

Implement session keys

Let's go through the steps on how you could enable sessions in your dApps with Argent.

Pre-requisites

- `pnpm add starknetkit@2.2.7`
- (or newer versions)
- - can be installed with `pnpm add starknetkit@next`
- - required in order to get the deployment data for an account
- `pnpm add @argent/x-sessions@next`

Connect using starknetkit

Using starknetkit modal, with all default connectors

...

```
Copy const{wallet,connectorData,connector}=awaitconnect({ webWalletUrl:ARGENT_WEBWALLET_URL,// env var for webwallet url argentMobileOptions:{ dappName:"Starknetkit example dapp", url:window.location.hostname, chainId:constants.NetworkName.SN_MAIN, icons:[], }, })
```

...

Using starknetkit modal, with all specific connectors

...

```
Copy const{wallet,connectorData,connector}=awaitconnect({ connectors:[ newInjectedConnector({ options:{ id:"argentX" } }), newInjectedConnector({ options:{ id:"braavos" } }), newArgentMobileConnector({ dappName:"Example dapp", chainId:CHAIN_ID, }), newWebWalletConnector({ url:ARGENT_WEBWALLET_URL}) ] })
```

...

ARGENT_WEBWALLET_URL

- Mainnet: <https://web.argent.xyz/>
- Testnet: please reach-out to us if you wish to use web wallet on testnet
-

Get deployment data for an account

When connecting with starknetkit, use the `wallet` object returned by `connect`.

If an account is already deployed, this will throw an exception (so it will need to be managed on client side)

...

```
Copy const{wallet,connectorData}=res; awaitwallet.request({ type:"wallet_deploymentData", })
```

...

Create a session

Before the user can execute transactions, a session needs to be created.

The dapp will need to create `dappKey`, both public and private will be needed.

...

```
Copy constprivateKey=ec.starkCurve.utils.randomPrivateKey(); constdappKey:DappKey={ privateKey, publicKey:ec.starkCurve.getStarkKey(privateKey), };
```

...

When creating a session, 2 values need to be stored:

- `sessionRequest`, created using `createSessionRequest`
- from `@argent/x-sessions`

- sessionSignature, that requires signing a message and created using openSession
- from@argent/x-sessions
-

...

```
Copy const sessionParams: SessionParams = {
  allowedMethods: [ { "Contract Address": ETHTokenAddress, selector: "transfer",
}, ],
  expiry: Math.floor((Date.now() + 10006060 * 24) / 1000) as any,
  metaData: { projectId: "test-dapp", txFees: [ {
    tokenAddress: ETHTokenAddress,
    maxAmount: parseUnits("0.1", 18).value.toString(),
  }, ], },
  publicDappKey: dappKey.publicKey,
};
```

```
const sessionRequest = createSessionRequest(allowedMethods, expiry, metaData(isStarkFeeToken), dappKey.publicKey);
setSessionRequest(sessionRequest);
```

```
const accountSessionSignature = await openSession({ chainId: await provider.getChainId(), wallet: wallet as any, sessionParams,
});
```

```
setAccountSessionSignature(accountSessionSignature);
```

...

Execute a tx using session keys

In order to execute a tx, a session account is needed.

To create this account, sessionRequest and accountSessionSignature created on the step before are required.

...

```
Copy const sessionAccount = await buildSessionAccount({
  accountSessionSignature: stark.formatSignature(accountSessionSignature),
  sessionRequest,
  provider,
  chainId,
  address,
  dappKey,
  argentSessionServiceBaseUrl: ARGENT_SESSION_SERVICE_BASE_URL,
});
```

...

You can now use this account to submit transactions.

ARGENT_SESSION_SERVICE_BASE_URL

- Mainnet: <https://cloud.argent-api.com/v1>
- Testnet: please reach-out to us if you wish to use sessions on testnet
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Last updated 3 months ago