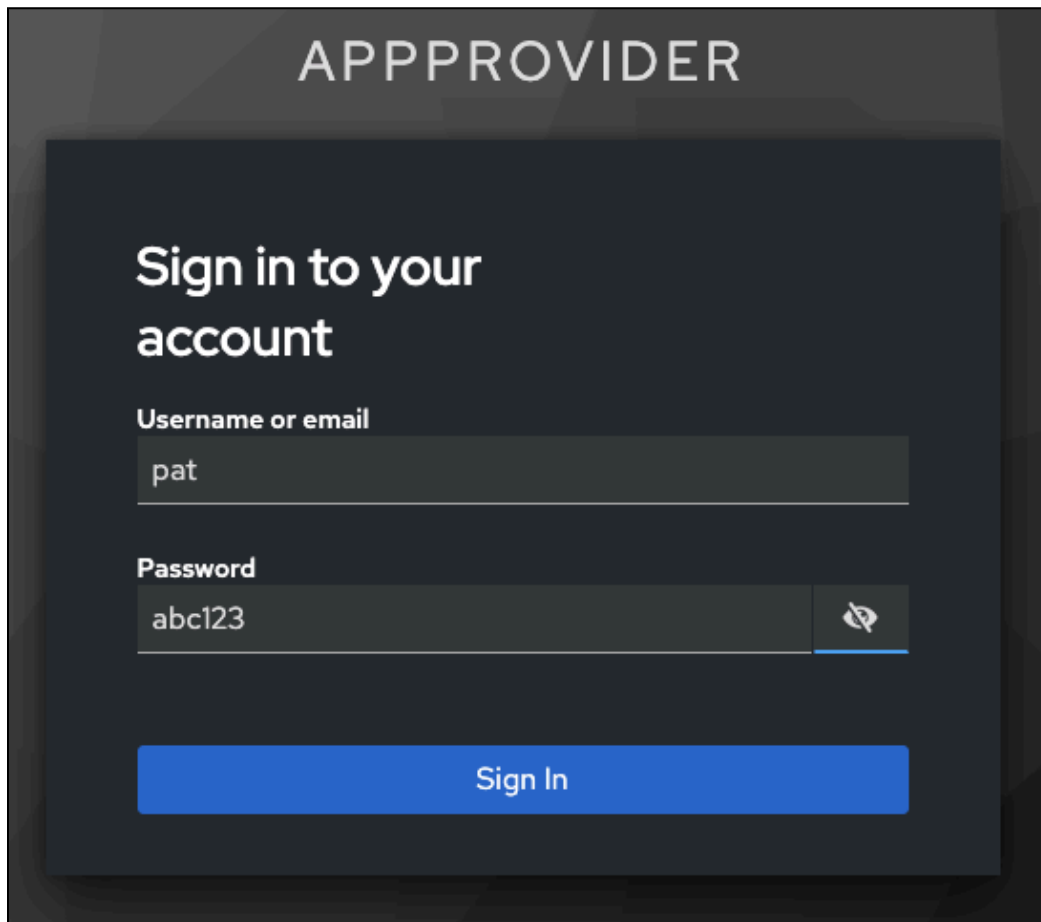
```
make open-app-ui
```



Make note that the AppProvider's username is "pat" and the password is "abc123" (all lowercase).

Login as the AppProvider.

Fill in the login credentials: username: pat, password: abc123



Select “AppInstalls” in the menu.

Canton Network Quickstart

Home

AppInstalls

Licenses

Tenants

Pat the provider

App Installs

Note: Run `make create-app-install-request` to submit an AppInstallRequest

Contract ID	Status	DSO	Provider	User	Meta	# Licenses	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.

```

Return to the browser.

The install request appears in the list.

Click “Accept”.

Canton Network Quickstart Home AppInstalls Licenses Tenants Pat the provider

App Installs

Note: Run `make create-app-install-request` to submit an AppInstallRequest

Contract ID	Status	DSO	Provider	User	Meta	# Licenses	Actions
00a2f3c34cc5e...	REQUEST	DSO::12206b3c...	app_provider_q...	app_user_quick...	{"data":{}}	0	Accept Reject Cancel

The AppInstallRequest is Accepted. The actions update to create or cancel the license.

Canton Network Quickstart Home AppInstalls Licenses Tenants Pat the provider

App Installs

Note: Run `make create-app-install-request` to submit an AppInstallRequest

Success

Success: Accepted AppInstallRequest
00a2f3c34cc5edf660aeb6658cd7000541349f3e
5b2e3268330f1f3307067aa9fbca1012204022da1
3d54f9c9321e2401364a3123671ebcaddc47deb6
2ee39f9c81e4f0c9f

Contract ID	Status	DSO	Provider	User	Meta	# Licenses	Actions
00502121cb22e...	INSTALL	DSO::12206b3c...	app_provider_q...	app_user_quick...	{"data":{}}	0	Create License Cancel Install

Click “Create License”.

The license is created and the “# Licenses” field is updated.

Canton Network Quickstart Home AppInstalls Licenses Tenants Pat the provider

App Installs

Note: Run `make create-app-install-request` to submit an AppInstallRequest

Success

Success: Created License:
00be4bac78d731505d04d5e4964c9a297d9e479
54942c54809bc24d3b65cd0342bca101220a263
af0d31f1043cbb903c58b0479db70935d107ae0a
0a6299e510c84c402909

Contract ID	Status	DSO	Provider	User	Meta	# Licenses	Actions
00fd01728922...	INSTALL	DSO::12206b3c...	app_provider_q...	app_user_quick...	{"data":{}}	1	Create License Cancel Install

In the AppProvider, “Pat the provider’s,” account, navigate to the **Licenses** menu and select “Actions.”

Canton Network Quickstart Home AppInstalls Licenses Tenants Pat the provider

Licenses

License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension	Actions
00be4bac78d731505d04...	DSO::122...	app_provide...	app_user_q...	2025-03-13T21:20:...	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.

Actions for License 00be4bac78d731505d04d5e4

Renew License

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

Description:

e.g. "Renew for next month"

Issue Renewal Payment Request

Expire License

Description:

e.g. "License expired"

Expire

Close

To renew the license, enter a description then click the green “Issue Renewal Payment Request” button.

AppInstallsLicensesTenants

Actions for License 00c81bd63b6d139f58e45d5c

Renew License

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

Description:

Activate for one month

Issue Renewal Payment Request

Expire License

Description:

e.g. "License expired"

Expire

Close

The license renewal process is initiated and ultimately successful.

Canton Network QuickstartHomeAppInstallsLicensesTenantsPat the provider

Success

Success: License Renewal initiated successfully

Licenses

License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension	Actions
00be4bac78d731505d04...	DSO::122...	app_provide...	app_user_q...	2025-03-13T21:20:...	1			Actions

The license is now available for a 30-day extension for a flat fee of \$100 CC.

Canton Network QuickstartHomeAppInstallsLicensesTenantsPat the provider

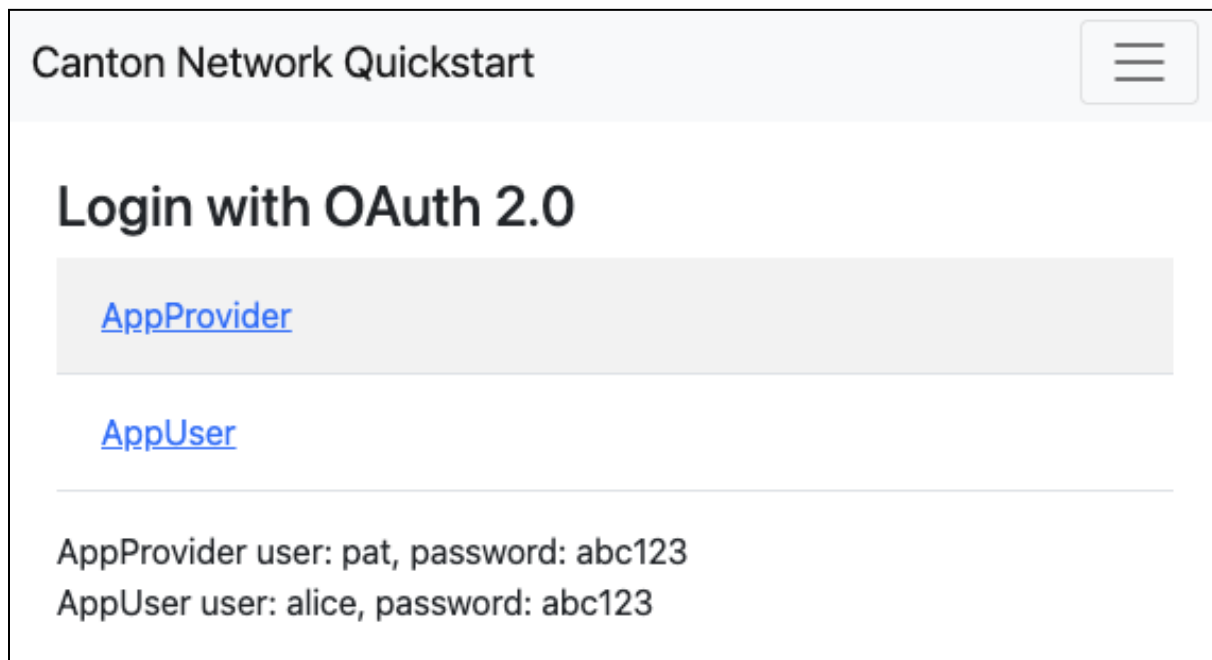
Licenses

License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension	Actions
00be4bac78d731505d04...	DSO::122...	app_provide...	app_user_q...	2025-03-13T21:20:...	1	100	30 days	

Pat the provider has done as much as they are able until Alice pays the renewal fee.

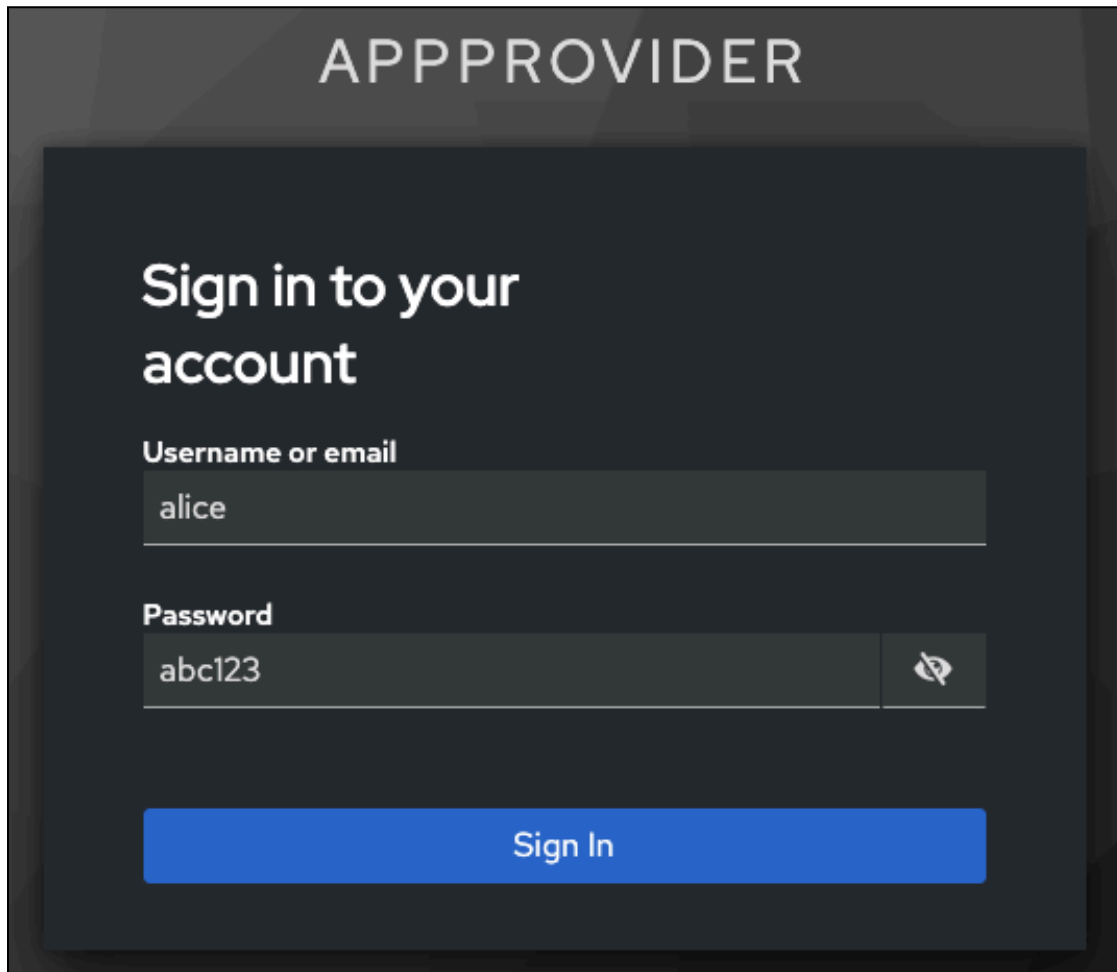
💡 For the next step we recommend opening a separate browser in incognito mode. Each user, `AppProvider`, and `Org1`, should be logged into separate browsers for most consistent results. For example, if you logged into `AppProvider` using Chrome, you would use Firefox when logging into `Org1`.

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



Login as `AppUser` `alice`.

Note that `AppUser`'s username is "alice" and the password is "abc123".



APPPROVIDER

Sign in to your account

Username or email

alice

Password

abc123

Sign In

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

Canton Network Quickstart

HomeAppInstallsLicenses

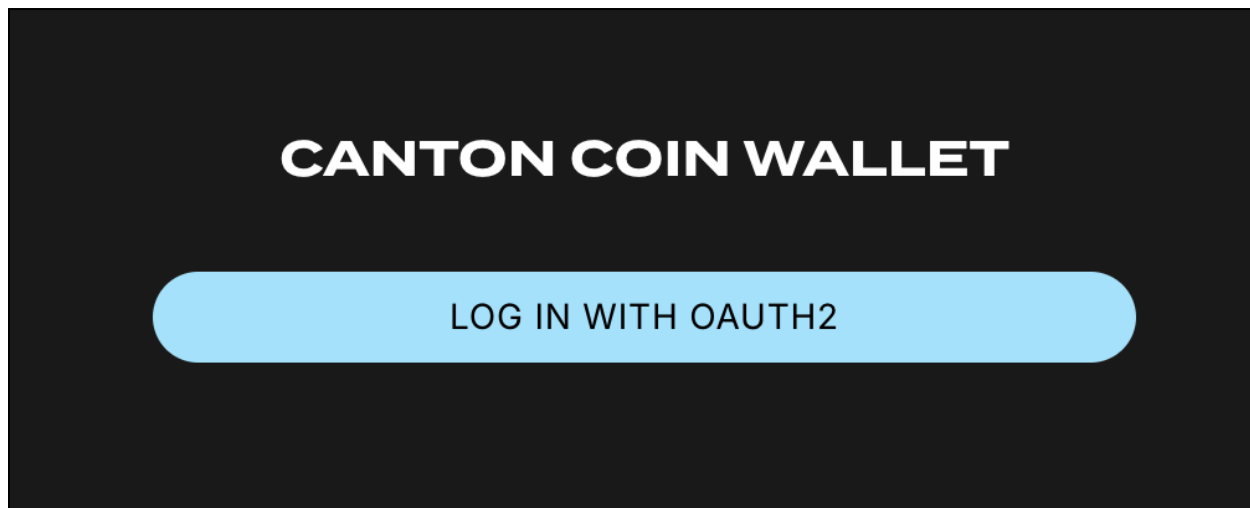
Alice the user

Licenses

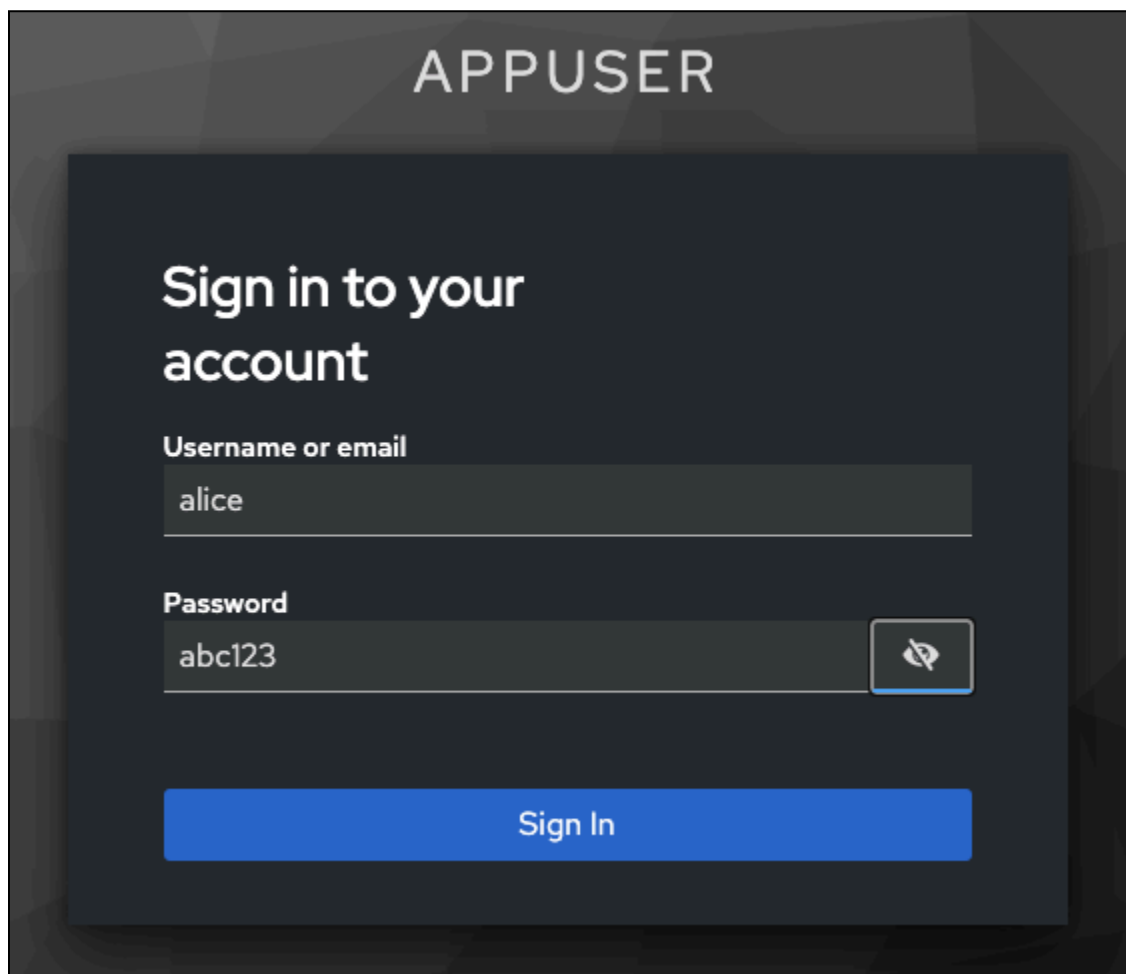
License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension	Actions
00be4bac78d731505d04...	DSO::122...	app_provide...	app_user_q...	2025-03-13T21:20:...	1	100	30 days	<div>Pay Renewal</div>

Click on the Pay Renewal button. This navigates to the Canton Coin Wallet log in. Click “LOG IN WITH OAUTH2”.

💡 If you have any issues with log in, navigate directly to <http://wallet.localhost:2000/>.

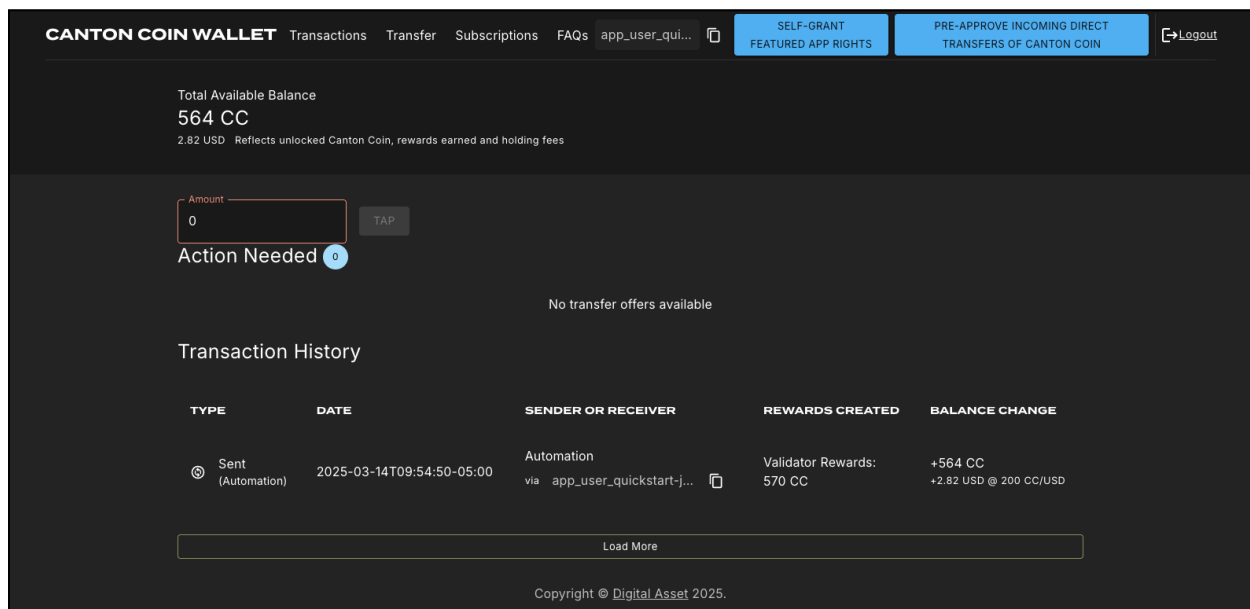


This navigates to a keycloak login.
Enter the same username and password as before.



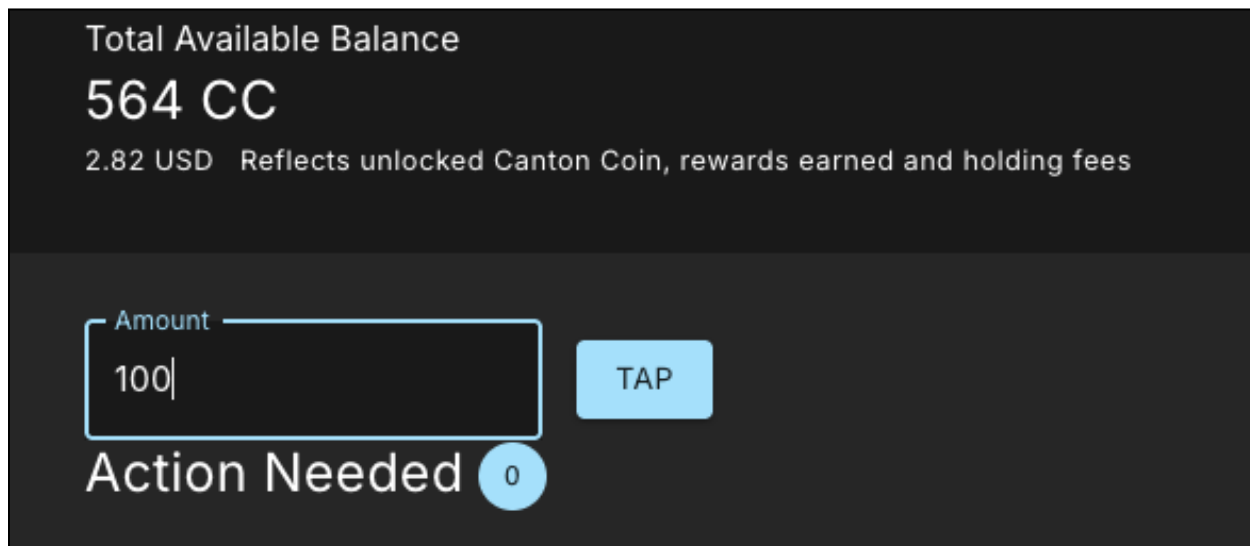
The image shows a dark-themed user interface for signing in. At the top, the word "APPUSER" is displayed in a light gray, sans-serif font. Below it, the heading "Sign in to your account" is written in a larger, white, sans-serif font. There are two input fields: the first is labeled "Username or email" and contains the text "alice"; the second is labeled "Password" and contains the text "abc123". To the right of the password field is a small square button with a white eye icon, indicating a toggle for password visibility. Below the input fields is a prominent blue rectangular button with the text "Sign In" in white, centered within it. The entire form is set against a dark background with a subtle geometric pattern.

Signing in directs to the Canton Coin Wallet.



The wallet must be populated with CC in order to fulfill the transaction.

In CC Wallet, populate the wallet with \$100 USD, or the equivalent of 20,000 CC.



The wallet was prepopulated with 564 CC so it now contains 20,564 CC.

Total Available Balance

20,564 CC

102.82 USD Reflects unlocked Canton Coin, rewards earned and holding fees

Amount

100

TAP

Action Needed

0

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

Licenses								
License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension	Actions
00a01c1718dbe1a0f5e45...	DSO::122...	app_provide...	app_user_q...	2025-03-14T14:36:...	1	100	30 days	Pay Renewal

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

app_user_quickstart-j...

Logout

Total Available Balance: 21,060.6761951 CC / 105.3033809755 USD

Send 100 CC to

app_provider_quickst...

via app_provider_quickst...

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.

Quickstart

Home

Appinstalls

Licenses

Tenants

Pat the provider

Licenses

License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension	Actions
00a01c1718dbe1a0f5e45...	DSO::122...	app_provide...	app_user_q...	2025-03-14T14:36:...	1	100	30 days	<div>Complete Renewal</div>

Clicking "Complete Renewal" results in a Success.

Licenses								
License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension	Actions
00a01c1718dbe1a0f5e45...	DSO::122...	app_provide...	app_user_q...	2025-03-14T14:36:...	1			Actions

Alice's License view shows the activated license.

Canton Network Quickstart

HomeAppInstallsLicenses

Alice the userLogout

Licenses

License Contract ID	DSO	Provider	User	Expires At	License #	Renew Fee	Extension
00f77a38c88b2ce54687...	DSO::122...	app_provide...	app_user_q...	2025-04-13T15:11:1...	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.

The app provider and the app user each have their own console. To activate the app provider's Canton Console in a terminal from the `quickstart/` directory. Run:

```
make console-app-provider
```

Open the participant's Canton Console with

```
make console-app-user
```

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 synchronizer.

```
[@ 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.


You may leave the party hint as the default value by tapping ‘return’ on the keyboard.

```
(base) quickstart ~ % make setup
Starting local environment setup tool...
./gradlew configureProfiles --no-daemon --console=plain --quiet
Enable LocalNet? (Y/n): n
LOCALNET_ENABLED set to 'false'.

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

Specify a party hint (this will identify the participant in the network) [quickstart-... -1]:
PARTY_HINT set to 'quickstart-... -1'.

.env.local updated successfully.
(base) quickstart ~ %
```

 Running `make setup` regenerates `.env.local` but preserves the contents of the `.env` file settings.

The application is now connected to DevNet.

Important: Migration ID for DevNet Connections

When connecting to DevNet, verify that the `MIGRATION_ID` value in `.env` matches the current network migration ID for your DevNet Super Validator.

Check the current migration ID at <https://sync.global/sv-network/> under the GSF DevNet information section.

For example, if the Super Validator Node Information shows the `migration_id` value as “0” then update `MIGRATION_ID` to “0” in your `.env`.

GSF DevNet Super Validator Node Information


```
{
  "network": "devnet",
  "sv": {
    "migration_id": 0,
    "version": "0.3.15"
  },
  "synchronizer": {
    "active": {
      "chain_id_suffix": "5",
      "migration_id": 0,
      "version": "0.3.15"
    },
    "legacy": null,
    "staging": null
  }
}
```

In `.env`:

```
ONBOARDING_SECRET_URL=https://sv.sv-1.dev.global.canton.network.digitalasset.com/api/sv/v0/devnet/onboard/validator/prepare
MIGRATION_ID=0
APP_PROVIDER_VALIDATOR_PARTICIPANT_ADDRESS=participant-app-provider
APP_USER_VALIDATOR_PARTICIPANT_ADDRESS=participant-app-user
```


Configuring Non-Default DevNet Sponsors

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](#).

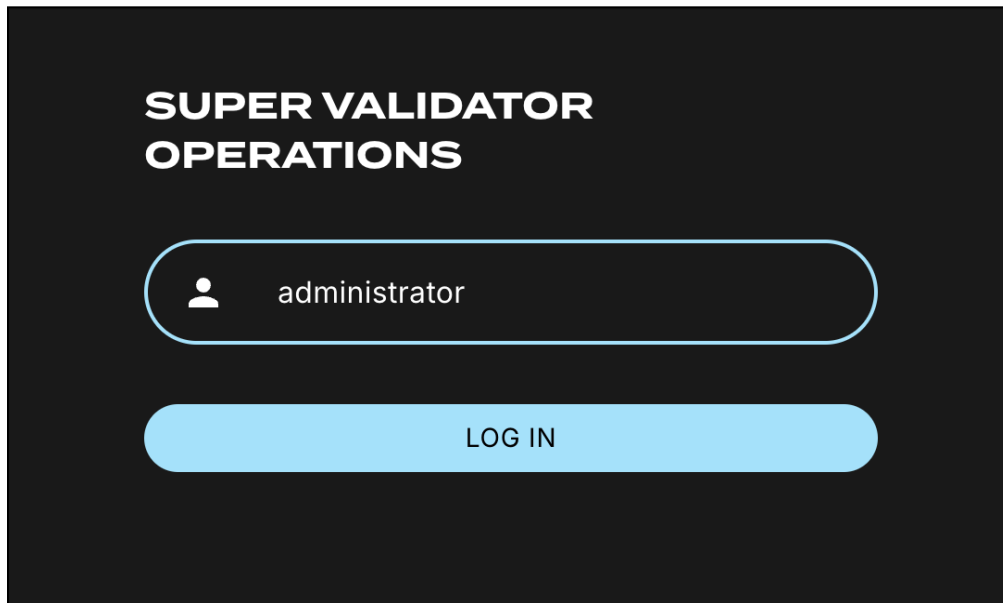
 If you run into errors when making DevNet operations, double check that the DevNet VPN is active. DevNet VPNs may timeout, especially if left unattended for extended periods of time.

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

[Information](#)
[Validator Onboarding](#)
[Canton 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... 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 CLOSES 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

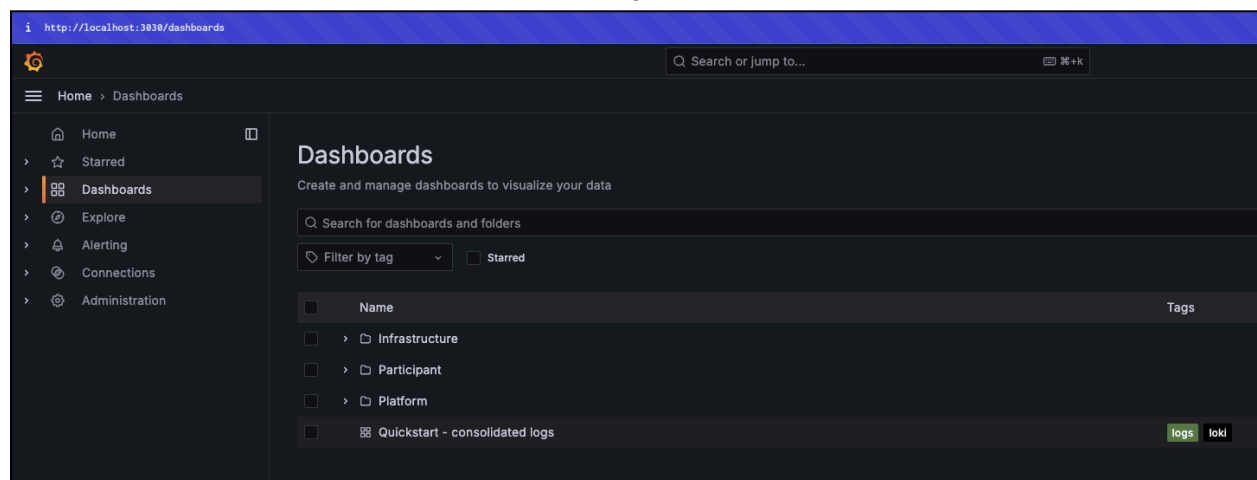
dsoLeaderPartyId	sv::1220e29d956452e...
dsoPartyId	DSO::12200af1e2b814...
dsoEpoch	0

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

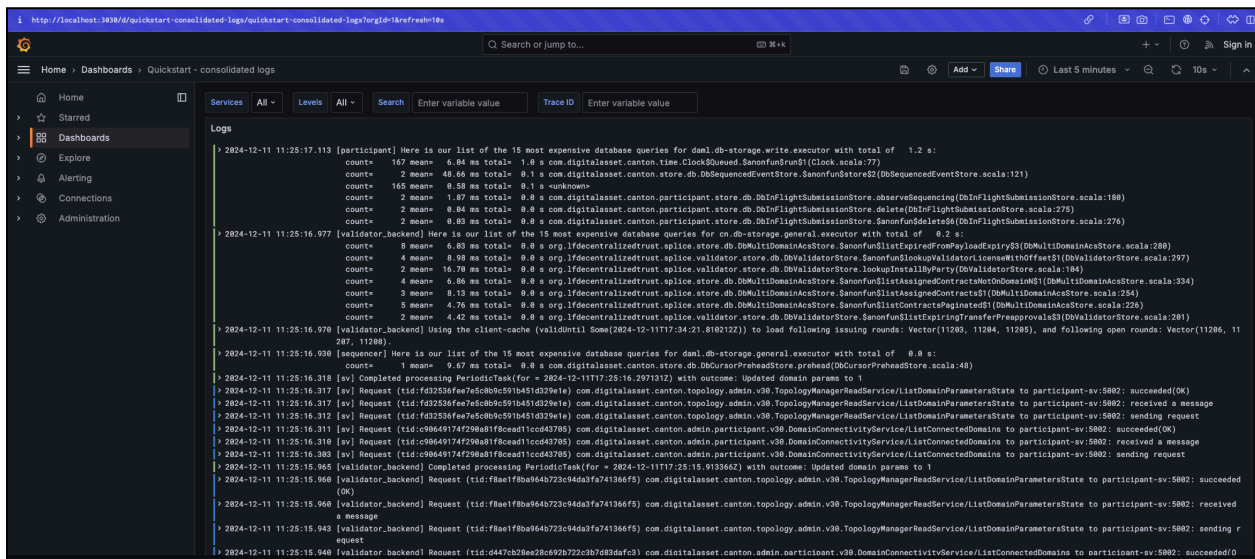
CANTON COIN SCAN				Canton Coin Activity	Network Info	Governance	Validators
Validator Licenses							
CREATED AT	VALIDATOR			SPONSOR			
02/11/2025 08:06	sv::12201b7f2459db0f8...			sv::12201b7f2...	THIS SV		
02/11/2025 08:05	quickstart-jpmiller-1::12...			sv::12201b7f2...	THIS SV		
02/11/2025 08:05	quickstart-jpmiller-1::12...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

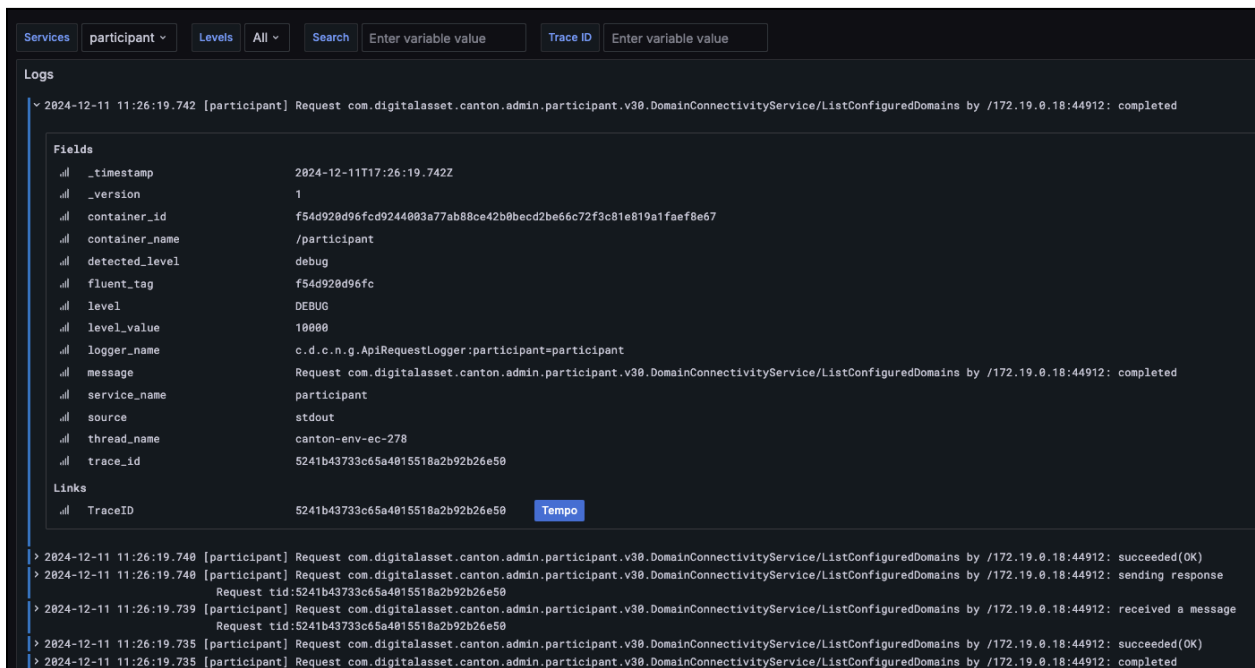


Services: All Levels: All Search: Enter variable value Trace ID: Enter variable value

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$Queue$.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$.delete(DbInFlightSubmissionStore.scala:276)
count= 2 mean= 6.83 ms total= 0.0 s com.digitalasset.canton.participant.store.db.DbInFlightSubmissionStore$.SanonFunRun$3(DbInFlightSubmissionStore.scala:276)
> 2024-12-11 11:25:16.977 [validator.backend] Here is our list of the 15 most expensive database queries for com.db-storage.general.executor with total of 0.2 s:
count= 8 mean= 6.83 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore$.SanonFunRun$ExpiredFromPayloadExpiry$3(DbMultiDomainAcStore.scala:288)
count= 4 mean= 8.98 ms total= 0.0 s org.ifdecentralizedtrust.splice.validator.store.db.DbValidatorStore$.SanonFunRun$LookupValidatorLicenseWithOffset$1(DbValidatorStore.scala:297)
count= 2 mean= 16.78 ms total= 0.0 s org.ifdecentralizedtrust.splice.validator.store.db.DbValidatorStore$.LookupInstallByParty(DbValidatorStore.scala:184)
count= 4 mean= 6.85 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore$.SanonFunRun$AssignedContractNotOnDomain$1(DbMultiDomainAcStore.scala:334)
count= 3 mean= 8.13 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore$.SanonFunRun$AssignedContracts$1(DbMultiDomainAcStore.scala:254)
count= 5 mean= 4.76 ms total= 0.0 s org.ifdecentralizedtrust.splice.store.db.DbMultiDomainAcStore$.SanonFunRun$ListContractsPaginated$1(DbMultiDomainAcStore.scala:226)
count= 2 mean= 4.42 ms total= 0.0 s org.ifdecentralizedtrust.splice.validator.store.db.DbValidatorStore$.SanonFunRun$ListExpiringTransferPreapprovals$1(DbValidatorStore.scala:261)
> 2024-12-11 11:25:16.976 [validator.backend] Using the client-cache (validUntil Some(2024-12-11T17:34:21.816Z12Z)) to load following issuing rounds: Vector(11282, 11284, 11285), and following open rounds: Vector(11286, 11287, 11288).
> 2024-12-11 11:25:16.938 [sequencer] Here is our list of the 15 most expensive database queries for daml.db-storage.general.executor with total of 0.0 s:
count= 1 mean= 9.67 ms total= 0.0 s com.digitalasset.canton.store.db.DbCursorPreheadStore$.prehead(DbCursorPreheadStore.scala:48)
> 2024-12-11 11:25:16.318 [sv] Completed processing PeriodicTask(for = 2024-12-11T17:25:16.209Z12Z) with outcome: Updated domain params to 1
> 2024-12-11 11:25:16.317 [sv] Request (tid:f3d2536fee7e5c8b9c591b451d329e1e) com.digitalasset.canton.topology.admin.v38.TopologyManagerReadService/ListDomainParametersState to participant-sv:5802: succeeded(OK)
> 2024-12-11 11:25:16.317 [sv] Request (tid:f3d2536fee7e5c8b9c591b451d329e1e) 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:f3d2536fee7e5c8b9c591b451d329e1e) 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 = 2024-12-11T17:25:15.913Z12Z) with outcome: Updated domain params to 1
> 2024-12-11 11:25:15.960 [validator.backend] Request (tid:fbaef8ba9465723c94da3fa741366f5) 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:fbaef8ba9465723c94da3fa741366f5) 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:fbaef8ba9465723c94da3fa741366f5) 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:d447c2b28e28c692b722c3b7d8bdfdc03) 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	
TraceID	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
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](#).