

Documentation

Carnivora

A powerfull backend for web-service management

September 1, 2015

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1 Module “_postgresql_user”

PostgreSQL users and their privileges

1.1 Roles

1.1.1 Role “edentata”

Account for edentata web frontend

- Login: true

1.1.2 Role “machine_example”

Account for machine example

- Login: true

2 Module “backend”

Carnivora Backend

The backend module provides everything required for the backend API. The backend API delivers content required for building configs etc. to clients, called machines.

2.1 Tables

2.1.1 Table “backend”.“auth”

Grants rights to backend API clients based on SQL roles.

- Primary key:
 - role

Columns

role

Grantee for right to access the backend data for the defined machine. A role is basically a user or a user group on the SQL server.

- Type: commons.t_key

machine

Machine for which the rights are granted.

- Type: dns.t_domain
- References: backend.machine.name
 - On delete: CASCADE

2.1.2 Table “backend”.“machine”

Physical or virtual machines that hosts services.

- Primary key:
 - name

Columns

name

Machine name

- Type: dns.t_domain

2.2 Functions

2.2.1 Function "backend". "_active"

Is not 'del'

- Parameters:
 - **backend_status** *backend.t_status*
- Returns: boolean

2.2.2 Function "backend". "_conditional_notify"

Notifies if first argument is true. Throws inaccessible otherwise.

- Parameters:
 - **p_condition** *boolean*
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
 - **p_domain** *dns.t_domain*
- Returns: void

2.2.3 Function "backend". "_conditional_notify_service_entity_name"

Notifies if first argument is true. Throws inaccessible otherwise.

- Parameters:
 - **p_condition** *boolean*
 - **p_service_entity_name** *dns.t_domain*
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
- Returns: void

2.2.4 Function "backend". "_deleted"

Is 'del'

- Parameters:
 - **backend_status** *backend.t_status*
- Returns: boolean

2.2.5 Function "backend". "_get_login"

Shows informations for the current backend login.
Throws an error if the current user is not a grantee
for a machine.

- Parameters: *non*
- Returns: TABLE

2.2.6 Function "backend". "_machine_privileged"

Checks if a currently connected machine is privileged to obtain data for a certain service for a certain domain name.

WARNING: The parameter `p_domain` must be a domain, which means an entry in the column `dns.service.domain`. It must not be confused with a `service_entity_name`.

- Parameters:
 - **p_service** *commons.t_key*
 - **p_domain** *dns.t_domain*
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: boolean
- Execute privilege:
 - backend

2.2.7 Function "backend". "_machine_privileged_service"

Checks if a currently connected machine is privileged to obtain data for a certain service for a certain servicee name.

WARNING: The parameter `p_server_name` must be a service name. It must not be confused with a domain.

- Parameters:
 - **p_service** *commons.t_key*
 - **p_service_entity_name** *dns.t_domain*
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: boolean
- Execute privilege:
 - backend

2.2.8 Function "backend". "_notify"

Informs all machines about changes.

To listen to signals use `LISTEN "carnivora/machine.name.example"`. The payload has the form `'mail.domain.example/email/list'`.

- Parameters:
 - **p_machine** *dns.t_domain*
 - **p_service_entity_name** *dns.t_domain*
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
- Returns: void

2.2.9 Function "backend". "_notify_domain"

Informs all machines about changes.

WARNING: The parameter `p_domain` must be a domain, which means an entry in the column `dns.service.domain`. It must not be confused with a `service_entity_name`.

- Parameters:
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
 - **p_domain** *dns.t_domain*
- Returns: void

2.2.10 Function "backend". "_notify_service_entity_name"

Informs all machines about changes.

WARNING: The parameter `p_service_entity_name` must be a service name. It must not be confused with a domain.

- Parameters:
 - **p_service_entity_name** *dns.t_domain*
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
- Returns: void

2.3 Domains

2.3.1 Domain "backend". "t_status"

Backend status

2.4 Roles

2.4.1 Role "backend"

vms

- Login:

3 Module “commons”

Carnivora Commons

Usefull templates, functions and domains.

3.1 Functions

3.1.1 Function “commons”.“_hash_password”

SHA512 hash of the password with 16 charcters random salt.
The returned format is the traditional 'crypt(3)' format.

- Parameters:
 - **p_password** *commons.t_password_plaintext*
- Language: plpython3u
- Returns: commons.t_password

3.1.2 Function “commons”.“_idn”

Converts a unicode domain name to IDN (ASCII)

- Parameters:
 - **p_domain** *varchar*
- Language: plpython3u
- Returns: varchar
- Execute privilege:
 - userlogin
 - backend

3.1.3 Function “commons”.“_passwords_equal”

Compares a plaintext password with an arbitrary 'crypt(3)' hashed password.

Uses

- Parameters:
 - **p_password_plaintext** *commons.t_password_plaintext*
 - **p_password_hash** *commons.t_password*
- Language: plpython3u
- Returns: boolean

3.1.4 Function “commons”.“_raise_inaccessible_or_missing”

Raised whenever a operation on an object failes because it is not owned by the user or it is not found.

- Parameters:
 - **p_raise** *boolean* Controls if the exception is raised
- Returns: void

3.1.5 Function "commons". "_reverse_array"

Copied from

- Parameters:
 - **p_array** *anyarray*
- Returns: *anyarray*
- Execute privilege:
 - userlogin
 - backend

3.1.6 Function "commons". "_uuid"

Returns a random uuid

- Parameters: *non*
- Returns: *uuid*

3.2 Domains

3.2.1 Domain "commons". "t_port"

Port

3.2.2 Domain "commons". "t_password"

unix hash thingy - todo: propper checking of format

3.2.3 Domain "commons". "t_password_plaintext"

Password in plaintext

3.2.4 Domain "commons". "t_key"

Key

4 Module “dns”

DNS

4.1 Tables

4.1.1 Table “dns”.“custom”

Direct name server entries.

- Primary key:
 - id

Columns

type

Type (?) like MX, A, AAAA, ...

- Type: dns.t_type

rdata

fancy rdata storage

- Type: dns.t_rdata

ttl

Time to live, NULL indicates default value

- Type: dns.t_ttl
- Can be *NULL*

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

registered

Registered domain of which domain is a sub domain

- Type: dns.t_domain
- References: dns.registered.domain

domain

domain of entry

- Type: dns.t_domain

id

uuid serial number to identify database elements uniquely
The default value is generated using uuid_generate_v4().

- Type: uuid
- Default value: uuid_generate_v4()

4.1.2 Table "dns"."registered"

Domains registered under a public suffix.

- Primary key:
 - domain
- Foreign keys:
 1. **Reference service entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

owner

for ownage

- Type: user.t_user
- References: user.user.owner

backend_status

Status of database entry in backend. NULL: nothing pending,
'ins': entry not present on backend client, 'upd': update
pending on backend client, 'del': deletion pending on
backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

domain

Domain

- Type: dns.t_domain

public_suffix

Public Suffix

- Type: varchar

4.1.3 Table "dns"."service"

Name server entries based on system.service (i.e. system.service_dns)

- Primary key:
 - domain
 - service
- Foreign keys:
 1. **Reference service entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

registered

Registered domain of which domain is a sub domain

- Type: dns.t_domain
- References: dns.registered.domain

domain

domain for which the entries should be created

- Type: dns.t_domain

4.2 Functions

4.2.1 Function "dns". "_domain_order"

ORDER

- Parameters:
 - **p_domain** *dns.t_domain*
- Returns: varchar()
- Execute privilege:
 - userlogin
 - backend

4.2.2 Function "dns". "del_custom"

Delete Custom

- Parameters:
 - **p_id** *uuid*
- Variables defined for body:
 - **v_nameserver** *dns.t_domain*
 - **v_managed** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

4.2.3 Function "dns"."del_registered"

Delete registered domain

- Parameters:
 - **p_domain** *dns.t_domain*
- Variables defined for body:
 - **v_nameserver** *dns.t_domain*
 - **v_managed** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

4.2.4 Function "dns"."del_service"

deletes all service entries of a specific domain

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_service** *commons.t_key*
- Variables defined for body:
 - **v_nameserver** *dns.t_domain*
 - **v_managed** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

4.2.5 Function "dns"."fwd_registered_status"

Update status

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_backend_status** *backend.t_status*
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: void
- Execute privilege:
 - backend

4.2.6 Function "dns"."ins_custom"

Ins Custom

- Parameters:
 - **p_registered** *dns.t_domain*
 - **p_domain** *dns.t_domain*
 - **p_type** *dns.t_type*
 - **p_rdata** *dns.t_rdata*
 - **p_ttl** *integer*
- Variables defined for body:
 - **v_nameserver** *dns.t_domain*
 - **v_managed** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

4.2.7 Function "dns"."ins_registered"

registeres new domain

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_subservice** *commons.t_key*
 - **p_service_entity_name** *dns.t_domain*
 - **p_public_suffix** *varchar*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

4.2.8 Function "dns"."ins_service"

Creates service dns entry

- Parameters:
 - **p_registered** *dns.t_domain*
 - **p_domain** *dns.t_domain*
 - **p_service_entity_name** *dns.t_domain*
 - **p_service** *commons.t_key*
- Variables defined for body:
 - **v_nameserver** *dns.t_domain*
 - **v_managed** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*

- Returns: void
- Execute privilege:
 - userlogin

4.2.9 Function "dns"."sel_activatable_service"

Activatable services

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

4.2.10 Function "dns"."sel_available_service"

List all domains that have a service entry in dns with their service.
This is particularly usefull since these domains are ready for use with this service. Usually this means that accounts etc. can be created for this domain.

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

4.2.11 Function "dns"."sel_custom"

sel custom

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

4.2.12 Function "dns"."sel_nameserver"

Select available nameservers

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*

- **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

4.2.13 Function "dns"."sel_registered"

List registered domains

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

4.2.14 Function "dns"."sel_service"

Select service based dns entries

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

4.2.15 Function "dns"."sel_usable_domain"

Usable domains

- Parameters:
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

4.2.16 Function "dns"."srv_record"

Servers both record types combined: Raw entries and the ones assembled from records templates for services (system.service_entity_dns).

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

4.2.17 Function "dns"."upd_custom"

Ins Custom

- Parameters:
 - **p_id** *uuid*
 - **p_rdata** *dns.t_rdata*
 - **p_ttl** *integer*
- Variables defined for body:
 - **v_nameserver** *dns.t_domain*
 - **v_managed** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

4.3 Domains

4.3.1 Domain "dns"."t_domain"

Domain name unicode (not IDN)

4.3.2 Domain "dns"."t_type"

Resource record type

4.3.3 Domain "dns"."t_rdata"

record entry

4.3.4 Domain "dns"."t_ttl"

time to live

5 Module “domain_reseller”

Features for Domains Registered via a Reseller

Stores additional details for dns.registered domains. Also supports storing contact informations (handles).

This module sends the following signals:

- domain_reseller/handle
- domain_registered/managed
- domain_registered/unmanaged

5.1 Tables

5.1.1 Table “domain_reseller”.“handle”

Handles (Domain Contacts)

Domain contacts that can be used as owner, admin-c, tech-c or zone-c.

- Primary key:
 - alias
- Foreign keys:
 1. **Reference service entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

owner

for ownage

- Type: user.t_user
- References: user.user.owner

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

alias

Free choosable alias

- Type: varchar

id

Internal id at reseller

- Type: varchar
- Can be *NULL*

fname

First name

- Type: varchar

lname

Last name

- Type: varchar

address

Address

- Type: varchar

pcode

Postcode

- Type: varchar

city

City

- Type: varchar

country

Country

- Type: varchar

state

State

- Type: varchar

email

Email

- Type: email.t_address

phone

Phone

- Type: varchar

organization

Organization

- Type: varchar
- Can be *NULL*

fax

Fax

- Type: varchar
- Can be *NULL*

mobile_phone

Mobile phone

- Type: varchar
- Can be *NULL*

5.1.2 Table "domain_reseller"."registered"

Additional informations to those stored in dns.registered

- Primary key:
 - domain

Columns

domain

Domain

- Type: dns.t_domain
- References: dns.registered.domain
 - On delete: CASCADE

registrant

Registrant (Owner)

- Type: varchar
- References: domain_reseller.handle.alias

admin_c

Admin-C

- Type: varchar
- References: domain_reseller.handle.alias

tech_c

Tech-C

- Type: varchar
- Can be *NULL*
- References: domain_reseller.handle.alias

zone_c

Zone-C

- Type: varchar
- Can be *NULL*
- References: domain_reseller.handle.alias

payable

Payable

- Type: timestamp
- Can be *NULL*

period

Renewal period (years)

- Type: integer
- Can be *NULL*

registrar_status

Registrar status

- Type: varchar
- Can be *NULL*

registry_status

Registry status

- Type: varchar
- Can be *NULL*

last_status

Last update status

- Type: varchar
- Can be *NULL*

5.2 Functions

5.2.1 Function "domain_reseller"."del_handle"

Deletes handle

- Parameters:
 - **p_alias** *varchar*
- Variables defined for body:
 - **v_service_entity_name** *dns.t_domain*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

5.2.2 Function "domain_reseller"."fwd_handle_id"

Insert handle id

- Parameters:
 - **p_alias** *varchar*
 - **p_id** *varchar*
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: void
- Execute privilege:
 - backend

5.2.3 Function "domain_reseller"."fwd_registered_status"

Update status

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_payable** *timestamp*
 - **p_period** *integer*
 - **p_registrar_status** *varchar*
 - **p_registry_status** *varchar*
 - **p_last_status** *varchar*
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: void
- Execute privilege:
 - backend

5.2.4 Function "domain_reseller"."ins_handle"

Inserts handle

- Parameters:
 - **p_alias** *varchar*
 - **p_service_entity_name** *dns.t_domain*
 - **p_fname** *varchar*
 - **p_lname** *varchar*
 - **p_address** *varchar*
 - **p_pcode** *varchar*
 - **p_city** *varchar*
 - **p_country** *varchar*
 - **p_state** *varchar*
 - **p_email** *email.t_address*
 - **p_phone** *varchar*
 - **p_organization** *varchar*
 - **p_fax** *varchar*
 - **p_mobile_phone** *varchar*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

5.2.5 Function "domain_reseller"."ins_registered"

Inserts details for registered domain

- Parameters:
 - **p_domain** *dns.t_domain*

- **p_registrant** *varchar*
 - **p_admin_c** *varchar*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

5.2.6 Function "domain_reseller"."sel_handle"

Selects handles

- Parameters:
 - **p_hide_foreign** *bool*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: SETOF domain_reseller."handle"
- Execute privilege:
 - userlogin

5.2.7 Function "domain_reseller"."sel_registered"

Selects details for registered domains

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

5.2.8 Function "domain_reseller"."sel_reseller"

Selects available resellers

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

5.2.9 Function "domain_reseller"."srv_handle"

Serves handles

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: SETOF domain_reseller."handle"
- Execute privilege:
 - backend

5.2.10 Function "domain_reseller"."srv_registered"

Serves details for registered domains

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

5.2.11 Function "domain_reseller"."upd_handle"

Updates handle

- Parameters:
 - **p_alias** *varchar*
 - **p_address** *varchar*
 - **p_pcode** *varchar*
 - **p_city** *varchar*
 - **p_country** *varchar*
 - **p_state** *varchar*
 - **p_email** *email.t_address*
 - **p_phone** *varchar*
 - **p_organization** *varchar*
 - **p_fax** *varchar*
 - **p_mobile_phone** *varchar*
- Variables defined for body:
 - **v_service_entity_name** *dns.t_domain*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

5.2.12 Function "domain_reseller"."upd_registered"

Updates details for registered domain

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_admin_c** *varchar*
- Variables defined for body:
 - **v_nameserver** *dns.t_domain*
 - **v_managed** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6 Module “email”

Email and Mailing lists

This module sends the following signals:

- email/alias
- email/list
- email/mailbox
- email/redirection

6.1 Tables

6.1.1 Table “email”.“address”

Collection of all known addresses

- Primary key:
 - localpart
 - domain
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
 - Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

localpart

Local part

- Type: email.t_localpart

6.1.2 Table "email". "alias"

Aliases for e-mail mailboxes, owner is determined by mailbox.owner

- Primary key:
 - localpart
 - domain
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
 - Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice
 3. **reference to a mailbox**
 - Columns:
 - a) mailbox_localpart →
 - b) mailbox_domain →
 - Referenced columns:
 - a) email.mailbox.localpart
 - b) email.mailbox.domain

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

localpart

Local part

- Type: email.t_localpart

mailbox_localpart

Mailbox to which the mails will be delivered

- Type: email.t_localpart

mailbox_domain

Mailbox to which the mails will be delivered

- Type: dns.t_domain

6.1.3 Table "email"."list"

Mailing lists

- Primary key:
 - localpart
 - domain
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
 - Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

owner

for ownage

- Type: user.t_user
- References: user.user.owner

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

option

Free options in JSON format

- Type: jsonb
- Default value: '{}'

localpart

Local part of the email list address

- Type: email.t_localpart

admin

Email address of the list admin

- Type: email.t_address

options

Arbitrary options

- Type: jsonb
- Can be *NULL*

6.1.4 Table "email". "list_subscriber"

list subscribers

- Primary key:
 - address
 - list_localpart
 - list_domain
- Foreign keys:
 1. **reference to a list**
 - Columns:
 - a) list_localpart →
 - b) list_domain →
 - Referenced columns:
 - a) email.list.localpart
 - b) email.list.domain

Columns**backend_status**

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

option

Free options in JSON format

- Type: jsonb
- Default value: '{}'

address

Subscribers address

- Type: email.t_address

list_localpart

List

- Type: email.t_localpart

list_domain

List

- Type: dns.t_domain

6.1.5 Table "email"."mailbox"

E-mail mailboxes correspond to something a mail user can login into. Basically a mailbox represents a mailbox. A mailbox is bound to a specific address. Further addresses can be linked to mailboxes via aliases.

- Primary key:
 - localpart
 - domain
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
 - Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service

c) dns.service.service_entity_name

2. Reference subservice entity

- Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
- Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

owner

for ownage

- Type: user.t_user
- References: user.user.owner

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

option

Free options in JSON format

- Type: jsonb
- Default value: '{}'

localpart

Local part

- Type: email.t_localpart

uid

Unix user identifier

- Type: SERIAL

password

Unix shadow crypt format

- Type: commons.t_password

quota

Quota for mailbox in MiB

- Type: int
- Can be *NULL*

6.1.6 Table "email". "redirection"

Redirections

- Primary key:
 - localpart
 - domain
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
 - Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

owner

for ownage

- Type: user.t_user
- References: user.user.owner

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

localpart

Local part

- Type: email.t_localpart

destination

External address to which the mails will be delivered

- Type: email.t_address

6.2 Functions

6.2.1 Function "email". "_address"

List all addresses

- Parameters: *non*
- Returns: TABLE

6.2.2 Function "email". "_address_valid"

x

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
- Returns: void

6.2.3 Function "email". "del_alias"

Delete Alias

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_mailbox_localpart** *email.t_localpart*
 - **p_mailbox_domain** *dns.t_domain*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.4 Function "email". "del_list"

Delete mailing list

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_localpart** *email.t_localpart*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.5 Function "email". "del_list_subscriber"

del

- Parameters:
 - **p_list_localpart** *email.t_localpart*
 - **p_list_domain** *dns.t_domain*
 - **p_address** *email.t_address*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.6 Function "email". "del_mailbox"

Delete mailbox

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.7 Function "email". "del_redirection"

Delete redirection

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.8 Function "email"."ins_alias"

Create e-mail aliases

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_mailbox_localpart** *email.t_localpart*
 - **p_mailbox_domain** *dns.t_domain*
- Variables defined for body:
 - **v_subservice** *commons.t_key* (default: 'alias')
 - **v_num_total** *int*
 - **v_num_domain** *int*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.9 Function "email"."ins_list"

Creates a mailing list

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_admin** *email.t_address*
- Variables defined for body:
 - **v_subservice** *commons.t_key* (default: 'list')
 - **v_num_total** *int*
 - **v_num_domain** *int*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.10 Function "email"."ins_list_subscriber"

Adds a subscriber to a mailing list

- Parameters:
 - **p_address** *email.t_address*
 - **p_list_localpart** *email.t_localpart*
 - **p_list_domain** *dns.t_domain*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.11 Function "email"."ins_mailbox"

Creates an email box

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_password** *commons.t_password_plaintext*
- Variables defined for body:
 - **v_subservice** *commons.t_key* (default: 'mailbox')
 - **v_num_total** *int*
 - **v_num_domain** *int*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.12 Function "email"."ins_redirection"

Creates a redirection

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_destination** *email.t_address*
- Variables defined for body:
 - **v_subservice** *commons.t_key* (default: 'redirection')
 - **v_num_total** *int*
 - **v_num_domain** *int*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.13 Function "email"."sel_alias"

Select aliases

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

6.2.14 Function "email"."sel_list"

List all lists

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

6.2.15 Function "email"."sel_list_subscriber"

a

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

6.2.16 Function "email"."sel_mailbox"

List all mailboxes

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

6.2.17 Function "email"."sel_redirection"

Lists all redirections

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

6.2.18 Function "email"."srv_alias"

Lists all email aliases

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

6.2.19 Function "email"."srv_list"

Lists all mailinglists

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

6.2.20 Function "email"."srv_list_subscriber"

Lists all mailinglist subscribers

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

6.2.21 Function "email"."srv_mailbox"

Lists all mailboxes

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

6.2.22 Function "email"."srv_redirection"

Lists all mailinglists

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

6.2.23 Function "email"."upd_list"

Change list admin

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_admin** *email.t_address*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.2.24 Function "email"."upd_mailbox"

Change mailbox password

- Parameters:
 - **p_localpart** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_password** *commons.t_password_plaintext*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

6.3 Domains

6.3.1 Domain "email"."t_localpart"

Local part of an email address, the thing in front of the @

6.3.2 Domain "email"."t_address"

Email address, TODO validity checks

7 Module “jabber”

Jabber (XMPP)

This module sends the following signals:

- jabber/account

7.1 Tables

7.1.1 Table “jabber”.“account”

Jabber accounts

- Primary key:
 - node
 - domain
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
 - Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

owner

for ownage

- Type: user.t_user
- References: user.user.owner

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

node

part in front of the @ in account name

- Type: email.t_localpart

password

Unix shadow crypt format

- Type: commons.t_password

7.2 Functions

7.2.1 Function "jabber". "del_account"

Delete jabber account

- Parameters:
 - **p_node** *email.t_localpart*
 - **p_domain** *dns.t_domain*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

7.2.2 Function "jabber".ins_account

Insert jabber account

- Parameters:
 - **p_node** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_password** *commons.t_password_plaintext*
- Variables defined for body:
 - **v_num_total** *integer*
 - **v_num_domain** *integer*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

7.2.3 Function "jabber".sel_account

Select jabber accounts

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

7.2.4 Function "jabber".srv_account

Lists all jabber accounts

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

7.2.5 Function "jabber".upd_account

Change jabber account password

- Parameters:
 - **p_node** *email.t_localpart*
 - **p_domain** *dns.t_domain*
 - **p_password** *commons.t_password_plaintext*

7 Module "jabber"

- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

8 Module “server_access”

Server Access

Explicit passwd entries for shell accounts and sftp.

This module sends the following signals:

- server_access/sftp
- server_access/ssh

8.1 Tables

8.1.1 Table “server_access”.“user”

unix user

- Primary key:
 - user
- Foreign keys:
 1. **Reference service entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

owner

for ownage

- Type: user.t_user
- References: user.user.owner

uid

Unix user identifier

- Type: SERIAL

user

User

- Type: server_access.t_user

password

Unix shadow crypt format

- Type: commons.t_password
- Can be *NULL*

8.2 Functions

8.2.1 Function "server_access"."del_user"

delete

- Parameters:
 - **p_user** *server_access.t_user*
 - **p_service_entity_name** *dns.t_domain*
- Variables defined for body:
 - **v_subservice** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

8.2.2 Function "server_access".ins_user

ins user

- Parameters:
 - **p_user** *server_access.t_user*
 - **p_service_entity_name** *dns.t_domain*
 - **p_subservice** *commons.t_key*
 - **p_password** *commons.t_password_plaintext*
- Variables defined for body:
 - **v_password** *commons.t_password*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

8.2.3 Function "server_access".sel_user

sel user

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

8.2.4 Function "server_access".srv_user

backend server_access.user

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

8.2.5 Function "server_access".upd_user

passwd user

- Parameters:
 - **p_user** *server_access.t_user*
 - **p_service_entity_name** *dns.t_domain*
 - **p_password** *commons.t_password_plaintext*

- Variables defined for body:
 - **v_password** *commons.t_password* (default: *NULL*)
 - **v_subservice** *commons.t_key*
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

8.3 Domains

8.3.1 Domain "server_access". "t_user"

Unix user. This type only allows a subset of those names allowed by POSIX.

9 Module “system”

Carnivora System

Manages services, service entities and contingents.

9.1 Tables

9.1.1 Table “system”.“inherit_contingent”

x

- Primary key:
 - owner
 - priority

Columns

owner

for ownage

- Type: user.t_user
- References: user.user.owner

donor

Donor

- Type: user.t_user

priority

Priority, higher values take precedence

- Type: int

9.1.2 Table “system”.“service”

Services

Just a list of services that exist. Modules do register their services here. Use `system._setup_register_service(,)` to insert into this table.

- Primary key:
 - service

Columns

service

Service name

- Type: commons.t_key

module

Module name, just to keep track who uses this name

- Type: commons.t_key

9.1.3 Table "system"."service_entity"

Service Entity

Names under which services are made available. For example (mail.example.org, email) could be a mail-server system referred to as mail.example.org by carnivora. Such a system can consist of multiple physical or virtual machines. The corresponding machines are listed in system.service_entity_machine. A core feature of services is the definition of 'templates' for dns records which have to be present for every domain that uses this service. Such 'templates' can be defined in system.service_dns. Domain names can be enabled for services in dns.service. Service enabled domains are automatically equipped with the required dns entries according to the existing 'templates'.

The service_entity_name might be exposed to users as the address of this service. For example as SMTP or SSH server etc. The exact interpretation of the service_entity_name depends on the module and the frontend.

- Primary key:
 - service_entity_name
 - service

Columns

service_entity_name

Host name

- Type: dns.t_domain

service

email, ssh, ...

- Type: commons.t_key
- References: system.service.service

9.1.4 Table "system"."service_entity_dns"

Service Entity DNS

Resource records that have to be present to use a service. The records in this table can be understood as 'templates'. The table does not contain a name (domain) for the records. Rather for every domain that uses this service, all appropriate records are created for this domain based on this table. The assignment from domain to services can be found in dns.service.

- Primary key:
 - id
- Foreign keys:

1. Reference service entity

- Columns:
 - a) service_entity_name →
 - b) service →
- Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

type

Type (?) like MX, A, AAAA, ...

- Type: dns.t_type

rdata

fancy rdata storage

- Type: dns.t_rdata

ttl

Time to live, NULL indicates default value

- Type: dns.t_ttl
- Can be *NULL*

id

uuid serial number to identify database elements uniquely
The default value is generated using uuid_generate_v4().

- Type: uuid
- Default value: uuid_generate_v4()

domain_prefix

Domain prefix

- Type: varchar
- Can be *NULL*

9.1.5 Table "system"."service_entity_machine"

Service Entity Machine

List of machines that provide a certain service. This information is used to provide these machines access to the data they need to provide the service. See also the module 'backend'.

- Primary key:
 - machine_name
 - service_entity_name
 - service
- Foreign keys:
 1. **Reference service entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

machine_name

Assigns machine

- Type: dns.t_domain
- References: backend.machine.name

9.1.6 Table "system"."subservice"

Subservices

- Primary key:
 - service
 - subservice

Columns

service

Service

- Type: commons.t_key
- References: system.service.service

subservice

Subservice (concretization the service)

- Type: commons.t_key

9.1.7 Table "system"."subservice_entity"

Subservice Entity

Names under which subservices are made available.

See also: Table system.service_entity

- Primary key:
 - service_entity_name
 - service
 - subservice
- Foreign keys:
 1. **service ent**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service
 2. **subservice**
 - Columns:
 - a) service →
 - b) subservice →
 - Referenced columns:
 - a) system.subservice.service
 - b) system.subservice.subservice

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service name

- Type: commons.t_key

subservice

account, alias, ...

- Type: commons.t_key

9.1.8 Table "system"."subservice_entity_contingent"

Subservice entity contingent

- Primary key:
 - service
 - subservice
 - service_entity_name
 - owner
- Foreign keys:
 1. **Reference service entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

owner

for ownage

- Type: user.t_user
- References: user.user.owner

domain_contingent

Limit per domain

- Type: integer

total_contingent

Limit on the total

- Type: integer

9.1.9 Table "system"."subservice_entity_domain_contingent"

Subservice entity per domain contingent

- Primary key:
 - service
 - subservice
 - service_entity_name
 - domain
 - owner
- Foreign keys:
 1. **Reference service entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - Referenced columns:
 - a) system.service_entity.service_entity_name
 - b) system.service_entity.service
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

Columns

service_entity_name

Service entity name

- Type: dns.t_domain

service

Service (e.g. email, jabber)

- Type: commons.t_key

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

owner

for ownage

- Type: user.t_user
- References: user.user.owner

domain

Specific domain for which the access is granted

- Type: dns.t_domain

domain_contingent

Limit per domain

- Type: integer

9.2 Functions

9.2.1 Function "system". "_contingent_ensure"

Throws exceptions if the contingent is exceeded

- Parameters:
 - **p_owner** *user.t_user*
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
 - **p_domain** *dns.t_domain*
 - **p_current_quantity_total** *integer*
 - **p_current_quantity_domain** *integer*
- Variables defined for body:
 - **v_remaining** *integer*
 - **v_total_contingent** *integer*
 - **v_domain_contingent** *integer*
 - **v_domain_contingent_default** *integer*
 - **v_domain_contingent_specific** *integer*
 - **v_service_entity_name** *dns.t_domain*
 - **v_domain_owner** *user.t_user*
- Returns: void

9.2.2 Function "system". "_contingent_total"

Contingent

- Parameters:
 - **p_owner** *user.t_user*
 - **p_service** *commons.t_key*
 - **p_service_entity_name** *dns.t_domain*
- Variables defined for body:
 - **v_user** *integer*
 - **v_default** *integer*
- Returns: integer

9.2.3 Function "system". "_effective_contingent"

contingent

- Parameters: *non*
- Returns: TABLE

9.2.4 Function "system". "_effective_contingent_domain"

contingent

- Parameters: *non*
- Returns: TABLE

9.2.5 Function "system". "_inherit_contingent_donor"

Returns all contingent donors for a given user with their priority.

- Parameters:
 - **p_owner** *user.t_user*
- Returns: TABLE

9.2.6 Function "system". "_setup_register_service"

Allows modules to register their services during setup.
Returns the total number of service names registered
for this module.

- Parameters:
 - **p_module** *commons.t_key*
 - **p_service** *commons.t_key*
- Returns: integer

9.2.7 Function "system". "_setup_register_subservice"

Allows modules to register their services during setup.
Returns the total number of service names registered
for this module.

- Parameters:
 - **p_service** *commons.t_key*
 - **p_subservice** *commons.t_key*
- Returns: integer

9.2.8 Function "system". "sel_inherit_contingent"

Select inherit contingent

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

9.2.9 Function "system". "sel_usable_host"

Usable hosts

- Parameters:
 - **p_service** *commons.t_key*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

10 Module “user”

Carnivora Users: Users own things objects in the DB, and they can login into frontends (edentata)

10.1 Tables

10.1.1 Table “user”.“deputy”

Deputies for users

- Primary key:
 - deputy
 - represented

Columns

deputy

Deputy

- Type: user.t_user
- References: user.user.owner
 - On delete: CASCADE

represented

User for which the deputy can act

- Type: user.t_user
- References: user.user.owner
 - On delete: CASCADE

10.1.2 Table “user”.“session”

User login sessions

- Primary key:
 - id

Columns

id

Session id

- Type: varchar
- Default value: “user”._session_id()

owner

for ownage

- Type: user.t_user
- References: user.user.owner

act_as

Act as

- Type: user.t_user

started

Session started at this time

- Type: timestamp
- Default value: CURRENT_TIMESTAMP

10.1.3 Table “user”.“user”

User

- Primary key:
 - owner

Columns

owner

User name

- Type: user.t_user

password

Unix shadow crypt format

- Type: commons.t_password
- Can be *NULL*

login

Login enabled

- Type: bool

contact_email

Optional contact email address

- Type: email.t_address
- Can be *NULL*

10.2 Functions

10.2.1 Function "user". "_get_login"

Shows informations for the current user login.
Throws an exception if no login is associated to the current database connection.

- Parameters: *non*
- Returns: TABLE

10.2.2 Function "user". "_session_id"

Gives an id for the database connection that is unique over all database connections.
It is used to identify user logins.

Not sure if this stays unique with distributed infrastructure!

- Parameters: *non*
- Returns: varchar

10.2.3 Function "user". "ins_deputy"

Act as deputy

- Parameters:
 - **p_act_as** *user.t_user*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

10.2.4 Function "user". "ins_login"

Try to bind database connection to new user session.
Returns valid if sueccessfull, invalid otherwise.

- Parameters:
 - **p_owner** *commons.t_key*
 - **p_password** *commons.t_password_plaintext*
- Returns: boolean
- Execute privilege:
 - userlogin

10.2.5 Function "user"."sel_deputy"

sel deputy

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

10.2.6 Function "user"."upd_user"

change user passwd

- Parameters:
 - **p_password** *commons.t_password_plaintext*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

10.3 Domains

10.3.1 Domain "user"."t_user"

Username

10.4 Roles

10.4.1 Role "userlogin"

Do user actions via this group

- Login:

10.4.2 Role "system"

Highly privileged user

- Login:

11 Module “web”

Websites

This module sends the following signals:

- web/alias
- web/site

11.1 Tables

11.1.1 Table “web”.“alias”

Aliases

- Primary key:
 - domain
 - site_port
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
 - Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name
 2. **Reference subservice entity**
 - Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
 - Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice
 3. **site**
 - Columns:
 - a) site →
 - b) service_entity_name →
 - c) site_port →
 - Referenced columns:
 - a) web.site.domain
 - b) web.site.service_entity_name
 - c) web.site.port

4. dns

- Columns:
 - a) domain →
 - b) service →
 - c) service_entity_name →
- Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

site

Site

- Type: dns.t_domain

site_port

port

- Type: commons.t_port
- Default value: 80

11.1.2 Table "web"."https"

stores https information

- Primary key:
 - identifier
 - domain
 - port
- Foreign keys:
 1. **site**
 - Columns:
 - a) domain →
 - b) port →
 - Referenced columns:
 - a) web.site.domain
 - b) web.site.port

Columns

backend_status

Status of database entry in backend. *NULL*: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

identifier

PK

- Type: commons.t_key

domain

Domain

- Type: dns.t_domain

port

Port

- Type: commons.t_port

x509_request

Certificate request

- Type: web.t_cert
- Can be *NULL*

x509_certificate

Certificate

- Type: web.t_cert
- Can be *NULL*

authority_key_identifier

Identifier of the certificate that has signed this cert.
The Authority Key Identifier allows to build the chain of trust.
See .

Hopefully there exists an entry in web.intermediate_cert
or a root certificate with an equal subjectKeyIdentifier.

Is *NULL* whenever x509_certificate is *NULL*.

- Type: varchar
- Can be *NULL*

11.1.3 Table "web"."intermediate_cert"

Intermediate certificates

- Primary key:
 - subject_key_identifier

Columns

subject_key_identifier

Identifies this certificate

- Type: varchar

authority_key_identifier

Subject key identifier of the cert that has signed this cert.
NULL is not allowed, since self signed cert do not belong into intermediate certs.

- Type: varchar

x509_certificate

Intermediate certificate

- Type: web.t_cert

11.1.4 Table "web"."intermediate_chain"

xxx

- Primary key:
 - domain
 - port
 - identifier
 - subject_key_identifier

- Foreign keys:
 1. **https cert**
 - Columns:
 - a) domain →
 - b) port →
 - c) identifier →
 - Referenced columns:
 - a) web.https.domain
 - b) web.https.port
 - c) web.https.identifier

Columns

domain

Domain

- Type: dns.t_domain

port

Port

- Type: commons.t_port

identifier

Identifier

- Type: commons.t_key

order

Ordering from leaf to root

- Type: integer

subject_key_identifier

SubjectKeyIdentifier

- Type: varchar
- References: web.intermediate_cert.subject_key_identifier

11.1.5 Table "web"."site"

Website

- Primary key:
 - domain
 - port
- Foreign keys:
 1. **reference dns (service)**
 - Columns:
 - a) domain →

- b) service →
- c) service_entity_name →
- Referenced columns:
 - a) dns.service.domain
 - b) dns.service.service
 - c) dns.service.service_entity_name

2. Reference subservice entity

- Columns:
 - a) service_entity_name →
 - b) service →
 - c) subservice →
- Referenced columns:
 - a) system.subservice_entity.service_entity_name
 - b) system.subservice_entity.service
 - c) system.subservice_entity.subservice

3. https

- Columns:
 - a) domain →
 - b) port →
 - c) https →
- Referenced columns:
 - a) web.https.domain
 - b) web.https.port
 - c) web.https.identifier

4. server_access

- Columns:
 - a) user →
 - b) service_entity_name →
- Referenced columns:
 - a) server_access.user.user
 - b) server_access.user.service_entity_name

Columns

domain

Domain name

- Type: dns.t_domain

service

Service

- Type: commons.t_key

service_entity_name

ent. name

- Type: dns.t_domain

subservice

Subservice (e.g. account, alias)

- Type: commons.t_key

backend_status

Status of database entry in backend. NULL: nothing pending, 'ins': entry not present on backend client, 'upd': update pending on backend client, 'del': deletion pending on backend client.

- Type: backend.t_status
- Can be *NULL*
- Default value: 'ins'

option

Free options in JSON format

- Type: jsonb
- Default value: '{}'

port

Port

- Type: commons.t_port

user

Server account under which the httdocs reside

- Type: server_access.t_user

https

If null, HTTPS is deactivated

- Type: commons.t_key
- Can be *NULL*

11.2 Functions

11.2.1 Function "web". "del_alias"

del

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_site_port** *commons.t_port*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.2 Function "web"."del_intermediate_chain"

sdf

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
 - **p_identifier** *commons.t_key*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.3 Function "web"."del_site"

del

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.4 Function "web"."fwd_x509_request"

x509 request

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
 - **p_identifier** *commons.t_key*
 - **p_x509_request** *web.t_cert*
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: void
- Execute privilege:
 - backend

11.2.5 Function "web"."ins_alias"

Insert alias

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_site** *dns.t_domain*
 - **p_site_port** *commons.t_port*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.6 Function "web"."ins_https"

Ins HTTPS

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
 - **p_identifier** *commons.t_key*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.7 Function "web"."ins_intermediate_cert"

Xxx

- Parameters:
 - **p_subject_key_identifier** *varchar*
 - **p_authority_key_identifier** *varchar*
 - **p_x509_certificate** *web.t_cert*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.8 Function "web".**"ins_intermediate_chain"**

sdf

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
 - **p_identifier** *commons.t_key*
 - **p_order** *integer*
 - **p_subject_key_identifier** *varchar*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.9 Function "web".**"ins_site"**

Insert site

TODO: check owner and contingent

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
 - **p_user** *server_access.t_user*
 - **p_service_entity_name** *dns.t_domain*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.10 Function "web".**"sel_alias"**

Select alias

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

11.2.11 Function "web"."sel_https"

`sel https`

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

11.2.12 Function "web"."sel_intermediate_cert"

`int`

- Parameters:
 - **p_subject_key_identifier** *varchar*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

11.2.13 Function "web"."sel_intermediate_chain"

`sel`

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

11.2.14 Function "web"."sel_site"

Owner defined via `server_access`

- Parameters: *non*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: TABLE
- Execute privilege:
 - userlogin

11.2.15 Function "web"."srv_alias"

backend web.alias

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

11.2.16 Function "web"."srv_https"

Certs

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

11.2.17 Function "web"."srv_site"

backend web.site

- Parameters:
 - **p_include_inactive** *boolean*
- Variables defined for body:
 - **v_machine** *dns.t_domain*
- Returns: TABLE
- Execute privilege:
 - backend

11.2.18 Function "web"."upd_https"

upd https

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
 - **p_identifier** *commons.t_key*
 - **p_x509_certificate** *web.t_cert*
 - **p_authority_key_identifier** *varchar*
- Variables defined for body:
 - **v_owner** *user.t_user*

- **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.2.19 Function “web”.“upd_site”

set https identif.

- Parameters:
 - **p_domain** *dns.t_domain*
 - **p_port** *commons.t_port*
 - **p_identifier** *commons.t_key*
- Variables defined for body:
 - **v_owner** *user.t_user*
 - **v_login** *user.t_user*
- Returns: void
- Execute privilege:
 - userlogin

11.3 Domains

11.3.1 Domain “web”.“t_cert”

PEM cert