Restrict a Snap's RPC API methods

If thedapps caveat of theendowment:rpc permission is set totrue , any dapp can call the Snap's RPC API by default. You canrestrict the whole API to specific dapp origins orrestrict the API by method and origin .

Restrict the whole API

Theendowment:rpc permission has an optionalallowedOrigins caveat. You can use this to restrict the domains that are allowed to make calls to the Snap's RPC API.

Restrict by method and origin

Sometimes a more granular control is required, such as filtering by methodand caller origin.

You can restrict by method and origin using theorigin parameter of theonRpcRequest entry point. For example:

```
index.ts import

type

{ OnRpcRequestHandler , UnauthorizedError }

from

"@metamask/snaps-sdk" ;

type

MethodPermission

=

"*"

|

string [ ] ;

const

RPC_PERMISSIONS : Record < string , MethodPermission

=

{ hello :

"*" , secureMethod :

[ "https://metamask.io" , "https://www.mydomain.com" , ] } ;

const

isAllowed

=

( method :

string , origin :

string )

=>

{ return

RPC_PERMISSIONS [ method ]

===

"*"
||
RPC_PERMISSIONS [ method ] . includes ( origin ) ; } ;
export
const onRpcRequest :
OnRpcRequestHandler
=
async
( { origin , request , } )
=>
{ // Check permissions. if
( ! isAllowed ( request . method , origin ) )
{ throw
new
UnauthorizedError ( Method { request . method } not authorized for origin { origin } .  ) ; }
switch
( request . method )
{ case
"hello" : return
"world!" ;
case
"secureMethod" : return
"The secret is: 42" ;
default : throw
new
Error ( "Method not found." ) ; } } ;
```

You can construct more powerful filtering methods using regular expressions or any other logic of your choice.

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