

# get\_contract\_code\_hash

get\_contract\_code\_hash helper function

Contract code hash helper function

To retrieve a Secret Network smart contract's code hash from within a Secret contract call, you can use [Stargate queries](#) to directly query the on-chain data from inside the contract.

This helper function is particularly interesting if you desire to make complicated contract structures that involve submessages or just cross-contract messages to different Secret Network contracts. With this code snippet, you do not need to supply thecode\_hash of each contract that you are going to call in submessage or normal messages. It is sufficient to know the contract address of the other contract, the code snippet will fetch the latest on chaincode\_hash for you.

Be aware that contracts can be upgraded on Secret Network! Since this code snippet always fetch thecode\_hash directly from the chain without any extra check (which was implicitly done by manually supplying thecode\_hash ), you need to be careful about silently (perhaps maliciously) upgraded contracts which potentially reveal confidential information. The Secret Network[team](#) has designed a helper function, get\_contract\_code\_hash , exactly for this purpose.

See an example usage of get\_contract\_code\_hash [here](#) . Simply add the Anybuf package and the "stargate" feature for cosmwasm-std to your cargo.toml :

```

```
Copy [dependencies] cosmwasm-std={ package="secret-cosmwasm-std", version="1.1.10", features=["stargate"]} anybuf={version="0.5.0"}
```

```

And then add the function to your contract:

```

```
Copy fnget_contract_code_hash(deps:DepsMut, contract_address:String)->StdResult {
letcode_hash_query:cosmwasm_std::QueryRequest=cosmwasm_std::QueryRequest::Stargate{
path:"/secret.compute.v1beta1.Query/CodeHashByContractAddress".into(), data:Binary(Anybuf::new().append_string(1,
contract_address).into_vec()) };

```

```
letraw=to_vec(&code_hash_query).map_err(|serialize_err| StdError::generic_err(format!("Serializing QueryRequest: {}",
serialize_err)) )?;
```

```
letcode_hash=matchdeps.querier.raw_query(&raw) { SystemResult::Err(system_err)=>Err(StdError::generic_err(format!(
"Querier system error: {}", system_err ))),
SystemResult::Ok(ContractResult::Err(contract_err))=>Err(StdError::generic_err(format!( "Querier contract error: {}",
contract_err ))), SystemResult::Ok(ContractResult::Ok(value))=>Ok(value) }?;
```

```
// Remove the "\n@" if it exists at the start of the code_hash
letmutcode_hash_str=String::from_utf8(code_hash.to_vec()).map_err(|err| StdError::generic_err(format!("Invalid UTF-8
sequence: {}", err)) )?;
```

```
ifcode_hash_str.starts_with("\n@") { code_hash_str=code_hash_str.trim_start_matches("\n@").to_string(); }
```

```
Ok(code_hash_str) }
```

``` [Previous Submessages](#) [Next Randomness API - Secret VRF](#) Last updated3 months ago