MongoDB Physical Model

Schema for:

Model name: New Model
Author:
Version:
File name: nse-beta.hck.json
File path: /Volumes/Scratch HD/Beck/NSe/Database/nse-beta.hck.json
Printed On: Thu Jun 01 2023 13:36:19 GMT-0400 (Eastern Daylight Time)
Created with: Hackolade - Polyglot data modeling for NoSQL databases, storage formats, REST APIs, and JSON in RDBMS

1. Model

2. Databases

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3.5 fk emailproviders._id to webhooks.provider
3.6 fk providerdetails._id to emailreports.providerDetails
3.7 fk providerdetails._id to emailreports.providerdetails
3.8 fk providerdetails._id to providergroups.providers.0
3.9 fk providergroups._id to emailreports.group
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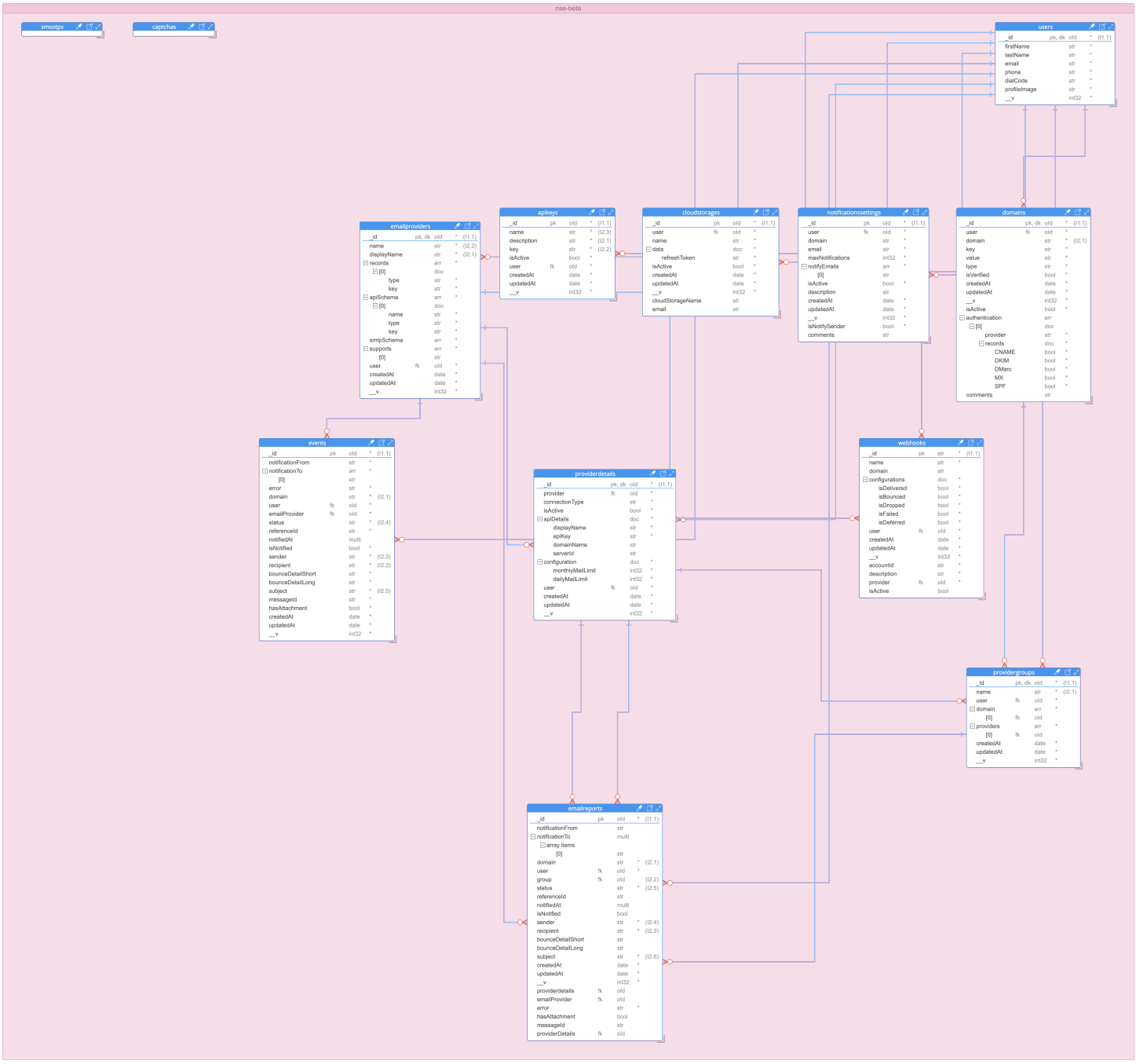
3.16 fk users._id to notificationssettings.user
3.17 fk users._id to providerdetails.user
3.18 fk users._id to providergroups.user
3.19 fk users._id to webhooks.user

1. MODEL

1.1 Model New Model

1.1.1 New Model Entity Relationship Diagram



1.1.2 New Model Properties

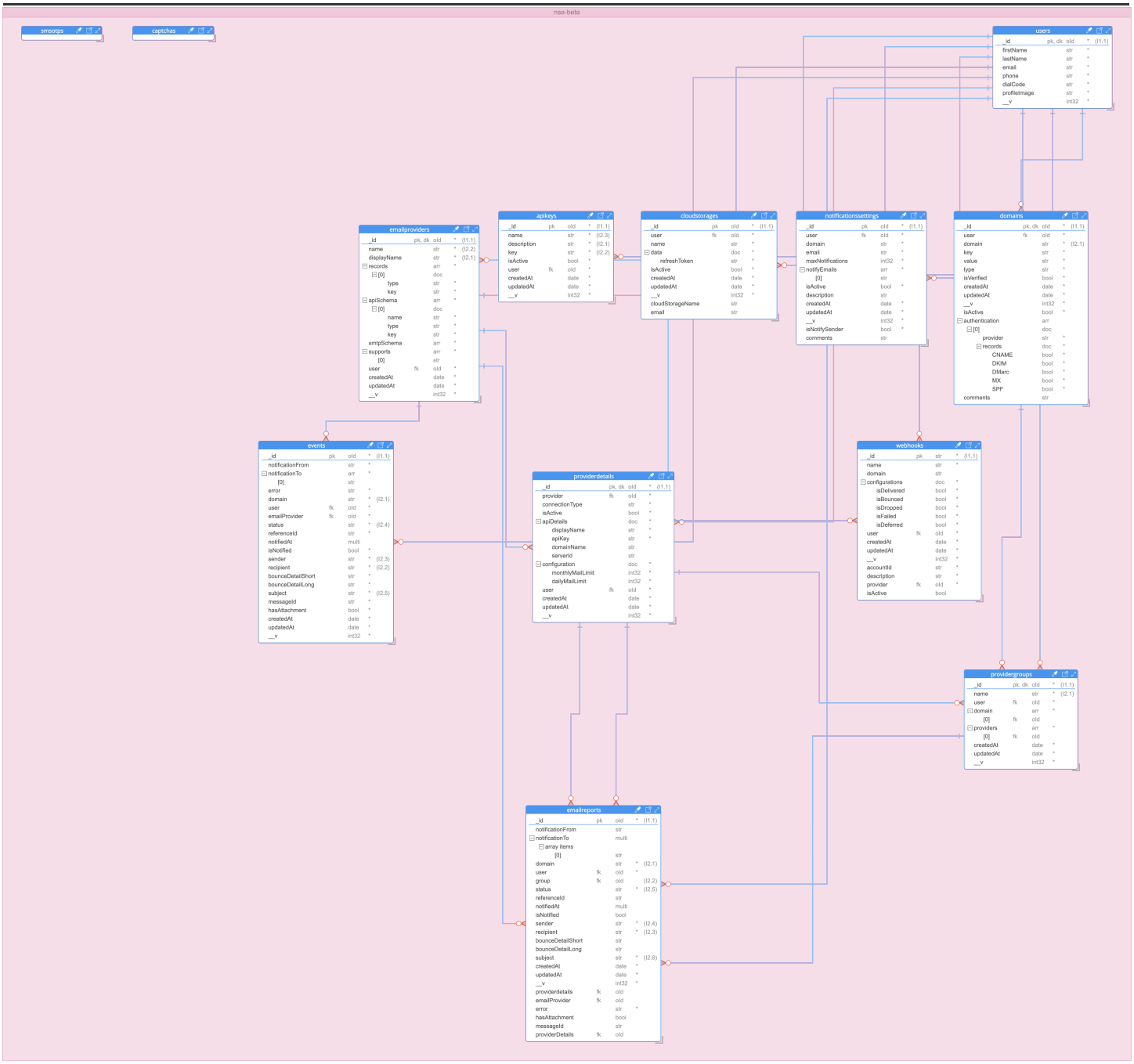
1.1.2.1 Details tab

PROPERTY	VALUE
Model name	New Model
Technical name	
Description	
Author	
Version	
Target	MongoDB
DB version	v5.0
Synchronization Id	
Lineage capture	
Polyglot models	
Comments	

1.1.3 New Model DB Definitions

2. DATABASES

2.1 Database nse-beta



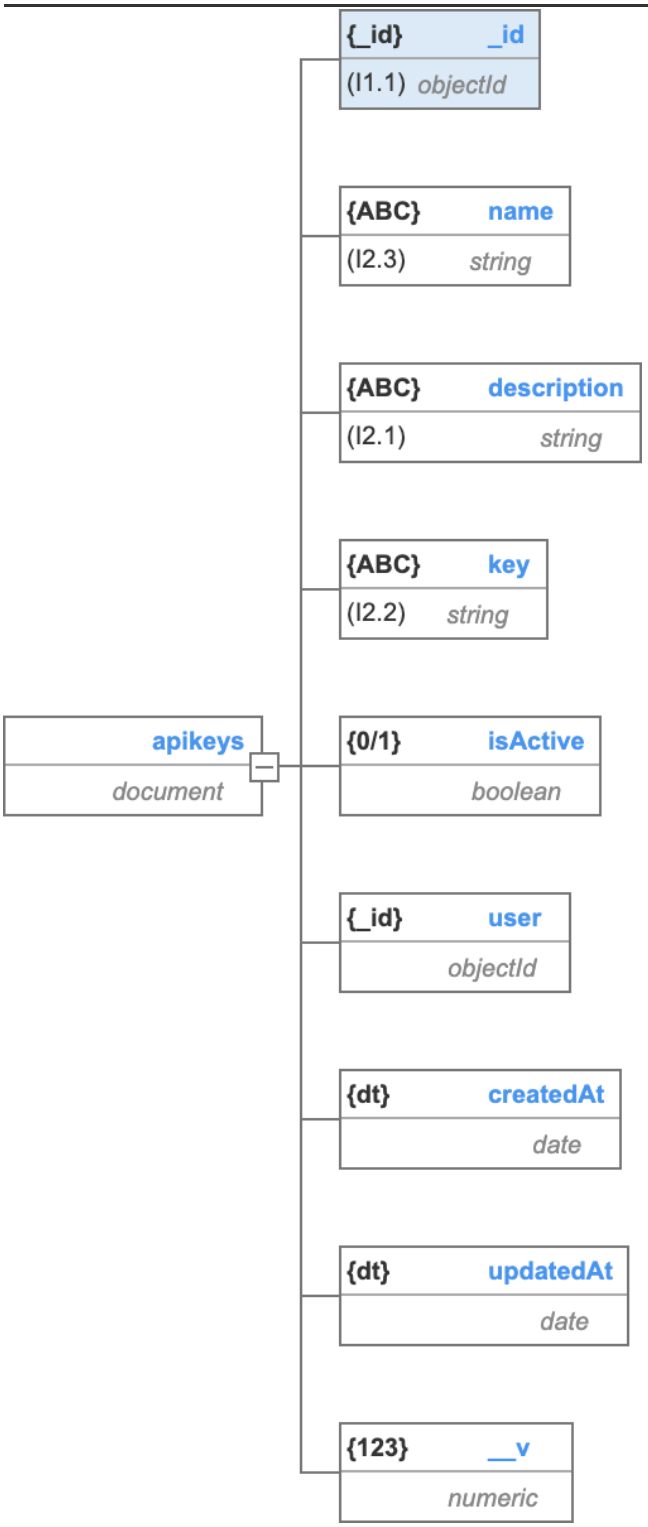
2.1.1 nse-beta Properties

PROPERTY	VALUE
Database name	nse-beta
Technical name	
Activated	true
Enable sharding	
Description	
Comments	

2.1.2 nse-beta Collections

2.1.2.1 Collection apikeys

2.1.2.1.1 apikeys Tree Diagram



2.1.2.1.2 apikeys Properties

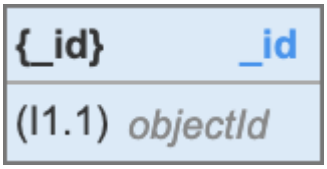
PROPERTY	VALUE
Collection name	apikeys
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.1.3 apikeys Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk		
name	string	true			
description	string	true			
key	string	true			
isActive	boolean	true			
user	objectId	true	fk		
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			

2.1.2.1.3.1 Field _id

2.1.2.1.3.1.1 _id Tree Diagram



2.1.2.1.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.1.3.2 Field name

2.1.2.1.3.2.1 name Tree Diagram

2.1.2.1.3.2.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	Key 1
Comments	

2.1.2.1.3.3 Field description

2.1.2.1.3.3.1 description Tree Diagram

2.1.2.1.3.3.2 description properties

PROPERTY	VALUE
Name	description
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.1.3.4 Field key

2.1.2.1.3.4.1 key Tree Diagram

2.1.2.1.3.4.2 key properties

PROPERTY	VALUE
Name	key
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	39RH2PA-D4XM8EQ-NCGHNC7-E4J4645
Comments	

2.1.2.1.3.5 Field isActive

2.1.2.1.3.5.1 isActive Tree Diagram

2.1.2.1.3.5.2 isActive properties

PROPERTY	VALUE
Name	isActive
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.1.3.6 Field user

2.1.2.1.3.6.1 user Tree Diagram

2.1.2.1.3.6.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to apikeys.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.1.3.7 Field createdAt

2.1.2.1.3.7.1 createdAt Tree Diagram

2.1.2.1.3.7.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.1.3.8 Field updatedAt

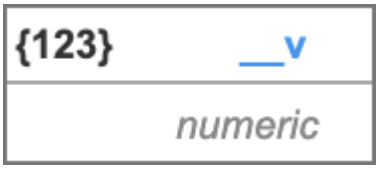
2.1.2.1.3.8.1 updatedAt Tree Diagram

2.1.2.1.3.8.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.1.3.9 Field __v

2.1.2.1.3.9.1 __v Tree Diagram



2.1.2.1.3.9.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.1.4 apikeys Indexes

PROPERTY	_ID_	NAME_TEXT_DESCRIPTION_TEXT_KEY_TEXT
Name	_id_	name_text_description_text_key_text
Activated		
Key	_id('ascending')	description('text'), key('text'), name('text')
Wildcard index		
Hashed		
Unique		
Drop duplicates		
Sparse		
Background indexing		true
Partial filter exp		
Expire after (seconds)		
Storage engine		
Comments		

2.1.2.1.5 apikeys JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "apikeys",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "name": {
            "type": "string"
        },
        "description": {
            "type": "string"
        },
        "key": {
            "type": "string"
        },
        "isActive": {
            "type": "boolean"
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "name",
        "description",
        "key",
        "isActive",
        "user",
        "createdAt",
        "updatedAt",
        "__v"
    ]
}
```


2.1.2.1.6 apikeys JSON data

```
{
    "_id": ObjectId("d6aded2eb2eeda0b2aa4ff02"),
    "name": "Key 1",
    "description": "Lorem",
    "key": "39RH2PA-D4XM8EQ-NCGHNC7-E4J4645",
    "isActive": true,
    "user": ObjectId("c5c236c7c2ccaff10a4eddd6"),
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0)
}
```


2.1.2.1.7 apikeys Target Script

```
use nse-beta;

db.createCollection("apikeys", {
    "capped": false,
    "validator": {
        "$jsonSchema": {
            "bsonType": "object",
            "title": "apikeys",
            "properties": {
                "_id": {
                    "bsonType": "objectId"
                },
                "name": {
                    "bsonType": "string"
                },
                "description": {
                    "bsonType": "string"
                },
                "key": {
                    "bsonType": "string"
                },
                "isActive": {
                    "bsonType": "bool"
                },
                "user": {
                    "bsonType": "objectId"
                },
                "createdAt": {
                    "bsonType": "date"
                },
                "updatedAt": {
                    "bsonType": "date"
                },
                "__v": {
                    "bsonType": "int"
                }
            },
            "additionalProperties": true,
            "required": [
                "_id",
                "name",
                "description",
                "key",
                "isActive",
                "user",
                "createdAt",
                "updatedAt",
                "__v"
            ]
        }
    },
    "validationLevel": "off",
    "validationAction": "warn"
});

db.apikeys.createIndex({
    "_id": 1
},
{
    "name": "_id_"
```

```
});

db.apikeys.createIndex({
    "description": "text",
    "key": "text",
    "name": "text"
},
{
    "name": "name_text_description_text_key_text",
    "background": true,
    "weights": {
        "description": 1,
        "key": 1,
        "name": 1
    },
    "default_language": "english",
    "language_override": "language",
    "textIndexVersion": 3
});
```

2.1.2.2 Collection captchas

2.1.2.2.1 captchas Tree Diagram

2.1.2.2.2 captchas Properties

PROPERTY	VALUE
Collection name	captchas
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.2.3 captchas Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS

2.1.2.2.4 captchas JSON Schema

```
{
   "$schema": "http://json-schema.org/draft-04/schema#",
   "type": "object",
   "title": "captchas",
   "additionalProperties": true
}
```

2.1.2.2.5 captchas JSON data

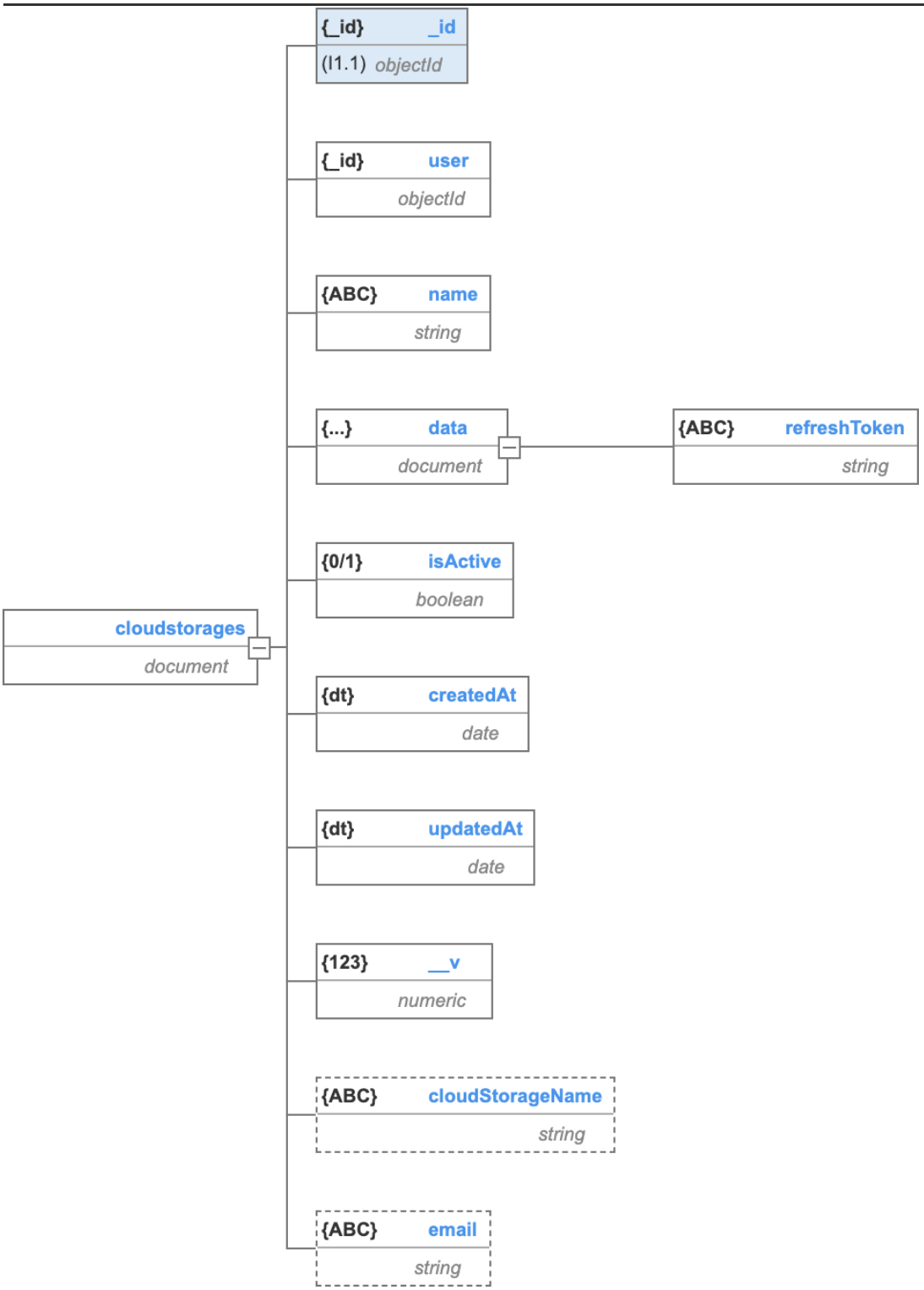
```
{}
```

2.1.2.2.6 captchas Target Script

```
use nse-beta;

db.createCollection("captchas", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "captchas",
         "additionalProperties": true,
         "properties": {
            "_id": {
               "bsonType": "objectId"
            }
         }
      }
   },
   "validationLevel": "off",
   "validationAction": "warn"
});
```

2.1.2.3 Collection cloudstorages

2.1.2.3.1 cloudstorages Tree Diagram



2.1.2.3.2 cloudstorages Properties

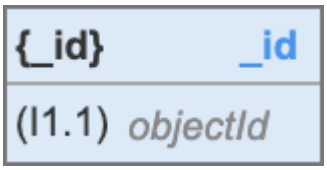
PROPERTY	VALUE
Collection name	cloudstorages
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.3.3 cloudstorages Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk		
user	objectId	true	fk		
name	string	true			
data	document	true			
refreshToken	string	true			
isActive	boolean	true			
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			
cloudStorageName	string	false			
email	string	false			

2.1.2.3.3.1 Field _id

2.1.2.3.3.1.1 _id Tree Diagram



2.1.2.3.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.3.3.2 Field user

2.1.2.3.3.2.1 user Tree Diagram

2.1.2.3.3.2.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to cloudstorages.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.3.3.3 Field name

2.1.2.3.3.3.1 name Tree Diagram

2.1.2.3.3.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	Beck Dropbox
Comments	

2.1.2.3.4 Field data

2.1.2.3.4.1 data Tree Diagram

2.1.2.3.4.2 data Hierarchy

Parent field: **cloudstorages**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
refreshToken	string	true			

2.1.2.3.3.4.3 data properties

PROPERTY	VALUE
Name	data
Technical name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.3.3.5 Field refreshToken

2.1.2.3.3.5.1 refreshToken Tree Diagram

2.1.2.3.3.5.2 refreshToken properties

PROPERTY	VALUE
Name	refreshToken
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	X3trjqHxEnUAAAAAAAAAAWaThSJ9dhJQS5Ep3UJTevt7PeiQtS2B1ynP-Jc3sZnR
Comments	

2.1.2.3.3.6 Field isActive

2.1.2.3.3.6.1 isActive Tree Diagram

2.1.2.3.3.6.2 isActive properties

PROPERTY	VALUE
Name	isActive
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.3.3.7 Field createdAt

2.1.2.3.3.7.1 createdAt Tree Diagram

2.1.2.3.3.7.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.3.3.8 Field updatedAt

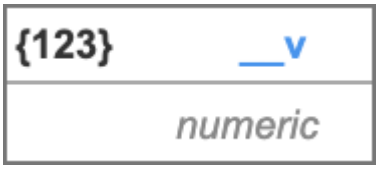
2.1.2.3.3.8.1 updatedAt Tree Diagram

2.1.2.3.3.8.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.3.3.9 Field __v

2.1.2.3.3.9.1 __v Tree Diagram



2.1.2.3.3.9.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.3.3.10 Field cloudStorageName

2.1.2.3.3.10.1 cloudStorageName Tree Diagram

2.1.2.3.3.10.2 cloudStorageName properties

PROPERTY	VALUE
Name	cloudStorageName
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	DROPBOX
Comments	

2.1.2.3.3.11 Field email

2.1.2.3.3.11.1 email Tree Diagram

2.1.2.3.3.11.2 email properties

PROPERTY	VALUE
Name	email
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	admin@beckcomputers.com
Comments	

2.1.2.3.4 cloudstorages Indexes

PROPERTY	_ID_
Name	_id_
Activated	
Key	_id('ascending')
Wildcard index	
Hashed	
Unique	
Drop duplicates	
Sparse	
Background indexing	
Partial filter exp	
Expire after (seconds)	
Storage engine	
Comments	

2.1.2.3.5 cloudstorages JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "cloudstorages",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "name": {
            "type": "string"
        },
        "data": {
            "type": "object",
            "properties": {
                "refreshToken": {
                    "type": "string"
                }
            },
            "additionalProperties": true,
            "required": [
                "refreshToken"
            ]
        },
        "isActive": {
            "type": "boolean"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        },
        "cloudStorageName": {
            "type": "string"
        },
        "email": {
            "type": "string"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "user",
        "name",
        "data",
        "isActive",
        "createdAt",
        "updatedAt",
        "__v"
```

```
    ]
}
```

2.1.2.3.6 cloudstorages JSON data

```
{
    "_id": ObjectId("0b81def3a8ec3fc088e2afdb"),
    "user": ObjectId("c3a073bebc547dfca15fdf31"),
    "name": "Beck Dropbox",
    "data": {
        "refreshToken": "X3trjqHxEnUAAAAAAAAAAWaThSJ9dhJQS5Ep3UJTevt7PeiQtS2B1ynP-Jc3sZnR"
    },
    "isActive": true,
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0),
    "cloudStorageName": "DROPBOX",
    "email": "admin@beckcomputers.com"
}
```

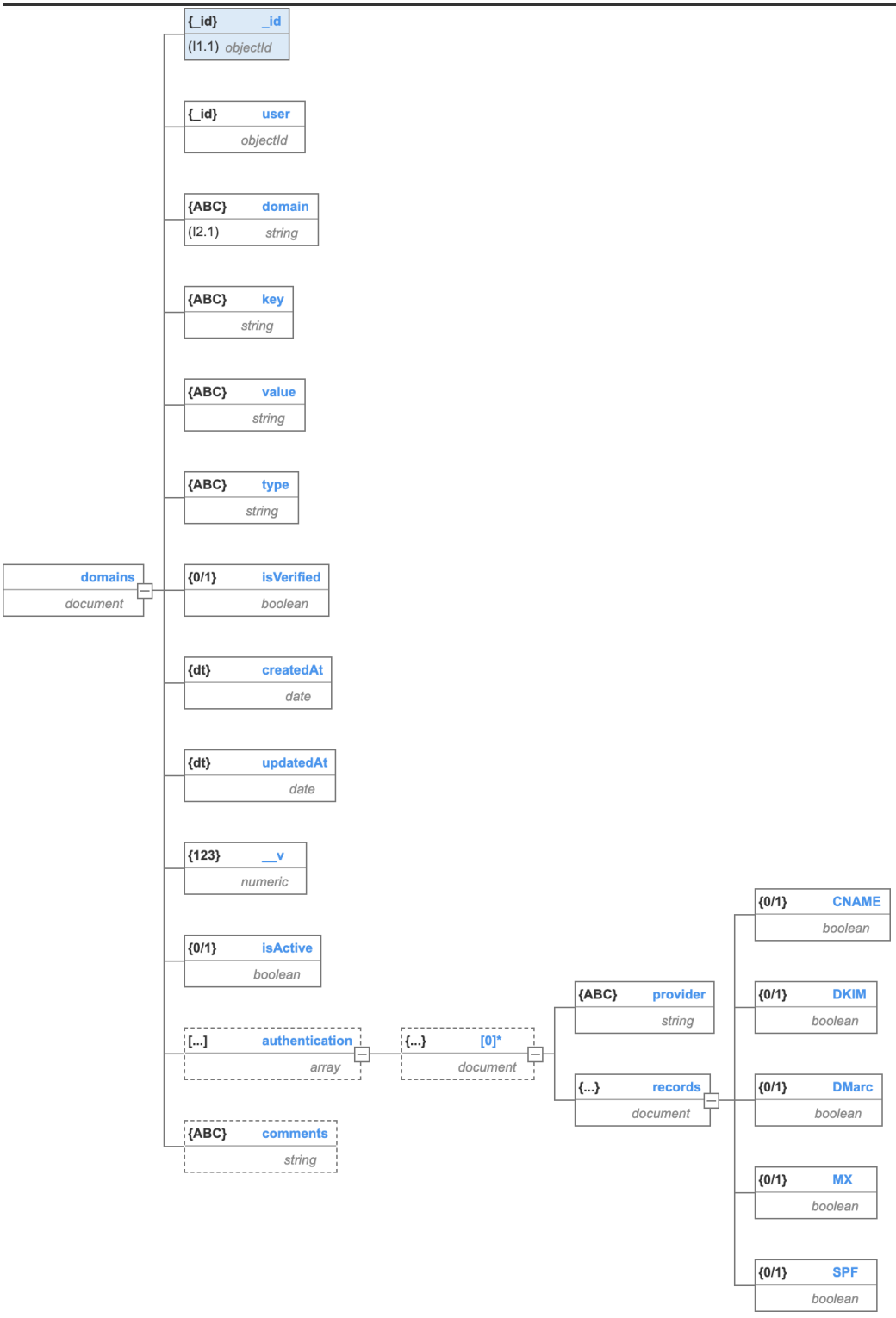
2.1.2.3.7 cloudstorages Target Script

```
use nse-beta;

db.createCollection("cloudstorages", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "cloudstorages",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "user": {
               "bsonType": "objectId"
            },
            "name": {
               "bsonType": "string"
            },
            "data": {
               "bsonType": "object",
               "properties": {
                  "refreshToken": {
                     "bsonType": "string"
                  }
               },
               "additionalProperties": true,
               "required": [
                  "refreshToken"
               ]
            },
            "isActive": {
               "bsonType": "bool"
            },
            "createdAt": {
               "bsonType": "date"
            },
            "updatedAt": {
               "bsonType": "date"
            },
            "__v": {
               "bsonType": "int"
            },
            "cloudStorageName": {
               "bsonType": "string"
            },
            "email": {
               "bsonType": "string"
            }
         },
         "additionalProperties": true,
         "required": [
            "_id",
            "user",
            "name",
            "data",
            "isActive",
            "createdAt",
            "updatedAt",
            "__v"
         ]
```

```
        }
    },
    "validationLevel": "off",
    "validationAction": "warn"
});

db.cloudstorages.createIndex({
    "_id": 1
},
{
    "name": "_id_"
});
```

2.1.2.4 Collection domains

2.1.2.4.1 domains Tree Diagram



2.1.2.4.2 domains Properties

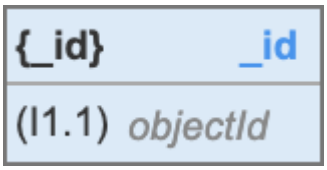
PROPERTY	VALUE
Collection name	domains
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.4.3 domains Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk, dk		
user	objectId	true	fk		
domain	string	true			
key	string	true			
value	string	true			
type	string	true			
isVerified	boolean	true			
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			
isActive	boolean	true			
authentication	array	false			
[0]	document	false			
provider	string	true			
records	document	true			
CNAME	boolean	true			
DKIM	boolean	true			
DMarc	boolean	true			
MX	boolean	true			
SPF	boolean	true			
comments	string	false			

2.1.2.4.3.1 Field _id

2.1.2.4.3.1.1 _id Tree Diagram



2.1.2.4.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.4.3.2 Field user

2.1.2.4.3.2.1 user Tree Diagram

2.1.2.4.3.2.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to domains.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.4.3.3 Field domain

2.1.2.4.3.3.1 domain Tree Diagram

2.1.2.4.3.3.2 domain properties

PROPERTY	VALUE
Name	domain
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	gmail.com
Comments	

2.1.2.4.3.4 Field key

2.1.2.4.3.4.1 key Tree Diagram

2.1.2.4.3.4.2 key properties

PROPERTY	VALUE
Name	key
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	gmail.com
Comments	

2.1.2.4.3.5 Field value

2.1.2.4.3.5.1 value Tree Diagram

2.1.2.4.3.5.2 value properties

PROPERTY	VALUE
Name	value
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	nse-site-verification-LQKPNqIN5r5Rr1FxzoqFQ3m7NyXo0o
Comments	

2.1.2.4.3.6 Field type

2.1.2.4.3.6.1 type Tree Diagram

2.1.2.4.3.6.2 type properties

PROPERTY	VALUE
Name	type
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	TXT
Comments	

2.1.2.4.3.7 Field isVerified

2.1.2.4.3.7.1 isVerified Tree Diagram

2.1.2.4.3.7.2 isVerified properties

PROPERTY	VALUE
Name	isVerified
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.4.3.8 Field createdAt

2.1.2.4.3.8.1 createdAt Tree Diagram

2.1.2.4.3.8.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.4.3.9 Field updatedAt

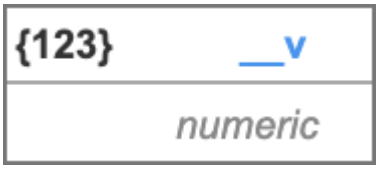
2.1.2.4.3.9.1 updatedAt Tree Diagram

2.1.2.4.3.9.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.4.3.10 Field __v

2.1.2.4.3.10.1 __v Tree Diagram



2.1.2.4.3.10.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.4.3.11 Field isActive

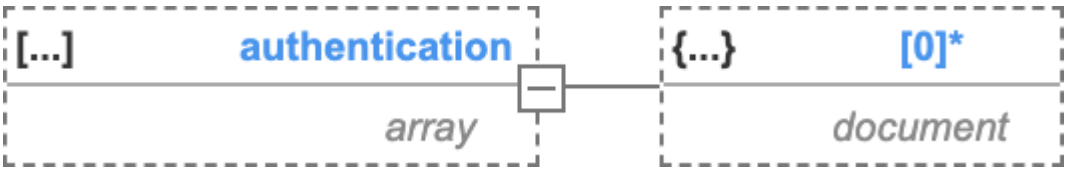
2.1.2.4.3.11.1 isActive Tree Diagram

2.1.2.4.3.11.2 isActive properties

PROPERTY	VALUE
Name	isActive
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.4.3.12 Field authentication

2.1.2.4.3.12.1 authentication Tree Diagram



2.1.2.4.3.12.2 authentication Hierarchy

Parent field: **domains**
Child field(s):

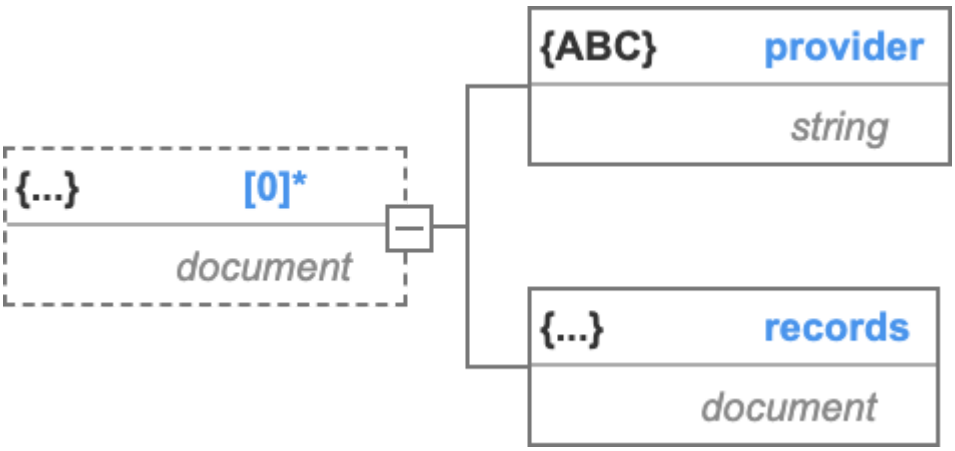
FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	document	false			

2.1.2.4.3.12.3 authentication properties

PROPERTY	VALUE
Name	authentication
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.4.3.13 Field [0]

2.1.2.4.3.13.1 [0] Tree Diagram



2.1.2.4.3.13.2 [0] Hierarchy

Parent field: **authentication**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
provider	string	true			
records	document	true			

2.1.2.4.3.13.3 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Primary key	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.4.3.14 Field provider

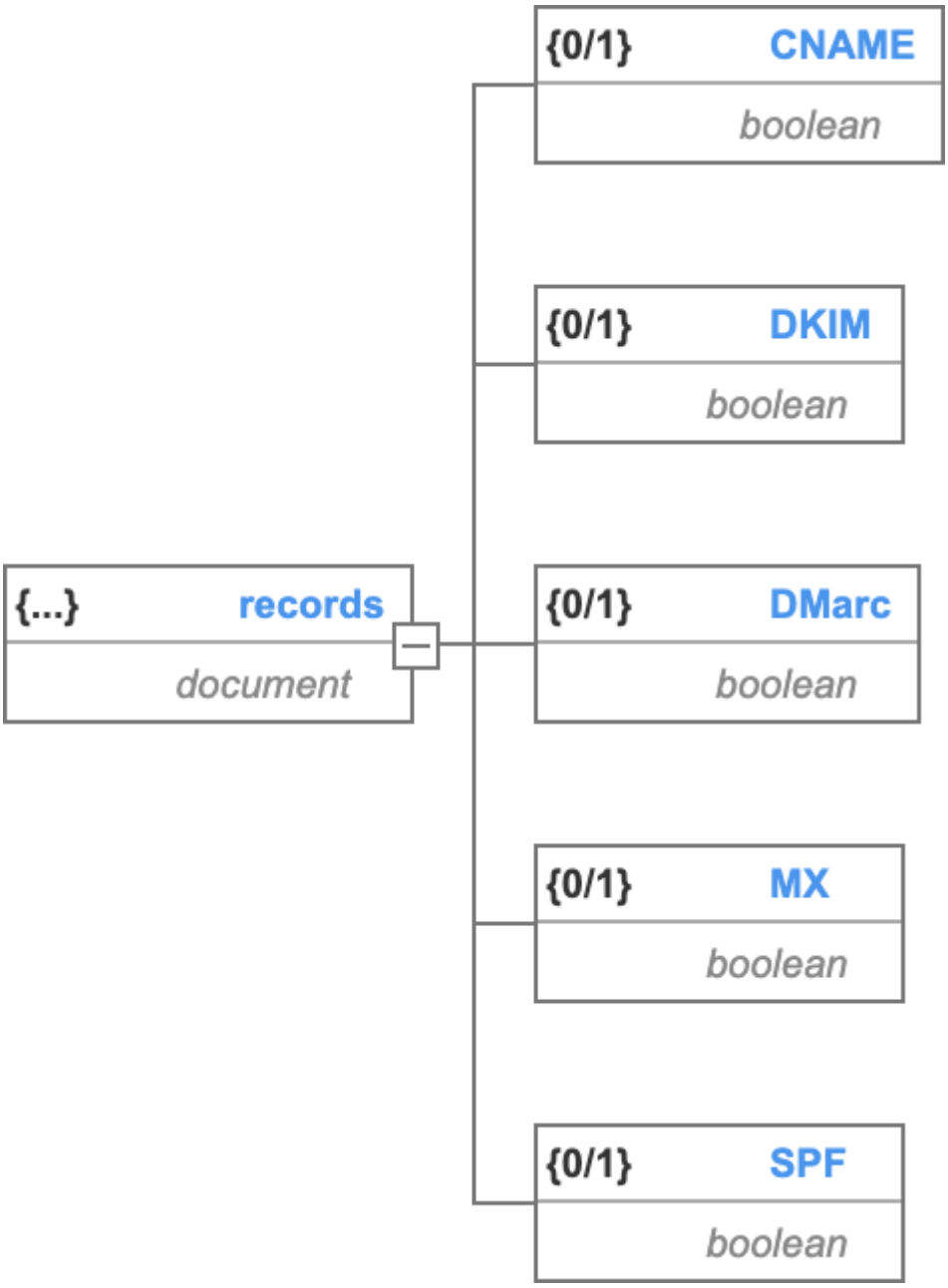
2.1.2.4.3.14.1 provider Tree Diagram

2.1.2.4.3.14.2 provider properties

PROPERTY	VALUE
Name	provider
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	sendinblue
Comments	

2.1.2.4.3.15 Field records

2.1.2.4.3.15.1 records Tree Diagram



2.1.2.4.3.15.2 records Hierarchy

Parent field: **[0]**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
CNAME	boolean	true			
DKIM	boolean	true			
DMarc	boolean	true			
MX	boolean	true			
SPF	boolean	true			

2.1.2.4.3.15.3 records properties

PROPERTY	VALUE
Name	records
Technical name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.4.3.16 Field CNAME

2.1.2.4.3.16.1 CNAME Tree Diagram

2.1.2.4.3.16.2 CNAME properties

PROPERTY	VALUE
Name	CNAME
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.4.3.17 Field DKIM

2.1.2.4.3.17.1 DKIM Tree Diagram

2.1.2.4.3.17.2 DKIM properties

PROPERTY	VALUE
Name	DKIM
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.4.3.18 Field DMarc

2.1.2.4.3.18.1 DMarc Tree Diagram

2.1.2.4.3.18.2 DMarc properties

PROPERTY	VALUE
Name	DMarc
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.4.3.19 Field MX

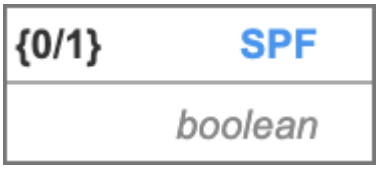
2.1.2.4.3.19.1 MX Tree Diagram

2.1.2.4.3.19.2 MX properties

PROPERTY	VALUE
Name	MX
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.4.3.20 Field SPF

2.1.2.4.3.20.1 SPF Tree Diagram



2.1.2.4.3.20.2 SPF properties

PROPERTY	VALUE
Name	SPF
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.4.3.21 Field comments

2.1.2.4.3.21.1 comments Tree Diagram

2.1.2.4.3.21.2 comments properties

PROPERTY	VALUE
Name	comments
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.4.4 domains Indexes

PROPERTY	_ID_	DOMAIN_TEXT
Name	_id_	domain_text
Activated		
Key	_id('ascending')	domain('text')
Wildcard index		
Hashed		
Unique		
Drop duplicates		
Sparse		
Background indexing		true
Partial filter exp		
Expire after (seconds)		
Storage engine		
Comments		

2.1.2.4.5 domains JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "domains",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "domain": {
            "type": "string"
        },
        "key": {
            "type": "string"
        },
        "value": {
            "type": "string"
        },
        "type": {
            "type": "string"
        },
        "isVerified": {
            "type": "boolean"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        },
        "isActive": {
            "type": "boolean"
        },
        "authentication": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "object",
                "properties": {
                    "provider": {
                        "type": "string"
                    },
                    "records": {
                        "type": "object",
                        "properties": {
                            "CNAME": {
                                "type": "boolean"
                            },
                            "DKIM": {
                                "type": "boolean"
                            },
```

```
                        "DMarc": {
                            "type": "boolean"
                        },
                        "MX": {
                            "type": "boolean"
                        },
                        "SPF": {
                            "type": "boolean"
                        }
                    },
                    "additionalProperties": true,
                    "required": [
                        "CNAME",
                        "DKIM",
                        "DMarc",
                        "MX",
                        "SPF"
                    ]
                }
            },
            "additionalProperties": true,
            "required": [
                "provider",
                "records"
            ]
        }
    },
    "comments": {
        "type": "string"
    }
},
"additionalProperties": true,
"required": [
    "_id",
    "user",
    "domain",
    "key",
    "value",
    "type",
    "isVerified",
    "createdAt",
    "updatedAt",
    "__v",
    "isActive"
]
}
```


2.1.2.4.6 domains JSON data

```
{
    "_id": ObjectId("99bcff10da285cf813a9a8bd"),
    "user": ObjectId("3a79fb12b6c7b321db006c7d"),
    "domain": "gmail.com",
    "key": "gmail.com",
    "value": "nse-site-verification-LQKPNqIN5r5Rr1FxzoqFQ3m7NyXo0o",
    "type": "TXT",
    "isVerified": true,
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0),
    "isActive": true,
    "authentication": [
        {
            "provider": "sendinblue",
            "records": {
                "CNAME": false,
                "DKIM": false,
                "DMarc": true,
                "MX": false,
                "SPF": false
            }
        }
    ],
    "comments": "Lorem"
}
```


2.1.2.4.7 domains Target Script

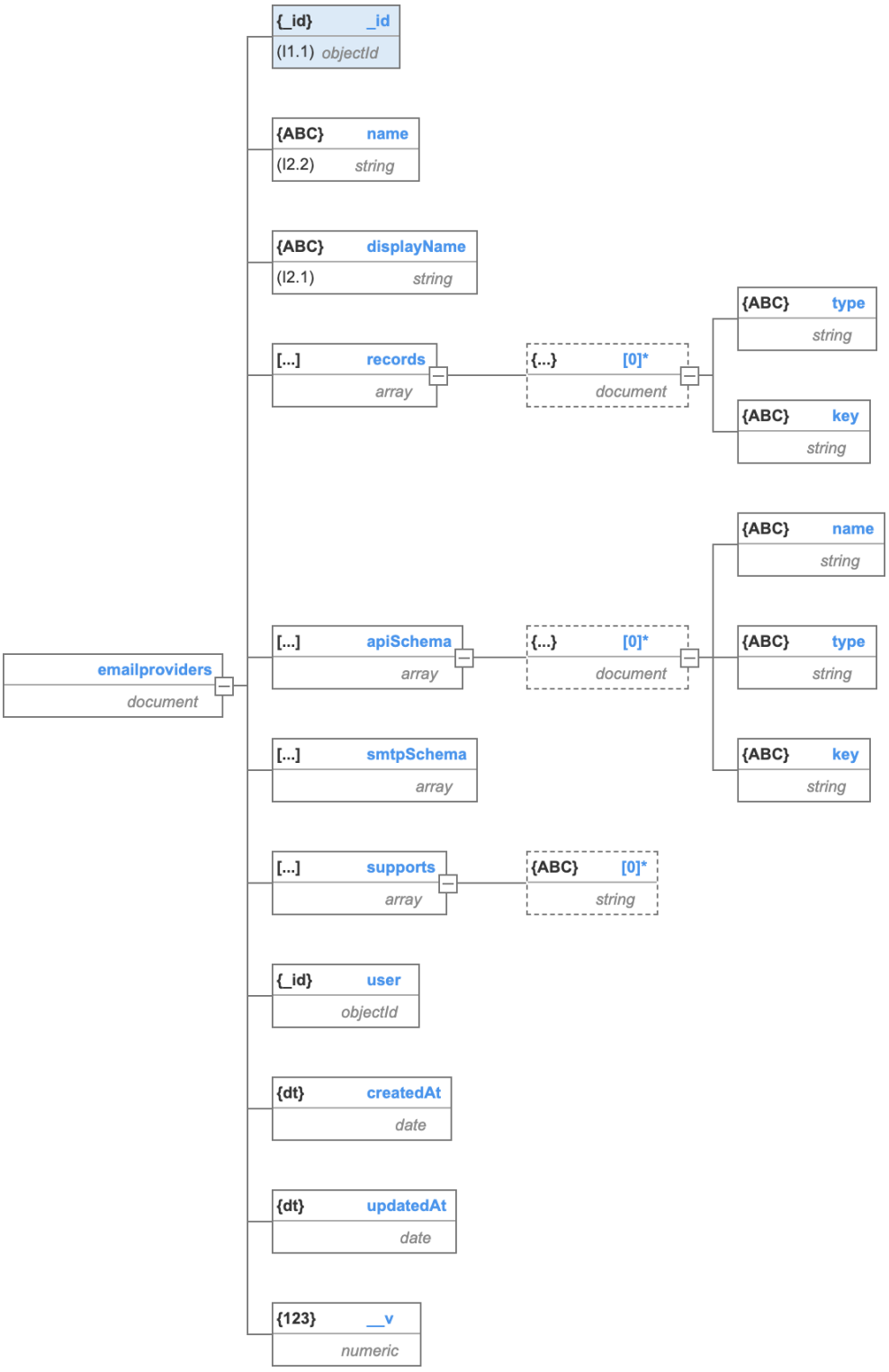
```
use nse-beta;

db.createCollection("domains", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "domains",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "user": {
               "bsonType": "objectId"
            },
            "domain": {
               "bsonType": "string"
            },
            "key": {
               "bsonType": "string"
            },
            "value": {
               "bsonType": "string"
            },
            "type": {
               "bsonType": "string"
            },
            "isVerified": {
               "bsonType": "bool"
            },
            "createdAt": {
               "bsonType": "date"
            },
            "updatedAt": {
               "bsonType": "date"
            },
            "__v": {
               "bsonType": "int"
            },
            "isActive": {
               "bsonType": "bool"
            },
            "authentication": {
               "bsonType": "array",
               "additionalItems": true,
               "items": {
                  "bsonType": "object",
                  "properties": {
                     "provider": {
                        "bsonType": "string"
                     },
                     "records": {
                        "bsonType": "object",
                        "properties": {
                           "CNAME": {
                              "bsonType": "bool"
                           },
                           "DKIM": {
                              "bsonType": "bool"
                           },
```

```
                        "DMarc": {
                            "bsonType": "bool"
                        },
                        "MX": {
                            "bsonType": "bool"
                        },
                        "SPF": {
                            "bsonType": "bool"
                        }
                    },
                    "additionalProperties": true,
                    "required": [
                        "CNAME",
                        "DKIM",
                        "DMarc",
                        "MX",
                        "SPF"
                    ]
                }
            },
            "additionalProperties": true,
            "required": [
                "provider",
                "records"
            ]
        }
    },
    "comments": {
        "bsonType": "string"
    }
},
"additionalProperties": true,
"required": [
    "_id",
    "user",
    "domain",
    "key",
    "value",
    "type",
    "isVerified",
    "createdAt",
    "updatedAt",
    "__v",
    "isActive"
]
}
},
"validationLevel": "off",
"validationAction": "warn"
});

db.domains.createIndex({
"_id": 1
},
{
"name": "_id_"
});

db.domains.createIndex({
"domain": "text"
},
```

```
{
    "name": "domain_text",
    "background": true,
    "weights": {
        "domain": 1
    },
    "default_language": "english",
    "language_override": "language",
    "textIndexVersion": 3
});
```

2.1.2.5 Collection emailproviders

2.1.2.5.1 emailproviders Tree Diagram



2.1.2.5.2 emailproviders Properties

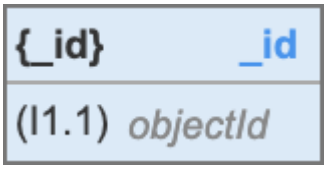
PROPERTY	VALUE
Collection name	emailproviders
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.5.3 emailproviders Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk, dk		
name	string	true			
displayName	string	true			
records	array	true			
[0]	document	false			
type	string	true			
key	string	true			
apiSchema	array	true			
[0]	document	false			
name	string	true			
type	string	true			
key	string	true			
smtpSchema	array	true			
supports	array	true			
[0]	string	false			
user	objectId	true	fk		
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			

2.1.2.5.3.1 Field _id

2.1.2.5.3.1.1 _id Tree Diagram



2.1.2.5.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.5.3.2 Field name

2.1.2.5.3.2.1 name Tree Diagram

2.1.2.5.3.2.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	Mailgun
Comments	

2.1.2.5.3.3 Field displayName

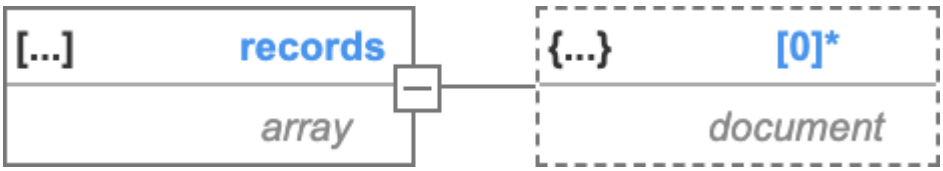
2.1.2.5.3.3.1 displayName Tree Diagram

2.1.2.5.3.3.2 displayName properties

PROPERTY	VALUE
Name	displayName
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.5.3.4 Field records

2.1.2.5.3.4.1 records Tree Diagram



2.1.2.5.3.4.2 records Hierarchy

Parent field: **emailproviders**
Child field(s):

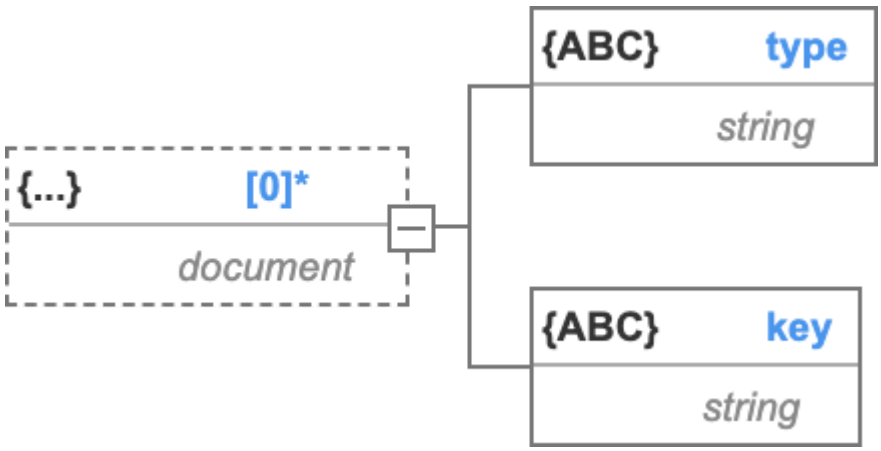
FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	document	false			

2.1.2.5.3.4.3 records properties

PROPERTY	VALUE
Name	records
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.5.3.5 Field [0]

2.1.2.5.3.5.1 [0] Tree Diagram



2.1.2.5.3.5.2 [0] Hierarchy

Parent field: **records**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
type	string	true			
key	string	true			

2.1.2.5.3.5.3 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Primary key	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.5.3.6 Field type

2.1.2.5.3.6.1 type Tree Diagram

2.1.2.5.3.6.2 type properties

PROPERTY	VALUE
Name	type
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	CNAME
Comments	

2.1.2.5.3.7 Field key

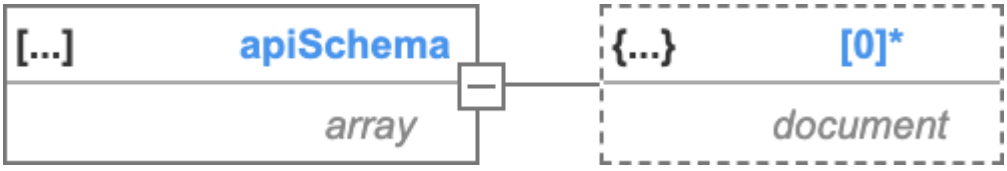
2.1.2.5.3.7.1 key Tree Diagram

2.1.2.5.3.7.2 key properties

PROPERTY	VALUE
Name	key
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	em10.[DOMAIN]
Comments	

2.1.2.5.3.8 Field apiSchema

2.1.2.5.3.8.1 apiSchema Tree Diagram



2.1.2.5.3.8.2 apiSchema Hierarchy

Parent field: **emailproviders**
Child field(s):

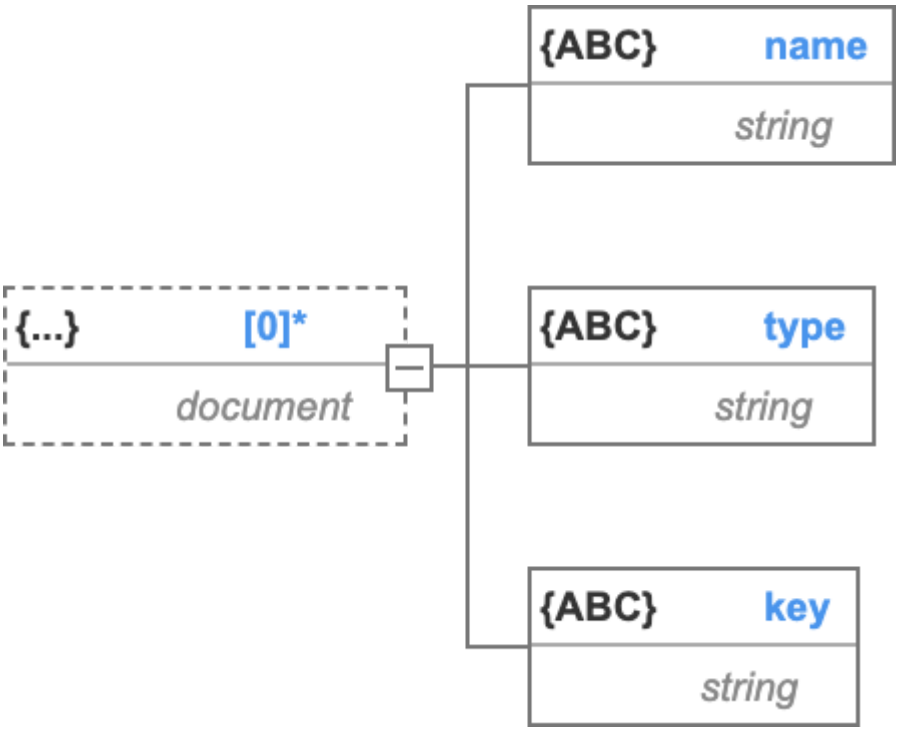
FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	document	false			

2.1.2.5.3.8.3 apiSchema properties

PROPERTY	VALUE
Name	apiSchema
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.5.3.9 Field [0]

2.1.2.5.3.9.1 [0] Tree Diagram



2.1.2.5.3.9.2 [0] Hierarchy

Parent field: **apiSchema**
Child field(s):

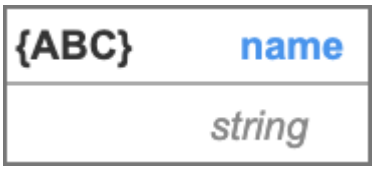
FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
name	string	true			
type	string	true			
key	string	true			

2.1.2.5.3.9.3 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Primary key	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.5.3.10 Field name

2.1.2.5.3.10.1 name Tree Diagram



2.1.2.5.3.10.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	API Key
Comments	

2.1.2.5.3.11 Field type

2.1.2.5.3.11.1 type Tree Diagram

2.1.2.5.3.11.2 type properties

PROPERTY	VALUE
Name	type
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	text
Comments	

2.1.2.5.3.12 Field key

2.1.2.5.3.12.1 key Tree Diagram

2.1.2.5.3.12.2 key properties

PROPERTY	VALUE
Name	key
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	apiKey
Comments	

2.1.2.5.3.13 Field smtpSchema

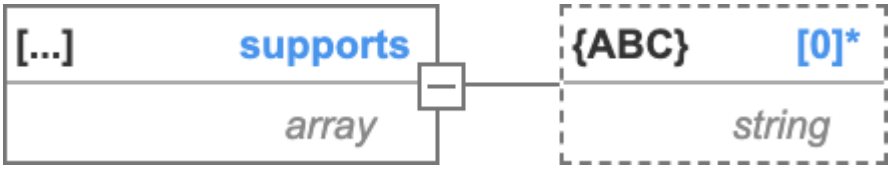
2.1.2.5.3.13.1 smtpSchema Tree Diagram

2.1.2.5.3.13.2 smtpSchema properties

PROPERTY	VALUE
Name	smtpSchema
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.5.3.14 Field supports

2.1.2.5.3.14.1 supports Tree Diagram



2.1.2.5.3.14.2 supports Hierarchy

Parent field: **emailproviders**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	string	false			

2.1.2.5.3.14.3 supports properties

PROPERTY	VALUE
Name	supports
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.5.3.15 Field [0]

2.1.2.5.3.15.1 [0] Tree Diagram

2.1.2.5.3.15.2 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Primary key	
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	API
Comments	

2.1.2.5.3.16 Field user

2.1.2.5.3.16.1 user Tree Diagram

2.1.2.5.3.16.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to emailproviders.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.5.3.17 Field createdAt

2.1.2.5.3.17.1 createdAt Tree Diagram

2.1.2.5.3.17.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.5.3.18 Field updatedAt

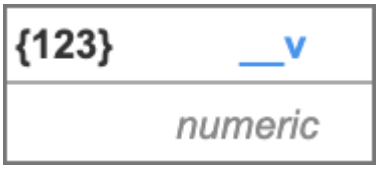
2.1.2.5.3.18.1 updatedAt Tree Diagram

2.1.2.5.3.18.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.5.3.19 Field __v

2.1.2.5.3.19.1 __v Tree Diagram



2.1.2.5.3.19.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.5.4 emailproviders Indexes

PROPERTY	_ID_	NAME_TEXT_DISPLAYNAME_TEXT
Name	_id_	name_text_displayName_text
Activated		
Key	_id('ascending')	displayName('text'), name('text')
Wildcard index		
Hashed		
Unique		
Drop duplicates		
Sparse		
Background indexing		true
Partial filter exp		
Expire after (seconds)		
Storage engine		
Comments		

2.1.2.5.5 emailproviders JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "emailproviders",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "name": {
            "type": "string"
        },
        "displayName": {
            "type": "string"
        },
        "records": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "object",
                "properties": {
                    "type": {
                        "type": "string"
                    },
                    "key": {
                        "type": "string"
                    }
                },
                "additionalProperties": true,
                "required": [
                    "type",
                    "key"
                ]
            }
        },
        "apiSchema": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "object",
                "properties": {
                    "name": {
                        "type": "string"
                    },
                    "type": {
                        "type": "string"
                    },
                    "key": {
                        "type": "string"
                    }
                },
                "additionalProperties": true,
                "required": [
                    "name",
                    "type",
                    "key"
                ]
            }
        },
        "smtpSchema": {
```

```
            "type": "array",
            "additionalItems": true
        },
        "supports": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "string"
            }
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "name",
        "displayName",
        "records",
        "apiSchema",
        "smtpSchema",
        "supports",
        "user",
        "createdAt",
        "updatedAt",
        "__v"
    ]
}
```


2.1.2.5.6 emailproviders JSON data

```
{
    "_id": ObjectId("be55f23f2ce46026fdfa223f"),
    "name": "Mailgun",
    "displayName": "Lorem",
    "records": [
        {
            "type": "CNAME",
            "key": "em10.[DOMAIN]"
        }
    ],
    "apiSchema": [
        {
            "name": "API Key",
            "type": "text",
            "key": "apiKey"
        }
    ],
    "smtpSchema": [],
    "supports": [
        "API"
    ],
    "user": ObjectId("9daae85ad6dd048fc87ebeec"),
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0)
}
```


2.1.2.5.7 emailproviders Target Script

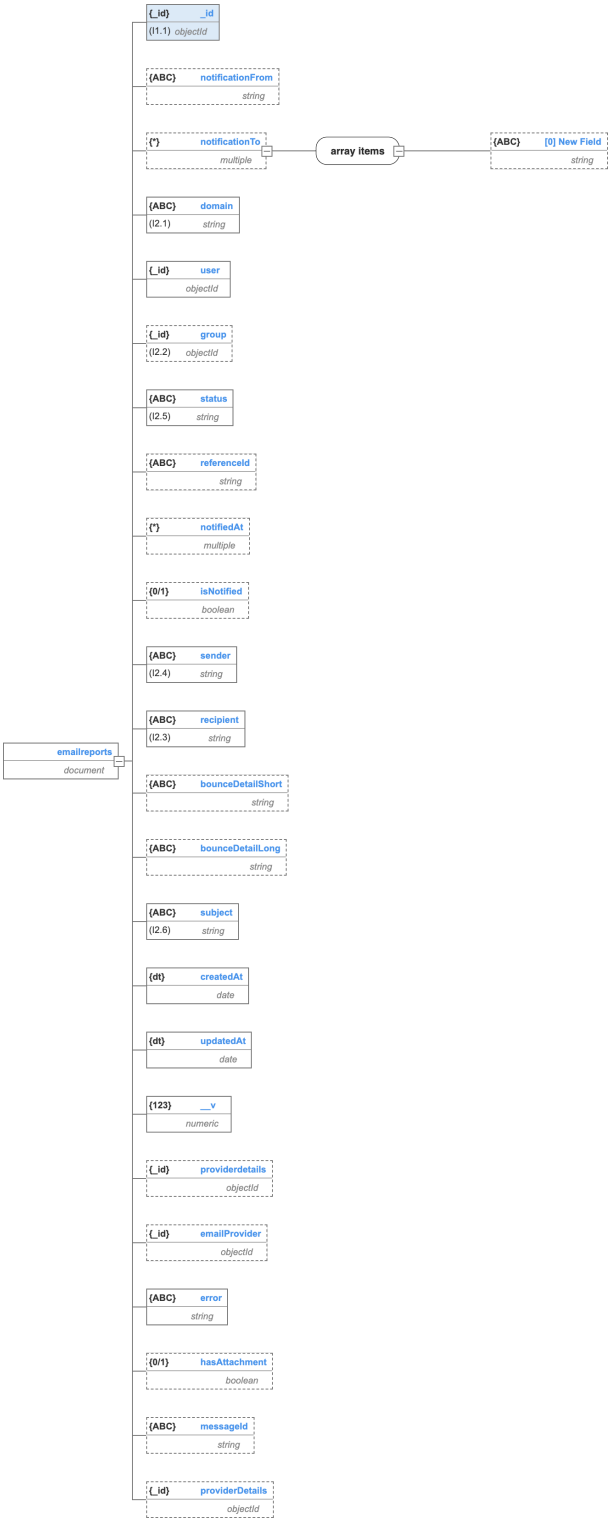
```
use nse-beta;

db.createCollection("emailproviders", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "emailproviders",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "name": {
               "bsonType": "string"
            },
            "displayName": {
               "bsonType": "string"
            },
            "records": {
               "bsonType": "array",
               "additionalItems": true,
               "items": {
                  "bsonType": "object",
                  "properties": {
                     "type": {
                        "bsonType": "string"
                     },
                     "key": {
                        "bsonType": "string"
                     }
                  },
                  "additionalProperties": true,
                  "required": [
                     "type",
                     "key"
                  ]
               }
            },
            "apiSchema": {
               "bsonType": "array",
               "additionalItems": true,
               "items": {
                  "bsonType": "object",
                  "properties": {
                     "name": {
                        "bsonType": "string"
                     },
                     "type": {
                        "bsonType": "string"
                     },
                     "key": {
                        "bsonType": "string"
                     }
                  },
                  "additionalProperties": true,
                  "required": [
                     "name",
                     "type",
                     "key"
                  ]
```

```
                }
            },
            "smtpSchema": {
                "bsonType": "array",
                "additionalItems": true
            },
            "supports": {
                "bsonType": "array",
                "additionalItems": true,
                "items": {
                    "bsonType": "string"
                }
            },
            "user": {
                "bsonType": "objectId"
            },
            "createdAt": {
                "bsonType": "date"
            },
            "updatedAt": {
                "bsonType": "date"
            },
            "__v": {
                "bsonType": "int"
            }
        },
        "additionalProperties": true,
        "required": [
            "_id",
            "name",
            "displayName",
            "records",
            "apiSchema",
            "smtpSchema",
            "supports",
            "user",
            "createdAt",
            "updatedAt",
            "__v"
        ]
    }
  },
  "validationLevel": "off",
  "validationAction": "warn"
});

db.emailproviders.createIndex({
  "_id": 1
},
{
  "name": "_id_"
});

db.emailproviders.createIndex({
  "displayName": "text",
  "name": "text"
},
{
  "name": "name_text_displayName_text",
  "background": true,
  "weights": {
```

```
        "displayName": 1,
        "name": 1
    },
    "default_language": "english",
    "language_override": "language",
    "textIndexVersion": 3
});
```

2.1.2.6 Collection emailreports

2.1.2.6.1 emailreports Tree Diagram



2.1.2.6.2 emailreports Properties

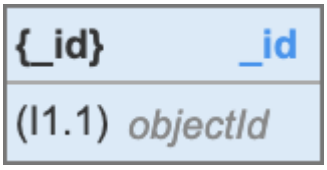
PROPERTY	VALUE
Collection name	emailreports
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.6.3 emailreports Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk		
notificationFrom	string	false			
notificationTo	array,string	false			
items	multipleArray	false			
[0]	string	false			
domain	string	true			
user	objectId	true	fk		
group	objectId	false	fk		
status	string	true			
referenceId	string	false			
notifiedAt	null,date	false			
isNotified	boolean	false			
sender	string	true			
recipient	string	true			
bounceDetailShort	string	false			
bounceDetailLong	string	false			
subject	string	true			
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			
providerdetails	objectId	false	fk		
emailProvider	objectId	false	fk		
error	string	true			
hasAttachment	boolean	false			
messageId	string	false			
providerDetails	objectId	false	fk		

2.1.2.6.3.1 Field _id

2.1.2.6.3.1.1 _id Tree Diagram



2.1.2.6.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.6.3.2 Field notificationFrom

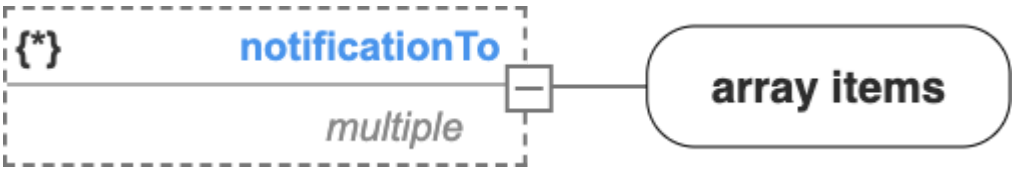
2.1.2.6.3.2.1 notificationFrom Tree Diagram

2.1.2.6.3.2.2 notificationFrom properties

PROPERTY	VALUE
Name	notificationFrom
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	mallikarjun@nexweave.co
Comments	

2.1.2.6.3.3 Field notificationTo

2.1.2.6.3.3.1 notificationTo Tree Diagram



2.1.2.6.3.3.2 notificationTo Hierarchy

Parent field: **emailreports**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
items	multipleArray	false			

2.1.2.6.3.3.3 notificationTo properties

PROPERTY	VALUE
Name	notificationTo
Technical name	
Activated	true
Id	
Field-level encryption	
Type	multiple (array,string)
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	
Name	
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	
Name	
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Dependencies	
Required	
Primary key	false

PROPERTY	VALUE
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	

2.1.2.6.3.4 Field items

2.1.2.6.3.4.1 items Tree Diagram

2.1.2.6.3.4.2 items Hierarchy

Parent field: **notificationTo**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	string	false			

2.1.2.6.3.4.3 items properties

PROPERTY	VALUE
Description	
Comments	

2.1.2.6.3.5 Field [0] New Field

2.1.2.6.3.5.1 [0] New Field Tree Diagram

2.1.2.6.3.5.2 [0] New Field properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Primary key	
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.6.3.6 Field domain

2.1.2.6.3.6.1 domain Tree Diagram

2.1.2.6.3.6.2 domain properties

PROPERTY	VALUE
Name	domain
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	lineagewh.com
Comments	

2.1.2.6.3.7 Field user

2.1.2.6.3.7.1 user Tree Diagram

2.1.2.6.3.7.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to emailreports.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.6.3.8 Field group

2.1.2.6.3.8.1 group Tree Diagram

2.1.2.6.3.8.2 group properties

PROPERTY	VALUE
Name	group
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	providergroups
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk providergroups._id to emailreports.group
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.6.3.9 Field status

2.1.2.6.3.9.1 status Tree Diagram

2.1.2.6.3.9.2 status properties

PROPERTY	VALUE
Name	status
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	FAILED
Comments	

2.1.2.6.3.10 Field referenceId

2.1.2.6.3.10.1 referenceId Tree Diagram

2.1.2.6.3.10.2 referenceId properties

PROPERTY	VALUE
Name	referenceId
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	dac7c13d2d864f15a8c241e228d2a8ee
Comments	

2.1.2.6.3.11 Field notifiedAt

2.1.2.6.3.11.1 notifiedAt Tree Diagram

2.1.2.6.3.11.2 notifiedAt properties

PROPERTY	VALUE
Name	notifiedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	multiple (null,date)
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	
Name	
Technical name	
Activated	true
Id	
Field-level encryption	
Type	null
Description	
Dependencies	
Required	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	
Name	
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	
Primary key	false

PROPERTY	VALUE
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	

2.1.2.6.3.12 Field isNotified

2.1.2.6.3.12.1 isNotified Tree Diagram

2.1.2.6.3.12.2 isNotified properties

PROPERTY	VALUE
Name	isNotified
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.6.3.13 Field sender

2.1.2.6.3.13.1 sender Tree Diagram

2.1.2.6.3.13.2 sender properties

PROPERTY	VALUE
Name	sender
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	noreply@lineagewh.com
Comments	

2.1.2.6.3.14 Field recipient

2.1.2.6.3.14.1 recipient Tree Diagram

2.1.2.6.3.14.2 recipient properties

PROPERTY	VALUE
Name	recipient
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	inbound-reciept@foodimportgroup.com
Comments	

2.1.2.6.3.15 Field bounceDetailShort

2.1.2.6.3.15.1 bounceDetailShort Tree Diagram

2.1.2.6.3.15.2 bounceDetailShort properties

PROPERTY	VALUE
Name	bounceDetailShort
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.6.3.16 Field bounceDetailLong

2.1.2.6.3.16.1 bounceDetailLong Tree Diagram

2.1.2.6.3.16.2 bounceDetailLong properties

PROPERTY	VALUE
Name	bounceDetailLong
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.6.3.17 Field subject

2.1.2.6.3.17.1 subject Tree Diagram

2.1.2.6.3.17.2 subject properties

PROPERTY	VALUE
Name	subject
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.6.3.18 Field createdAt

2.1.2.6.3.18.1 createdAt Tree Diagram

2.1.2.6.3.18.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.6.3.19 Field updatedAt

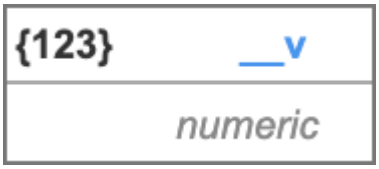
2.1.2.6.3.19.1 updatedAt Tree Diagram

2.1.2.6.3.19.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.6.3.20 Field __v

2.1.2.6.3.20.1 __v Tree Diagram



2.1.2.6.3.20.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.6.3.21 Field providerdetails

2.1.2.6.3.21.1 providerdetails Tree Diagram

2.1.2.6.3.21.2 providerdetails properties

PROPERTY	VALUE
Name	providerdetails
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	providerdetails
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk providerdetails._id to emailreports.providerdetails
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.6.3.22 Field emailProvider

2.1.2.6.3.22.1 emailProvider Tree Diagram

2.1.2.6.3.22.2 emailProvider properties

PROPERTY	VALUE
Name	emailProvider
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	emailproviders
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk emailproviders._id to emailreports.emailProvider
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.6.3.23 Field error

2.1.2.6.3.23.1 error Tree Diagram

2.1.2.6.3.23.2 error properties

PROPERTY	VALUE
Name	error
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.6.3.24 Field hasAttachment

2.1.2.6.3.24.1 hasAttachment Tree Diagram

2.1.2.6.3.24.2 hasAttachment properties

PROPERTY	VALUE
Name	hasAttachment
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.6.3.25 Field messageId

2.1.2.6.3.25.1 messageId Tree Diagram

2.1.2.6.3.25.2 messageId properties

PROPERTY	VALUE
Name	messageId
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.6.3.26 Field providerDetails

2.1.2.6.3.26.1 providerDetails Tree Diagram

2.1.2.6.3.26.2 providerDetails properties

PROPERTY	VALUE
Name	providerDetails
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	providerdetails
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk providerdetails._id to emailreports.providerDetails
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.6.4 emailreports Indexes

PROPERTY	_ID_	SENDER_TEXT_RECIPIENT_TEXT_DOMAIN_TEXT_STATUS_TEXT_SUBJECT_TEXT_GROUP_TEXT
Name	_id_	sender_text_recipient_text_domain_text_status_text_subject_text_group_text
Activated		
Key	_id('ascending')	domain('text'), group('text'), recipient('text'), sender('text'), status('text'), subject('text')
Wildcard index		
Hashed		
Unique		
Drop duplicates		
Sparse		
Background indexing		true
Partial filter exp		
Expire after (seconds)		
Storage engine		
Comments		

2.1.2.6.5 emailreports JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "emailreports",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "notificationFrom": {
            "type": "string"
        },
        "notificationTo": {
            "type": [
                "array",
                "string"
            ],
            "items": {
                "type": "string"
            },
            "additionalItems": true
        },
        "domain": {
            "type": "string"
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "group": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "status": {
            "type": "string"
        },
        "referenceId": {
            "type": "string"
        },
        "notifiedAt": {
            "type": [
                "null",
                "string"
            ],
            "format": "date-time"
        },
        "isNotified": {
            "type": "boolean"
        },
        "sender": {
            "type": "string"
        },
        "recipient": {
            "type": "string"
        },
        "bounceDetailShort": {
            "type": "string"
        },
        "bounceDetailLong": {
            "type": "string"
```

```
        },
        "subject": {
            "type": "string"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        },
        "providerdetails": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "emailProvider": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "error": {
            "type": "string"
        },
        "hasAttachment": {
            "type": "boolean"
        },
        "messageId": {
            "type": "string"
        },
        "providerDetails": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "domain",
        "user",
        "status",
        "sender",
        "recipient",
        "subject",
        "createdAt",
        "updatedAt",
        "__v",
        "error"
    ]
}
```


2.1.2.6.6 emailreports JSON data

```
{
    "_id": ObjectId("d4ea2f3c56abd2e4ecadef3d"),
    "notificationFrom": "mallikarjun@nexweave.co",
    "notificationTo": [
        "Lorem"
    ],
    "domain": "lineagewh.com",
    "user": ObjectId("6ff918a89e30b2bce340de8b"),
    "group": ObjectId("4ecb2cbbb99d7aa0dc7f5b2e"),
    "status": "FAILED",
    "referenceId": "dac7c13d2d864f15a8c241e228d2a8ee",
    "notifiedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "isNotified": true,
    "sender": "noreply@lineagewh.com",
    "recipient": "inbound-reciept@foodimportgroup.com",
    "bounceDetailShort": "Lorem",
    "bounceDetailLong": "Lorem",
    "subject": "Lorem",
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0),
    "providerdetails": ObjectId("ca3297db45afeaf9bc5e6ce4"),
    "emailProvider": ObjectId("eaae3ba0191f0bf4c735f3ca"),
    "error": "Lorem",
    "hasAttachment": false,
    "messageId": "Lorem",
    "providerDetails": ObjectId("2ceb7c2a9af103af3da49fda")
}
```


2.1.2.6.7 emailreports Target Script

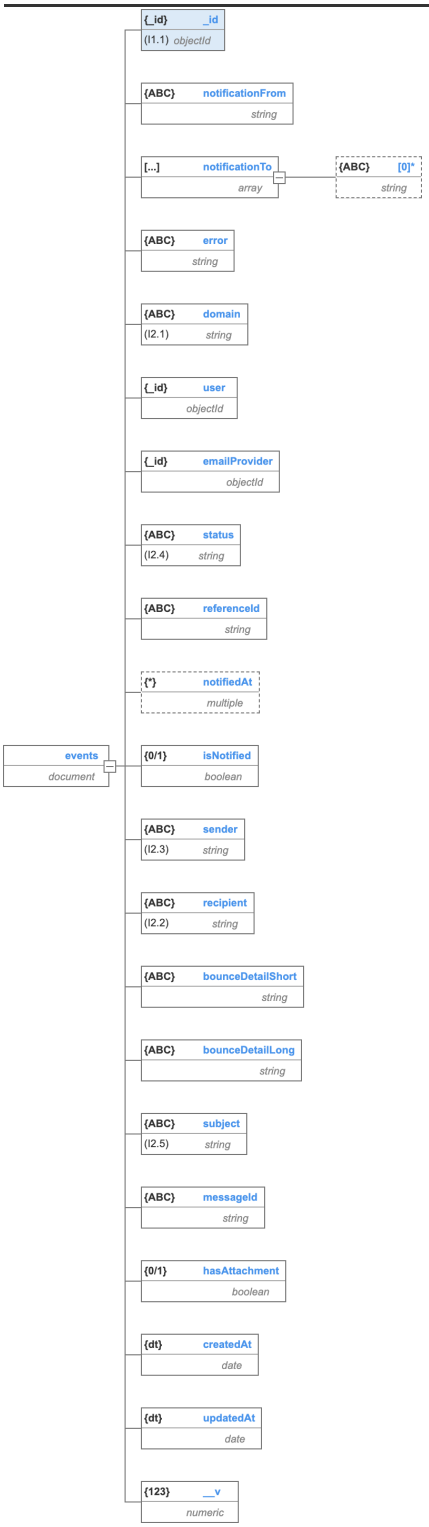
```
use nse-beta;

db.createCollection("emailreports", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "emailreports",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "notificationFrom": {
               "bsonType": "string"
            },
            "notificationTo": {
               "bsonType": [
                  "array",
                  "string"
               ],
               "items": {
                  "bsonType": "string"
               },
               "additionalItems": true
            },
            "domain": {
               "bsonType": "string"
            },
            "user": {
               "bsonType": "objectId"
            },
            "group": {
               "bsonType": "objectId"
            },
            "status": {
               "bsonType": "string"
            },
            "referenceId": {
               "bsonType": "string"
            },
            "notifiedAt": {
               "bsonType": [
                  "null",
                  "date"
               ]
            },
            "isNotified": {
               "bsonType": "bool"
            },
            "sender": {
               "bsonType": "string"
            },
            "recipient": {
               "bsonType": "string"
            },
            "bounceDetailShort": {
               "bsonType": "string"
            },
            "bounceDetailLong": {
               "bsonType": "string"
```

```
            },
            "subject": {
               "bsonType": "string"
            },
            "createdAt": {
               "bsonType": "date"
            },
            "updatedAt": {
               "bsonType": "date"
            },
            "__v": {
               "bsonType": "int"
            },
            "providerdetails": {
               "bsonType": "objectId"
            },
            "emailProvider": {
               "bsonType": "objectId"
            },
            "error": {
               "bsonType": "string"
            },
            "hasAttachment": {
               "bsonType": "bool"
            },
            "messageId": {
               "bsonType": "string"
            },
            "providerDetails": {
               "bsonType": "objectId"
            }
         },
         "additionalProperties": true,
         "required": [
            "_id",
            "domain",
            "user",
            "status",
            "sender",
            "recipient",
            "subject",
            "createdAt",
            "updatedAt",
            "__v",
            "error"
         ]
      }
   },
   "validationLevel": "off",
   "validationAction": "warn"
});

db.emailreports.createIndex({
   "_id": 1
},
{
   "name": "_id_"
});

db.emailreports.createIndex({
   "domain": "text",
```

```
    "group": "text",
    "recipient": "text",
    "sender": "text",
    "status": "text",
    "subject": "text"
},
{
    "name": "sender_text_recipient_text_domain_text_status_text_subject_text_group_text",
    "background": true,
    "weights": {
        "domain": 1,
        "group": 1,
        "recipient": 1,
        "sender": 1,
        "status": 1,
        "subject": 1
    },
    "default_language": "english",
    "language_override": "language",
    "textIndexVersion": 3
});
```

2.1.2.7 Collection events

2.1.2.7.1 events Tree Diagram



2.1.2.7.2 events Properties

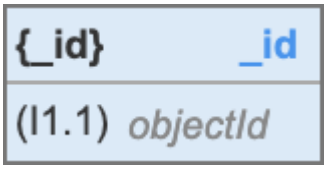
PROPERTY	VALUE
Collection name	events
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.7.3 events Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk		
notificationFrom	string	true			
notificationTo	array	true			
[0]	string	false			
error	string	true			
domain	string	true			
user	objectId	true	fk		
emailProvider	objectId	true	fk		
status	string	true			
referenceId	string	true			
notifiedAt	null,date	false			
isNotified	boolean	true			
sender	string	true			
recipient	string	true			
bounceDetailShort	string	true			
bounceDetailLong	string	true			
subject	string	true			
messageId	string	true			
hasAttachment	boolean	true			
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			

2.1.2.7.3.1 Field _id

2.1.2.7.3.1.1 _id Tree Diagram



2.1.2.7.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.7.3.2 Field notificationFrom

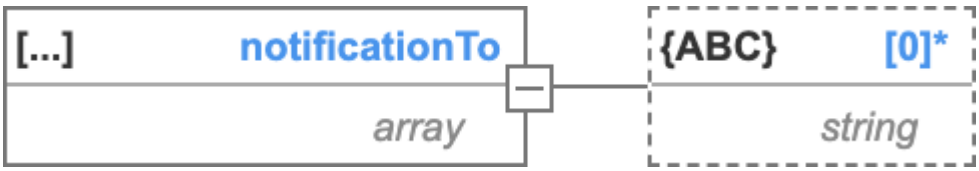
2.1.2.7.3.2.1 notificationFrom Tree Diagram

2.1.2.7.3.2.2 notificationFrom properties

PROPERTY	VALUE
Name	notificationFrom
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	mallikarjun@nexweave.co
Comments	

2.1.2.7.3.3 Field notificationTo

2.1.2.7.3.3.1 notificationTo Tree Diagram



2.1.2.7.3.3.2 notificationTo Hierarchy

Parent field: **events**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	string	false			

2.1.2.7.3.3.3 notificationTo properties

PROPERTY	VALUE
Name	notificationTo
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.7.3.4 Field [0]

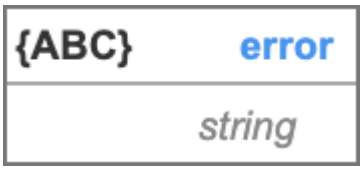
2.1.2.7.3.4.1 [0] Tree Diagram

2.1.2.7.3.4.2 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Primary key	
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.7.3.5 Field error

2.1.2.7.3.5.1 error Tree Diagram



2.1.2.7.3.5.2 error properties

PROPERTY	VALUE
Name	error
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.7.3.6 Field domain

2.1.2.7.3.6.1 domain Tree Diagram

2.1.2.7.3.6.2 domain properties

PROPERTY	VALUE
Name	domain
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	lineagewh.com
Comments	

2.1.2.7.3.7 Field user

2.1.2.7.3.7.1 user Tree Diagram

2.1.2.7.3.7.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to events.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.7.3.8 Field emailProvider

2.1.2.7.3.8.1 emailProvider Tree Diagram

2.1.2.7.3.8.2 emailProvider properties

PROPERTY	VALUE
Name	emailProvider
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	emailproviders
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk emailproviders._id to events.emailProvider
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.7.3.9 Field status

2.1.2.7.3.9.1 status Tree Diagram

2.1.2.7.3.9.2 status properties

PROPERTY	VALUE
Name	status
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	FAILED
Comments	

2.1.2.7.3.10 Field referenceId

2.1.2.7.3.10.1 referenceId Tree Diagram

2.1.2.7.3.10.2 referenceId properties

PROPERTY	VALUE
Name	referenceId
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	bc39dfb5266c4fa986fe4edbb81a60fc
Comments	

2.1.2.7.3.11 Field notifiedAt

2.1.2.7.3.11.1 notifiedAt Tree Diagram

2.1.2.7.3.11.2 notifiedAt properties

PROPERTY	VALUE
Name	notifiedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	multiple (null,date)
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	
Name	
Technical name	
Activated	true
Id	
Field-level encryption	
Type	null
Description	
Dependencies	
Required	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	
Name	
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	
Primary key	false

PROPERTY	VALUE
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Comments	

2.1.2.7.3.12 Field isNotified

2.1.2.7.3.12.1 isNotified Tree Diagram

2.1.2.7.3.12.2 isNotified properties

PROPERTY	VALUE
Name	isNotified
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.7.3.13 Field sender

2.1.2.7.3.13.1 sender Tree Diagram

2.1.2.7.3.13.2 sender properties

PROPERTY	VALUE
Name	sender
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	noreply@lineagewh.com
Comments	

2.1.2.7.3.14 Field recipient

2.1.2.7.3.14.1 recipient Tree Diagram

2.1.2.7.3.14.2 recipient properties

PROPERTY	VALUE
Name	recipient
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	cgarrido@mcifoods.com
Comments	

2.1.2.7.3.15 Field bounceDetailShort

2.1.2.7.3.15.1 bounceDetailShort Tree Diagram

2.1.2.7.3.15.2 bounceDetailShort properties

PROPERTY	VALUE
Name	bounceDetailShort
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.7.3.16 Field bounceDetailLong

2.1.2.7.3.16.1 bounceDetailLong Tree Diagram

2.1.2.7.3.16.2 bounceDetailLong properties

PROPERTY	VALUE
Name	bounceDetailLong
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.7.3.17 Field subject

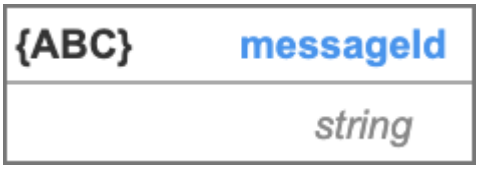
2.1.2.7.3.17.1 subject Tree Diagram

2.1.2.7.3.17.2 subject properties

PROPERTY	VALUE
Name	subject
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.7.3.18 Field messageId

2.1.2.7.3.18.1 messageId Tree Diagram



2.1.2.7.3.18.2 messageId properties

PROPERTY	VALUE
Name	messageId
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.7.3.19 Field hasAttachment

2.1.2.7.3.19.1 hasAttachment Tree Diagram

2.1.2.7.3.19.2 hasAttachment properties

PROPERTY	VALUE
Name	hasAttachment
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.7.3.20 Field createdAt

2.1.2.7.3.20.1 createdAt Tree Diagram

2.1.2.7.3.20.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.7.3.21 Field updatedAt

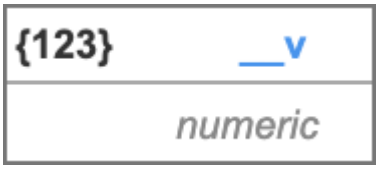
2.1.2.7.3.21.1 updatedAt Tree Diagram

2.1.2.7.3.21.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.7.3.22 Field __v

2.1.2.7.3.22.1 __v Tree Diagram



2.1.2.7.3.22.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.7.4 events Indexes

PROPERTY	_ID_	SENDER_TEXT_RECIPIENT_TEXT_DOMAIN_TEXT_STATUS_TEXT_SUBJECT_TEXT_GROUP_TEXT
Name	_id_	sender_text_recipient_text_domain_text_status_text_subject_text_group_text
Activated		
Key	_id('ascending')	domain('text'), recipient('text'), sender('text'), status('text'), subject('text')
Wildcard index		
Hashed		
Unique		
Drop duplicates		
Sparse		
Background indexing		true
Partial filter exp		
Expire after (seconds)		
Storage engine		
Comments		

2.1.2.7.5 events JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "events",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "notificationFrom": {
            "type": "string"
        },
        "notificationTo": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "string"
            }
        },
        "error": {
            "type": "string"
        },
        "domain": {
            "type": "string"
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "emailProvider": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "status": {
            "type": "string"
        },
        "referenceId": {
            "type": "string"
        },
        "notifiedAt": {
            "type": [
                "null",
                "string"
            ],
            "format": "date-time"
        },
        "isNotified": {
            "type": "boolean"
        },
        "sender": {
            "type": "string"
        },
        "recipient": {
            "type": "string"
        },
        "bounceDetailShort": {
            "type": "string"
        },
        "bounceDetailLong": {
            "type": "string"
```

```
        },
        "subject": {
            "type": "string"
        },
        "messageId": {
            "type": "string"
        },
        "hasAttachment": {
            "type": "boolean"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "notificationFrom",
        "notificationTo",
        "error",
        "domain",
        "user",
        "emailProvider",
        "status",
        "referenceId",
        "isNotified",
        "sender",
        "recipient",
        "bounceDetailShort",
        "bounceDetailLong",
        "subject",
        "messageId",
        "hasAttachment",
        "createdAt",
        "updatedAt",
        "__v"
    ]
}
```


2.1.2.7.6 events JSON data

```
{
    "_id": ObjectId("ddf71cdca1a40b0de3ba8727"),
    "notificationFrom": "mallikarjun@nexweave.co",
    "notificationTo": [
        "Lorem"
    ],
    "error": "Lorem",
    "domain": "lineagewh.com",
    "user": ObjectId("bada9ce039da3a1aad6e23ea"),
    "emailProvider": ObjectId("770edea87b95f93b3727efac"),
    "status": "FAILED",
    "referenceId": "bc39dfb5266c4fa986fe4edbb81a60fc",
    "notifiedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "isNotified": true,
    "sender": "noreply@lineagewh.com",
    "recipient": "cgarrido@mcifoods.com",
    "bounceDetailShort": "Lorem",
    "bounceDetailLong": "Lorem",
    "subject": "Lorem",
    "messageId": "Lorem",
    "hasAttachment": false,
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0)
}
```


2.1.2.7.7 events Target Script

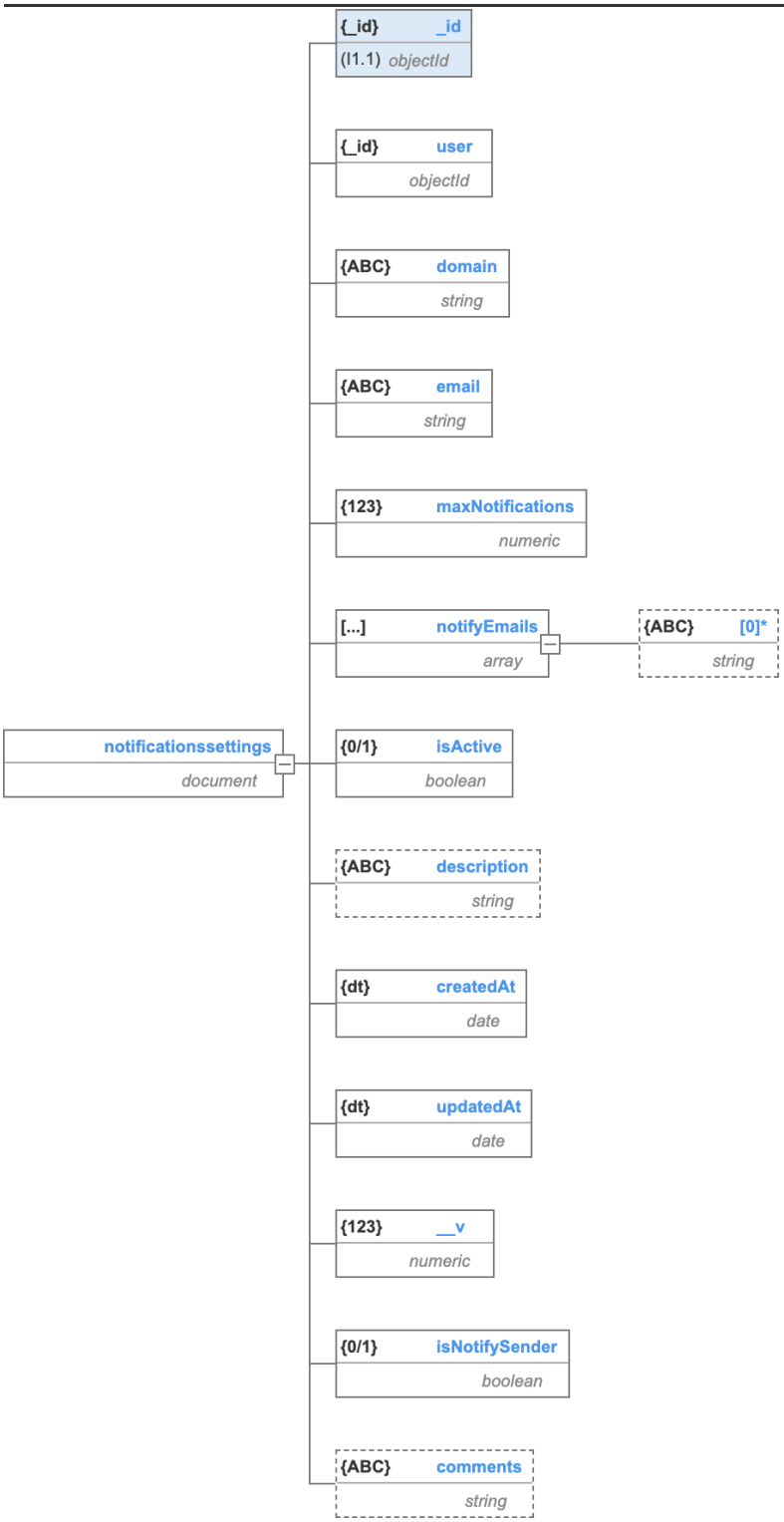
```
use nse-beta;

db.createCollection("events", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "events",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "notificationFrom": {
               "bsonType": "string"
            },
            "notificationTo": {
               "bsonType": "array",
               "additionalItems": true,
               "items": {
                  "bsonType": "string"
               }
            },
            "error": {
               "bsonType": "string"
            },
            "domain": {
               "bsonType": "string"
            },
            "user": {
               "bsonType": "objectId"
            },
            "emailProvider": {
               "bsonType": "objectId"
            },
            "status": {
               "bsonType": "string"
            },
            "referenceId": {
               "bsonType": "string"
            },
            "notifiedAt": {
               "bsonType": [
                  "null",
                  "date"
               ]
            },
            "isNotified": {
               "bsonType": "bool"
            },
            "sender": {
               "bsonType": "string"
            },
            "recipient": {
               "bsonType": "string"
            },
            "bounceDetailShort": {
               "bsonType": "string"
            },
            "bounceDetailLong": {
               "bsonType": "string"
```

```
            },
            "subject": {
               "bsonType": "string"
            },
            "messageId": {
               "bsonType": "string"
            },
            "hasAttachment": {
               "bsonType": "bool"
            },
            "createdAt": {
               "bsonType": "date"
            },
            "updatedAt": {
               "bsonType": "date"
            },
            "__v": {
               "bsonType": "int"
            }
         },
         "additionalProperties": true,
         "required": [
            "_id",
            "notificationFrom",
            "notificationTo",
            "error",
            "domain",
            "user",
            "emailProvider",
            "status",
            "referenceId",
            "isNotified",
            "sender",
            "recipient",
            "bounceDetailShort",
            "bounceDetailLong",
            "subject",
            "messageId",
            "hasAttachment",
            "createdAt",
            "updatedAt",
            "__v"
         ]
      }
   },
   "validationLevel": "off",
   "validationAction": "warn"
});

db.events.createIndex({
   "_id": 1
},
{
   "name": "_id_"
});

db.events.createIndex({
   "domain": "text",
   "recipient": "text",
   "sender": "text",
   "status": "text",
```

```
    "subject": "text"
},
{
    "name": "sender_text_recipient_text_domain_text_status_text_subject_text_group_text",
    "background": true,
    "weights": {
        "domain": 1,
        "group": 1,
        "recipient": 1,
        "sender": 1,
        "status": 1,
        "subject": 1
    },
    "default_language": "english",
    "language_override": "language",
    "textIndexVersion": 3
});
```

2.1.2.8 Collection notificationssettings

2.1.2.8.1 notificationssettings Tree Diagram



2.1.2.8.2 notificationssettings Properties

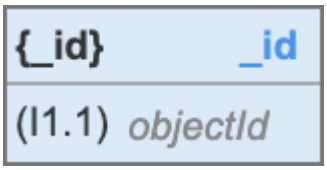
PROPERTY	VALUE
Collection name	notificationssettings
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.8.3 notificationssettings Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk		
user	objectId	true	fk		
domain	string	true			
email	string	true			
maxNotifications	integer32	true			
notifyEmails	array	true			
[0]	string	false			
isActive	boolean	true			
description	string	false			
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			
isNotifySender	boolean	true			
comments	string	false			

2.1.2.8.3.1 Field _id

2.1.2.8.3.1.1 _id Tree Diagram



2.1.2.8.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.8.3.2 Field user

2.1.2.8.3.2.1 user Tree Diagram

2.1.2.8.3.2.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to notificationssettings.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.8.3.3 Field domain

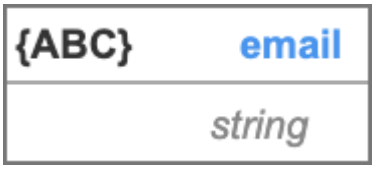
2.1.2.8.3.3.1 domain Tree Diagram

2.1.2.8.3.3.2 domain properties

PROPERTY	VALUE
Name	domain
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	lineagewh.com
Comments	

2.1.2.8.3.4 Field email

2.1.2.8.3.4.1 email Tree Diagram



2.1.2.8.3.4.2 email properties

PROPERTY	VALUE
Name	email
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.8.3.5 Field maxNotifications

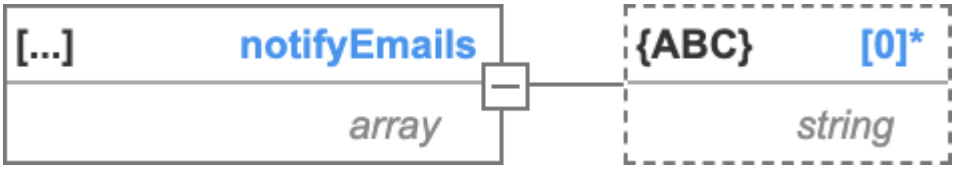
2.1.2.8.3.5.1 maxNotifications Tree Diagram

2.1.2.8.3.5.2 maxNotifications properties

PROPERTY	VALUE
Name	maxNotifications
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	1000
Comments	

2.1.2.8.3.6 Field notifyEmails

2.1.2.8.3.6.1 notifyEmails Tree Diagram



2.1.2.8.3.6.2 notifyEmails Hierarchy

Parent field: **notificationssettings**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	string	false			

2.1.2.8.3.6.3 notifyEmails properties

PROPERTY	VALUE
Name	notifyEmails
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.8.3.7 Field [0]

2.1.2.8.3.7.1 [0] Tree Diagram

2.1.2.8.3.7.2 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Primary key	
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	surajkadam98.dev@gmail.com
Comments	

2.1.2.8.3.8 Field isActive

2.1.2.8.3.8.1 isActive Tree Diagram

2.1.2.8.3.8.2 isActive properties

PROPERTY	VALUE
Name	isActive
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.8.3.9 Field description

2.1.2.8.3.9.1 description Tree Diagram

2.1.2.8.3.9.2 description properties

PROPERTY	VALUE
Name	description
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.8.3.10 Field createdAt

2.1.2.8.3.10.1 createdAt Tree Diagram

2.1.2.8.3.10.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.8.3.11 Field updatedAt

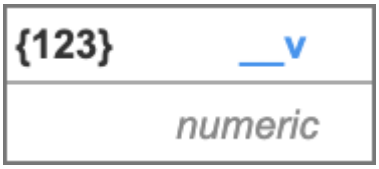
2.1.2.8.3.11.1 updatedAt Tree Diagram

2.1.2.8.3.11.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.8.3.12 Field __v

2.1.2.8.3.12.1 __v Tree Diagram



2.1.2.8.3.12.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.8.3.13 Field isNotifySender

2.1.2.8.3.13.1 isNotifySender Tree Diagram

2.1.2.8.3.13.2 isNotifySender properties

PROPERTY	VALUE
Name	isNotifySender
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.8.3.14 Field comments

2.1.2.8.3.14.1 comments Tree Diagram

2.1.2.8.3.14.2 comments properties

PROPERTY	VALUE
Name	comments
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.8.4 notificationssettings Indexes

PROPERTY	_ID_
Name	_id_
Activated	
Key	_id('ascending')
Wildcard index	
Hashed	
Unique	
Drop duplicates	
Sparse	
Background indexing	
Partial filter exp	
Expire after (seconds)	
Storage engine	
Comments	

2.1.2.8.5 notificationssettings JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "notificationssettings",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "domain": {
            "type": "string"
        },
        "email": {
            "type": "string"
        },
        "maxNotifications": {
            "type": "integer"
        },
        "notifyEmails": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "string"
            }
        },
        "isActive": {
            "type": "boolean"
        },
        "description": {
            "type": "string"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        },
        "isNotifySender": {
            "type": "boolean"
        },
        "comments": {
            "type": "string"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "user",
        "domain",
        "email",
        "maxNotifications",
```

```
        "notifyEmails",
        "isActive",
        "createdAt",
        "updatedAt",
        "__v",
        "isNotifySender"
    ]
}
```

2.1.2.8.6 notificationssettings JSON data

```
{
    "_id": ObjectId("30eaa2fb41e9c08523ebe8df"),
    "user": ObjectId("adbee1b5a101dc2cffe13876"),
    "domain": "lineagewh.com",
    "email": "Lorem",
    "maxNotifications": Int32(1000),
    "notifyEmails": [
        "surajkadam98.dev@gmail.com"
    ],
    "isActive": true,
    "description": "Lorem",
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0),
    "isNotifySender": false,
    "comments": "Lorem"
}
```

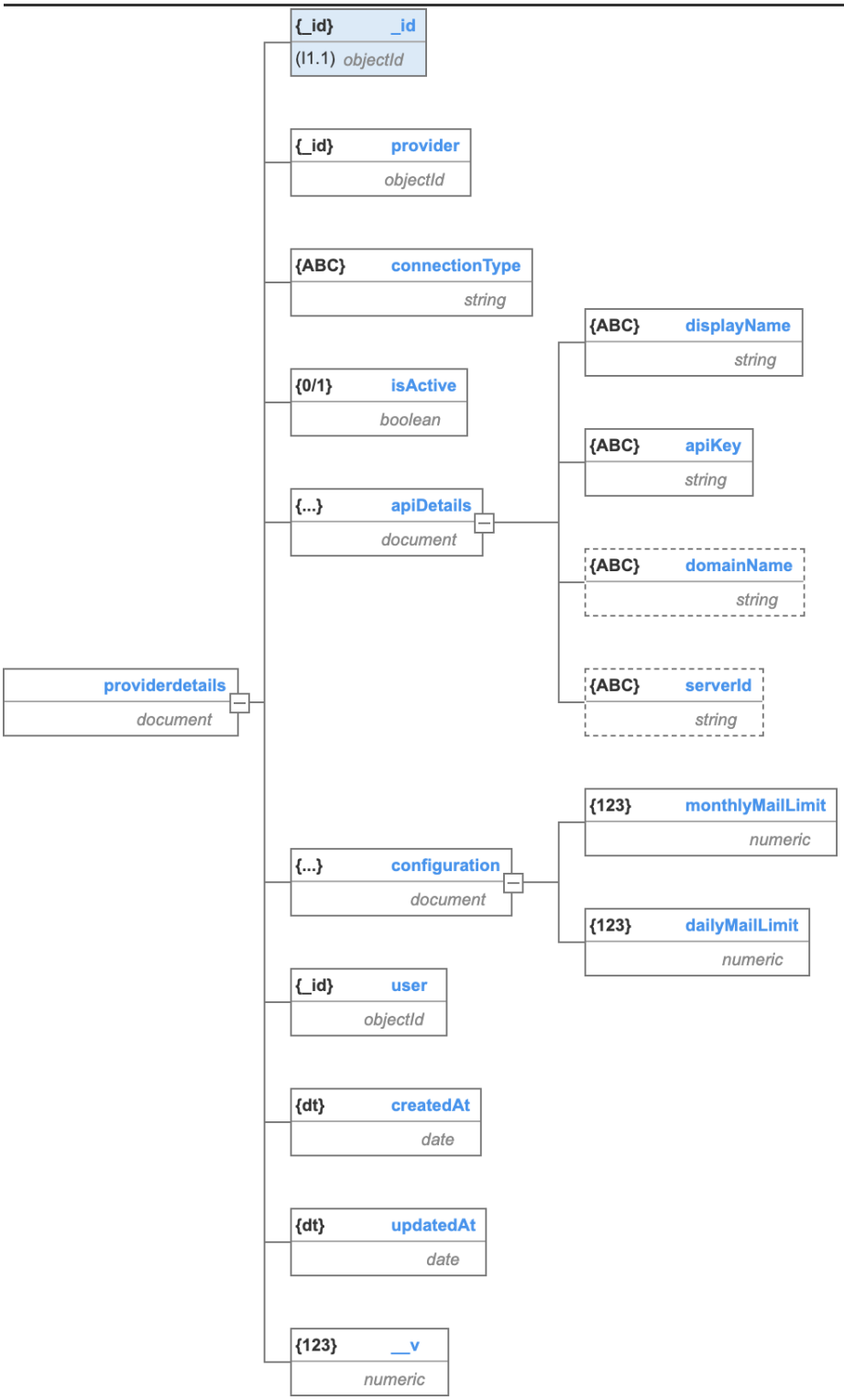
2.1.2.8.7 notificationssettings Target Script

```
use nse-beta;

db.createCollection("notificationssettings", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "notificationssettings",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "user": {
               "bsonType": "objectId"
            },
            "domain": {
               "bsonType": "string"
            },
            "email": {
               "bsonType": "string"
            },
            "maxNotifications": {
               "bsonType": "int"
            },
            "notifyEmails": {
               "bsonType": "array",
               "additionalItems": true,
               "items": {
                  "bsonType": "string"
               }
            },
            "isActive": {
               "bsonType": "bool"
            },
            "description": {
               "bsonType": "string"
            },
            "createdAt": {
               "bsonType": "date"
            },
            "updatedAt": {
               "bsonType": "date"
            },
            "__v": {
               "bsonType": "int"
            },
            "isNotifySender": {
               "bsonType": "bool"
            },
            "comments": {
               "bsonType": "string"
            }
         },
         "additionalProperties": true,
         "required": [
            "_id",
            "user",
            "domain",
            "email",
            "maxNotifications",
```

```
                "notifyEmails",
                "isActive",
                "createdAt",
                "updatedAt",
                "__v",
                "isNotifySender"
            ]
        }
    },
    "validationLevel": "off",
    "validationAction": "warn"
});

db.notificationssettings.createIndex({
    "_id": 1
},
{
    "name": "_id_"
});
```

2.1.2.9 Collection providerdetails

2.1.2.9.1 providerdetails Tree Diagram



2.1.2.9.2 providerdetails Properties

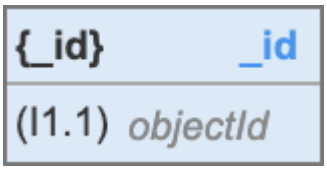
PROPERTY	VALUE
Collection name	providerdetails
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.9.3 providerdetails Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk, dk		
provider	objectId	true	fk		
connectionType	string	true			
isActive	boolean	true			
apiDetails	document	true			
displayName	string	true			
apiKey	string	true			
domainName	string	false			
serverId	string	false			
configuration	document	true			
monthlyMailLimit	integer32	true			
dailyMailLimit	integer32	true			
user	objectId	true	fk		
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			

2.1.2.9.3.1 Field _id

2.1.2.9.3.1.1 _id Tree Diagram



2.1.2.9.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.9.3.2 Field provider

2.1.2.9.3.2.1 provider Tree Diagram

2.1.2.9.3.2.2 provider properties

PROPERTY	VALUE
Name	provider
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	emailproviders
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk emailproviders._id to providerdetails.provider
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.9.3.3 Field connectionType

2.1.2.9.3.3.1 connectionType Tree Diagram

2.1.2.9.3.3.2 connectionType properties

PROPERTY	VALUE
Name	connectionType
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	API
Comments	

2.1.2.9.3.4 Field isActive

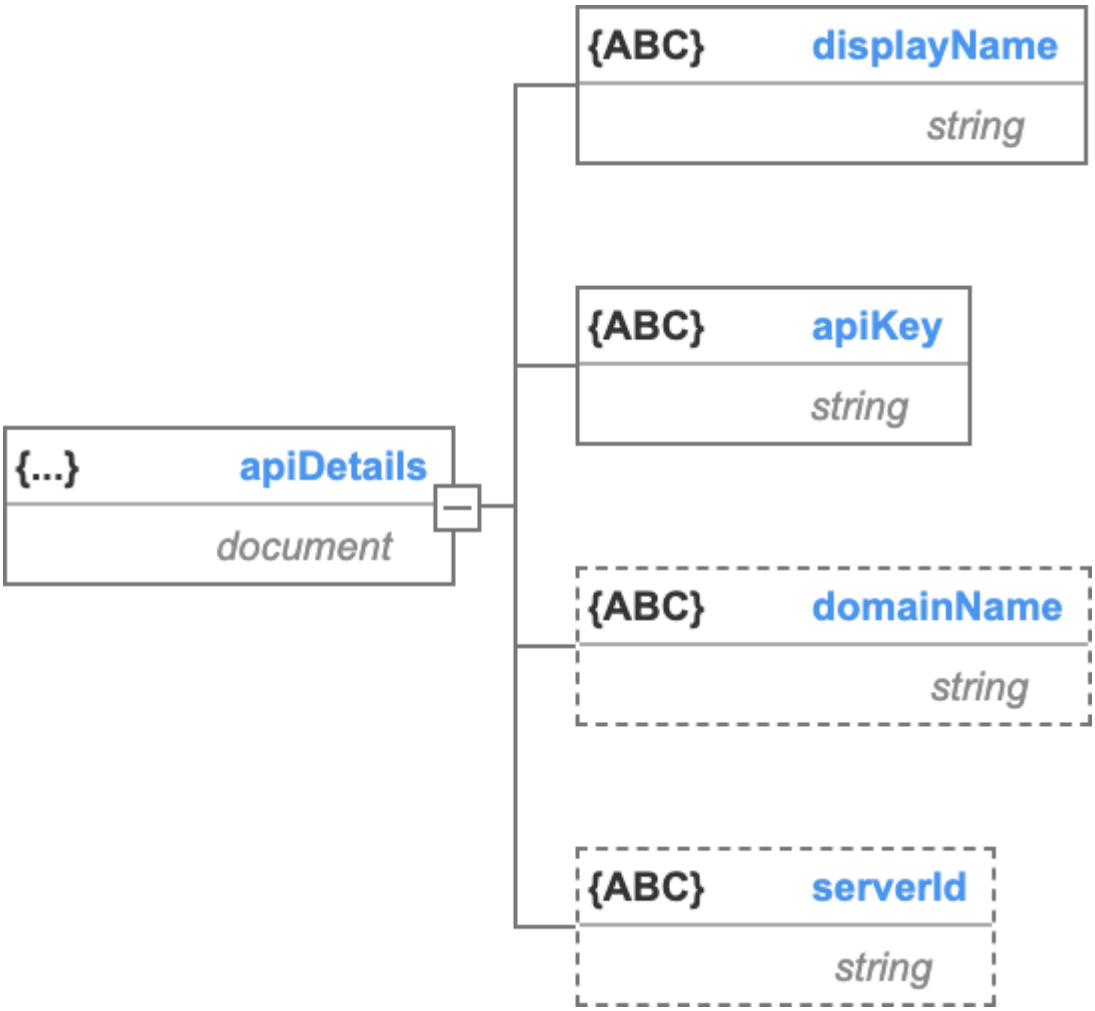
2.1.2.9.3.4.1 isActive Tree Diagram

2.1.2.9.3.4.2 isActive properties

PROPERTY	VALUE
Name	isActive
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.9.3.5 Field apiDetails

2.1.2.9.3.5.1 apiDetails Tree Diagram



2.1.2.9.3.5.2 apiDetails Hierarchy

Parent field: **providerdetails**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
displayName	string	true			
apiKey	string	true			
domainName	string	false			
serverId	string	false			

2.1.2.9.3.5.3 apiDetails properties

PROPERTY	VALUE
Name	apiDetails
Technical name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.9.3.6 Field displayName

2.1.2.9.3.6.1 displayName Tree Diagram

2.1.2.9.3.6.2 displayName properties

PROPERTY	VALUE
Name	displayName
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	Sendinblue
Comments	

2.1.2.9.3.7 Field apiKey

2.1.2.9.3.7.1 apiKey Tree Diagram

2.1.2.9.3.7.2 apiKey properties

PROPERTY	VALUE
Name	apiKey
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	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
Comments	

2.1.2.9.3.8 Field domainName

2.1.2.9.3.8.1 domainName Tree Diagram

2.1.2.9.3.8.2 domainName properties

PROPERTY	VALUE
Name	domainName
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	sandbox272d9473b7db4eb88c923824f923961e.mailgun.org
Comments	

2.1.2.9.3.9 Field serverId

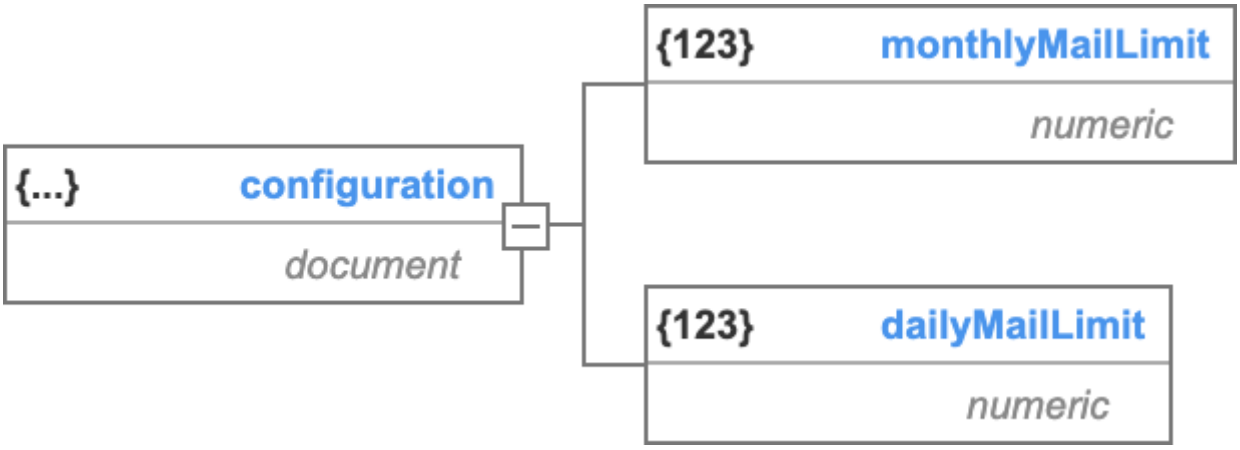
2.1.2.9.3.9.1 serverId Tree Diagram

2.1.2.9.3.9.2 serverId properties

PROPERTY	VALUE
Name	serverId
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	44744
Comments	

2.1.2.9.3.10 Field configuration

2.1.2.9.3.10.1 configuration Tree Diagram



2.1.2.9.3.10.2 configuration Hierarchy

Parent field: **providerdetails**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
monthlyMailLimit	numeric	true			
dailyMailLimit	numeric	true			

2.1.2.9.3.10.3 configuration properties

PROPERTY	VALUE
Name	configuration
Technical name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.9.3.11 Field monthlyMailLimit

2.1.2.9.3.11.1 monthlyMailLimit Tree Diagram

2.1.2.9.3.11.2 monthlyMailLimit properties

PROPERTY	VALUE
Name	monthlyMailLimit
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	500
Comments	

2.1.2.9.3.12 Field dailyMailLimit

2.1.2.9.3.12.1 dailyMailLimit Tree Diagram

2.1.2.9.3.12.2 dailyMailLimit properties

PROPERTY	VALUE
Name	dailyMailLimit
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	500
Comments	

2.1.2.9.3.13 Field user

2.1.2.9.3.13.1 user Tree Diagram

2.1.2.9.3.13.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to providerdetails.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.9.3.14 Field createdAt

2.1.2.9.3.14.1 createdAt Tree Diagram

2.1.2.9.3.14.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.9.3.15 Field updatedAt

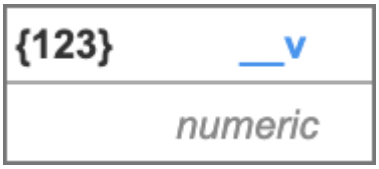
2.1.2.9.3.15.1 updatedAt Tree Diagram

2.1.2.9.3.15.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.9.3.16 Field __v

2.1.2.9.3.16.1 __v Tree Diagram



2.1.2.9.3.16.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.9.4 providerdetails Indexes

PROPERTY	_ID_
Name	_id_
Activated	
Key	_id('ascending')
Wildcard index	
Hashed	
Unique	
Drop duplicates	
Sparse	
Background indexing	
Partial filter exp	
Expire after (seconds)	
Storage engine	
Comments	

2.1.2.9.5 providerdetails JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "providerdetails",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "provider": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "connectionType": {
            "type": "string"
        },
        "isActive": {
            "type": "boolean"
        },
        "apiDetails": {
            "type": "object",
            "properties": {
                "displayName": {
                    "type": "string"
                },
                "apiKey": {
                    "type": "string"
                },
                "domainName": {
                    "type": "string"
                },
                "serverId": {
                    "type": "string"
                }
            },
            "additionalProperties": true,
            "required": [
                "displayName",
                "apiKey"
            ]
        },
        "configuration": {
            "type": "object",
            "properties": {
                "monthlyMailLimit": {
                    "type": "integer"
                },
                "dailyMailLimit": {
                    "type": "integer"
                }
            },
            "additionalProperties": true,
            "required": [
                "monthlyMailLimit",
                "dailyMailLimit"
            ]
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
```

```
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "provider",
        "connectionType",
        "isActive",
        "apiDetails",
        "configuration",
        "user",
        "createdAt",
        "updatedAt",
        "__v"
    ]
}
```

2.1.2.9.6 providerdetails JSON data

```
{
    "_id": ObjectId("735b2546e9bf4a34cffcd5af"),
    "provider": ObjectId("62cad7af78c31ffb2abfa7b3"),
    "connectionType": "API",
    "isActive": true,
    "apiDetails": {
        "displayName": "Sendinblue",
        "apiKey": "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",
        "domainName": "sandbox272d9473b7db4eb88c923824f923961e.mailgun.org",
        "serverId": "44744"
    },
    "configuration": {
        "monthlyMailLimit": Int32(500),
        "dailyMailLimit": Int32(500)
    },
    "user": ObjectId("e9de5faec87ad8caf050a9a9"),
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0)
}
```

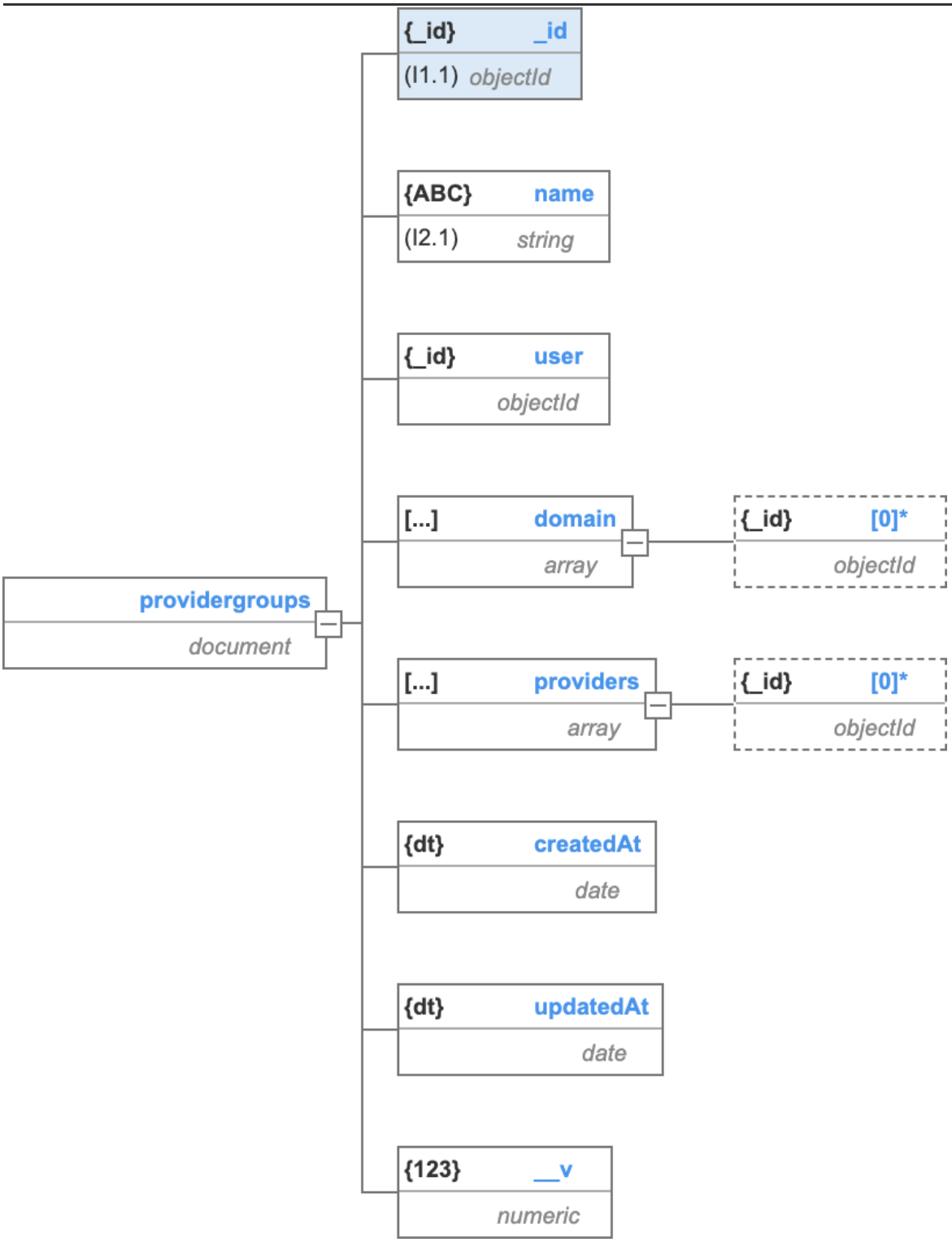
2.1.2.9.7 providerdetails Target Script

```
use nse-beta;

db.createCollection("providerdetails", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "providerdetails",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "provider": {
               "bsonType": "objectId"
            },
            "connectionType": {
               "bsonType": "string"
            },
            "isActive": {
               "bsonType": "bool"
            },
            "apiDetails": {
               "bsonType": "object",
               "properties": {
                  "displayName": {
                     "bsonType": "string"
                  },
                  "apiKey": {
                     "bsonType": "string"
                  },
                  "domainName": {
                     "bsonType": "string"
                  },
                  "serverId": {
                     "bsonType": "string"
                  }
               },
               "additionalProperties": true,
               "required": [
                  "displayName",
                  "apiKey"
               ]
            },
            "configuration": {
               "bsonType": "object",
               "properties": {
                  "monthlyMailLimit": {
                     "bsonType": "int"
                  },
                  "dailyMailLimit": {
                     "bsonType": "int"
                  }
               },
               "additionalProperties": true,
               "required": [
                  "monthlyMailLimit",
                  "dailyMailLimit"
               ]
            },
            "user": {
```

```
                "bsonType": "objectId"
            },
            "createdAt": {
                "bsonType": "date"
            },
            "updatedAt": {
                "bsonType": "date"
            },
            "__v": {
                "bsonType": "int"
            }
        },
        "additionalProperties": true,
        "required": [
            "_id",
            "provider",
            "connectionType",
            "isActive",
            "apiDetails",
            "configuration",
            "user",
            "createdAt",
            "updatedAt",
            "__v"
        ]
    }
},
"validationLevel": "off",
"validationAction": "warn"
});

db.providerdetails.createIndex({
    "_id": 1
},
{
    "name": "_id_"
});
```

2.1.2.10 Collection providergroups

2.1.2.10.1 providergroups Tree Diagram



2.1.2.10.2 providergroups Properties

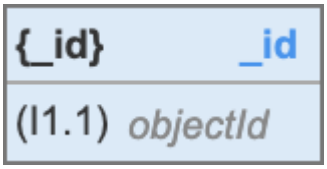
PROPERTY	VALUE
Collection name	providergroups
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.10.3 providergroups Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk, dk		
name	string	true			
user	objectId	true	fk		
domain	array	true			
[0]	objectId	false	fk		
providers	array	true			
[0]	objectId	false	fk		
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			

2.1.2.10.3.1 Field _id

2.1.2.10.3.1.1 _id Tree Diagram



2.1.2.10.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.10.3.2 Field name

2.1.2.10.3.2.1 name Tree Diagram

2.1.2.10.3.2.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	Nxwv 1
Comments	

2.1.2.10.3.3 Field user

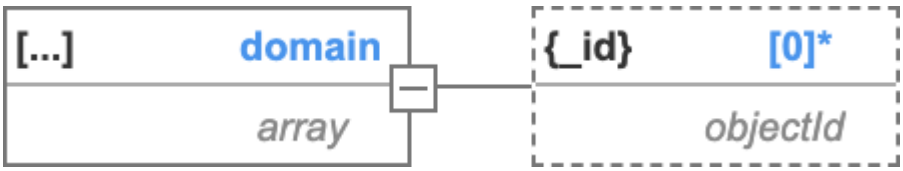
2.1.2.10.3.3.1 user Tree Diagram

2.1.2.10.3.3.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to providergroups.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.10.3.4 Field domain

2.1.2.10.3.4.1 domain Tree Diagram



2.1.2.10.3.4.2 domain Hierarchy

Parent field: **providergroups**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	objectId	false			

2.1.2.10.3.4.3 domain properties

PROPERTY	VALUE
Name	domain
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.10.3.5 Field [0]

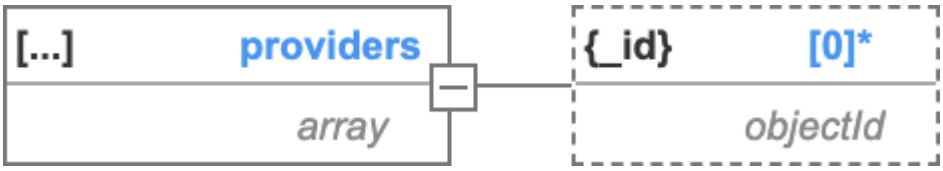
2.1.2.10.3.5.1 [0] Tree Diagram

2.1.2.10.3.5.2 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Primary key	
Foreign collection	domains
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk domains._id to providergroups.domain.0
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.10.3.6 Field providers

2.1.2.10.3.6.1 providers Tree Diagram



2.1.2.10.3.6.2 providers Hierarchy

Parent field: **providergroups**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	objectId	false			

2.1.2.10.3.6.3 providers properties

PROPERTY	VALUE
Name	providers
Technical name	
Activated	true
Id	
Field-level encryption	
Type	array
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min items	
Max items	
Unique items	
Additional items	true
Quantification	
Comments	

2.1.2.10.3.7 Field [0]

2.1.2.10.3.7.1 [0] Tree Diagram

2.1.2.10.3.7.2 [0] properties

PROPERTY	VALUE
Display name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Primary key	
Foreign collection	providerdetails
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk providerdetails._id to providergroups.providers.0
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.10.3.8 Field createdAt

2.1.2.10.3.8.1 createdAt Tree Diagram

2.1.2.10.3.8.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.10.3.9 Field updatedAt

2.1.2.10.3.9.1 updatedAt Tree Diagram

2.1.2.10.3.9.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.10.3.10 Field __v

2.1.2.10.3.10.1 __v Tree Diagram

2.1.2.10.3.10.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.10.4 providergroups Indexes

PROPERTY	_ID_	NAME_TEXT
Name	_id_	name_text
Activated		
Key	_id('ascending')	name('text')
Wildcard index		
Hashed		
Unique		
Drop duplicates		
Sparse		
Background indexing		true
Partial filter exp		
Expire after (seconds)		
Storage engine		
Comments		

2.1.2.10.5 providergroups JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "providergroups",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "name": {
            "type": "string"
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "domain": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "string",
                "pattern": "^[a-fA-F0-9]{24}$"
            }
        },
        "providers": {
            "type": "array",
            "additionalItems": true,
            "items": {
                "type": "string",
                "pattern": "^[a-fA-F0-9]{24}$"
            }
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "name",
        "user",
        "domain",
        "providers",
        "createdAt",
        "updatedAt",
        "__v"
    ]
}
```


2.1.2.10.6 providergroups JSON data

```
{
    "_id": ObjectId("76fee832745dc66c1a1caa18"),
    "name": "Nxwv 1",
    "user": ObjectId("d80654afd844cbbba9d3f18f"),
    "domain": [
        ObjectId("ad8c74dc9ceee04c1260b7b7")
    ],
    "providers": [
        ObjectId("fdef8c44b58494e5a3e5c70e")
    ],
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0)
}
```


2.1.2.10.7 providergroups Target Script

```
use nse-beta;

db.createCollection("providergroups", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "providergroups",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "name": {
               "bsonType": "string"
            },
            "user": {
               "bsonType": "objectId"
            },
            "domain": {
               "bsonType": "array",
               "additionalItems": true,
               "items": {
                  "bsonType": "objectId"
               }
            },
            "providers": {
               "bsonType": "array",
               "additionalItems": true,
               "items": {
                  "bsonType": "objectId"
               }
            },
            "createdAt": {
               "bsonType": "date"
            },
            "updatedAt": {
               "bsonType": "date"
            },
            "__v": {
               "bsonType": "int"
            }
         },
         "additionalProperties": true,
         "required": [
            "_id",
            "name",
            "user",
            "domain",
            "providers",
            "createdAt",
            "updatedAt",
            "__v"
         ]
      }
   },
   "validationLevel": "off",
   "validationAction": "warn"
});

db.providergroups.createIndex({
```

```
    "_id": 1
},
{
    "name": "_id_"
});

db.providergroups.createIndex({
    "name": "text"
},
{
    "name": "name_text",
    "background": true,
    "weights": {
        "name": 1
    },
    "default_language": "english",
    "language_override": "language",
    "textIndexVersion": 3
});
```

2.1.2.11 Collection smsotps

2.1.2.11.1 smsotps Tree Diagram

2.1.2.11.2 smsotps Properties

PROPERTY	VALUE
Collection name	smsotps
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.11.3 smsotps Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS

2.1.2.11.4 smsotps JSON Schema


```
{
   "$schema": "http://json-schema.org/draft-04/schema#",
   "type": "object",
   "title": "smsotps",
   "additionalProperties": true
}
```


2.1.2.11.5 smsotps JSON data

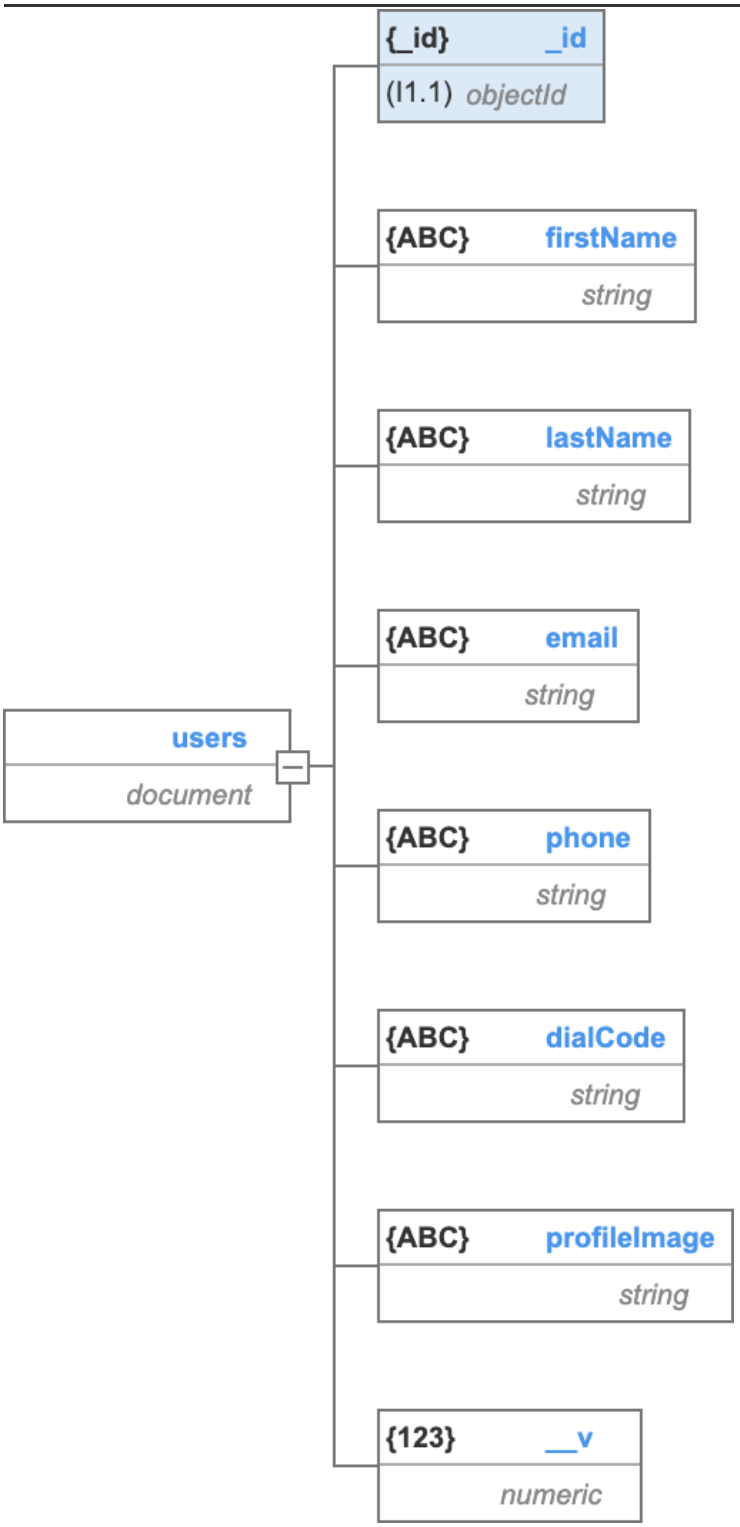

```
{}
```

2.1.2.11.6 smsotps Target Script

```
use nse-beta;

db.createCollection("smsotps", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "smsotps",
         "additionalProperties": true,
         "properties": {
            "_id": {
               "bsonType": "objectId"
            }
         }
      }
   },
   "validationLevel": "off",
   "validationAction": "warn"
});
```

2.1.2.12 Collection users

2.1.2.12.1 users Tree Diagram



2.1.2.12.2 users Properties

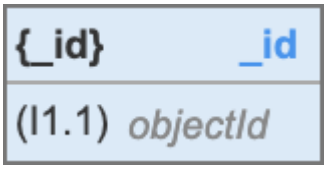
PROPERTY	VALUE
Collection name	users
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.12.3 users Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true	pk, dk		
firstName	string	true			
lastName	string	true			
email	string	true			
phone	string	true			
dialCode	string	true			
profileImage	string	true			
__v	integer32	true			

2.1.2.12.3.1 Field _id

2.1.2.12.3.1.1 _id Tree Diagram



2.1.2.12.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	
Comments	

2.1.2.12.3.2 Field firstName

2.1.2.12.3.2.1 firstName Tree Diagram

2.1.2.12.3.2.2 firstName properties

PROPERTY	VALUE
Name	firstName
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.12.3.3 Field lastName

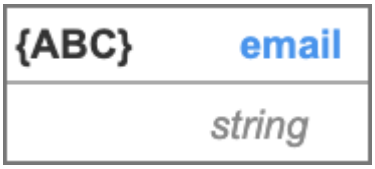
2.1.2.12.3.3.1 lastName Tree Diagram

2.1.2.12.3.3.2 lastName properties

PROPERTY	VALUE
Name	lastName
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.12.3.4 Field email

2.1.2.12.3.4.1 email Tree Diagram



2.1.2.12.3.4.2 email properties

PROPERTY	VALUE
Name	email
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	rushiraj@nexweave.com
Comments	

2.1.2.12.3.5 Field phone

2.1.2.12.3.5.1 phone Tree Diagram

2.1.2.12.3.5.2 phone properties

PROPERTY	VALUE
Name	phone
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.12.3.6 Field dialCode

2.1.2.12.3.6.1 dialCode Tree Diagram

2.1.2.12.3.6.2 dialCode properties

PROPERTY	VALUE
Name	dialCode
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.12.3.7 Field profileImage

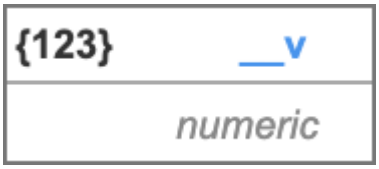
2.1.2.12.3.7.1 profileImage Tree Diagram

2.1.2.12.3.7.2 profileImage properties

PROPERTY	VALUE
Name	profileImage
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	https://ui-avatars.com/api/?name=rushiraj&size=128
Comments	

2.1.2.12.3.8 Field __v

2.1.2.12.3.8.1 __v Tree Diagram



2.1.2.12.3.8.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.12.4 users Indexes

PROPERTY	_ID_
Name	_id_
Activated	
Key	_id('ascending')
Wildcard index	
Hashed	
Unique	
Drop duplicates	
Sparse	
Background indexing	
Partial filter exp	
Expire after (seconds)	
Storage engine	
Comments	

2.1.2.12.5 users JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "users",
    "properties": {
        "_id": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "firstName": {
            "type": "string"
        },
        "lastName": {
            "type": "string"
        },
        "email": {
            "type": "string"
        },
        "phone": {
            "type": "string"
        },
        "dialCode": {
            "type": "string"
        },
        "profileImage": {
            "type": "string"
        },
        "__v": {
            "type": "integer"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "firstName",
        "lastName",
        "email",
        "phone",
        "dialCode",
        "profileImage",
        "__v"
    ]
}
```


2.1.2.12.6 users JSON data

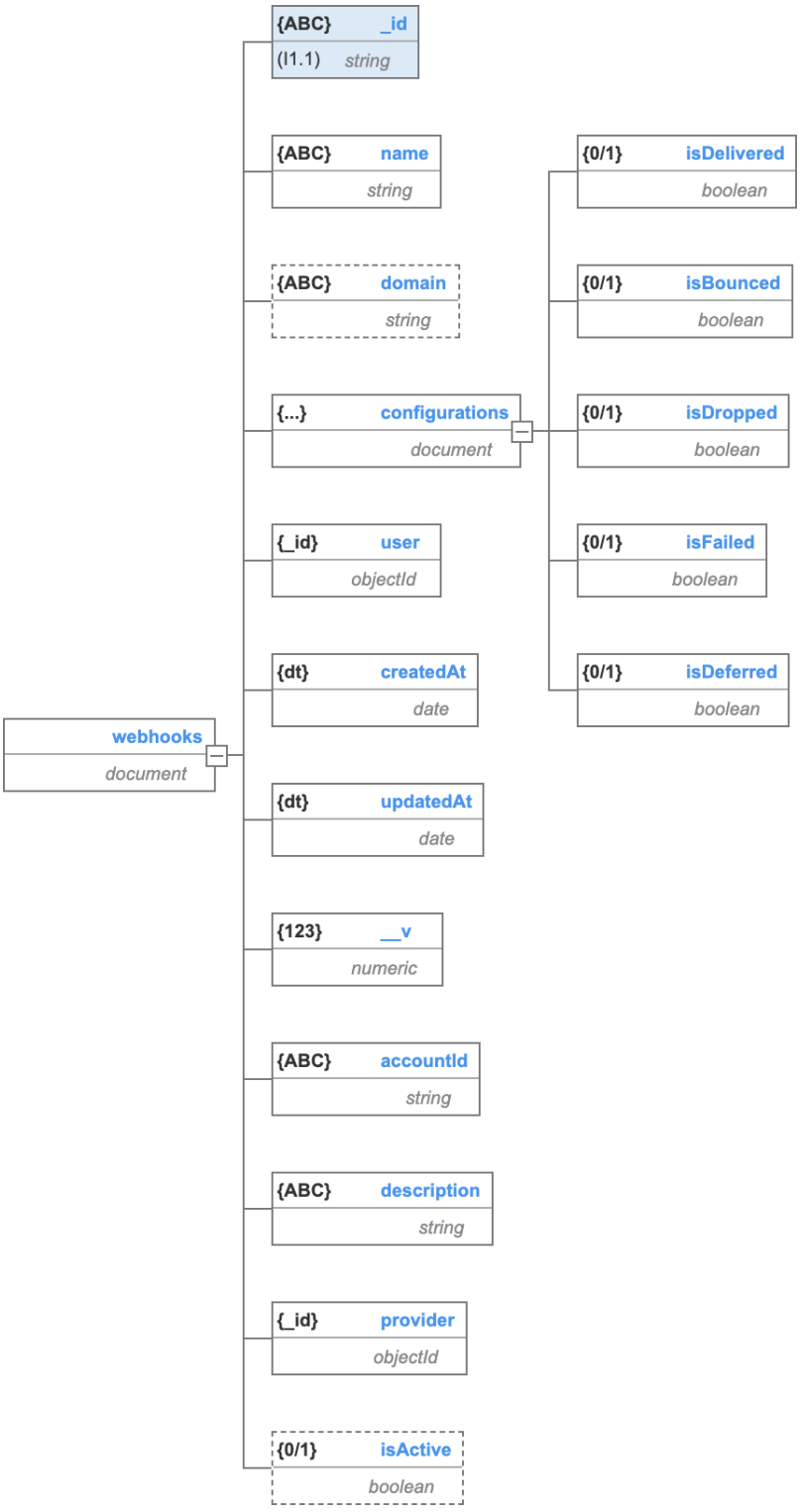

```
{
    "_id": ObjectId("0cf6e952ce17b1ebaedfedcb"),
    "firstName": "Lorem",
    "lastName": "Lorem",
    "email": "rushiraj@nexweave.com",
    "phone": "Lorem",
    "dialCode": "Lorem",
    "profileImage": "https://ui-avatars.com/api/?name=rushiraj&size=128",
    "__v": Int32(0)
}
```

2.1.2.12.7 users Target Script

```
use nse-beta;

db.createCollection("users", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "users",
         "properties": {
            "_id": {
               "bsonType": "objectId"
            },
            "firstName": {
               "bsonType": "string"
            },
            "lastName": {
               "bsonType": "string"
            },
            "email": {
               "bsonType": "string"
            },
            "phone": {
               "bsonType": "string"
            },
            "dialCode": {
               "bsonType": "string"
            },
            "profileImage": {
               "bsonType": "string"
            },
            "__v": {
               "bsonType": "int"
            }
         },
         "additionalProperties": true,
         "required": [
            "_id",
            "firstName",
            "lastName",
            "email",
            "phone",
            "dialCode",
            "profileImage",
            "__v"
         ]
      }
   },
   "validationLevel": "off",
   "validationAction": "warn"
});

db.users.createIndex({
   "_id": 1
},
{
   "name": "_id_"
});
```

2.1.2.13 Collection webhooks

2.1.2.13.1 webhooks Tree Diagram



2.1.2.13.2 webhooks Properties

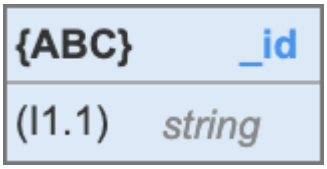
PROPERTY	VALUE
Collection name	webhooks
Technical name	
Activated	true
Id	
$ref	
Description	
Database	nse-beta
Capped	
Time series	
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Encryption metadata	
Additional properties	true
Workload analysis	
[1] Actor	
Description	
Number of documents	
Avg document size (Bytes)	
Read-to-Write ratio	
Keep forever	
Retention (months)	
Write operations	
Read operations	
Comments	

2.1.2.13.3 webhooks Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	string	true	pk		
name	string	true			
domain	string	false			
configurations	document	true			
isDelivered	boolean	true			
isBounced	boolean	true			
isDropped	boolean	true			
isFailed	boolean	true			
isDeferred	boolean	true			
user	objectId	true	fk		
createdAt	date	true			
updatedAt	date	true			
__v	integer32	true			
accountId	string	true			
description	string	true			
provider	objectId	true	fk		
isActive	boolean	false			

2.1.2.13.3.1 Field _id

2.1.2.13.3.1.1 _id Tree Diagram

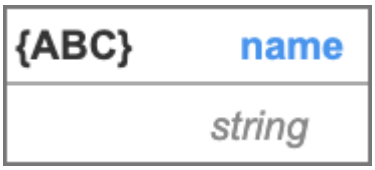


2.1.2.13.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	true
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	ZEqFNC43Ckh9
Comments	

2.1.2.13.3.2 Field name

2.1.2.13.3.2.1 name Tree Diagram



2.1.2.13.3.2.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	Beck Mandrill
Comments	

2.1.2.13.3.3 Field domain

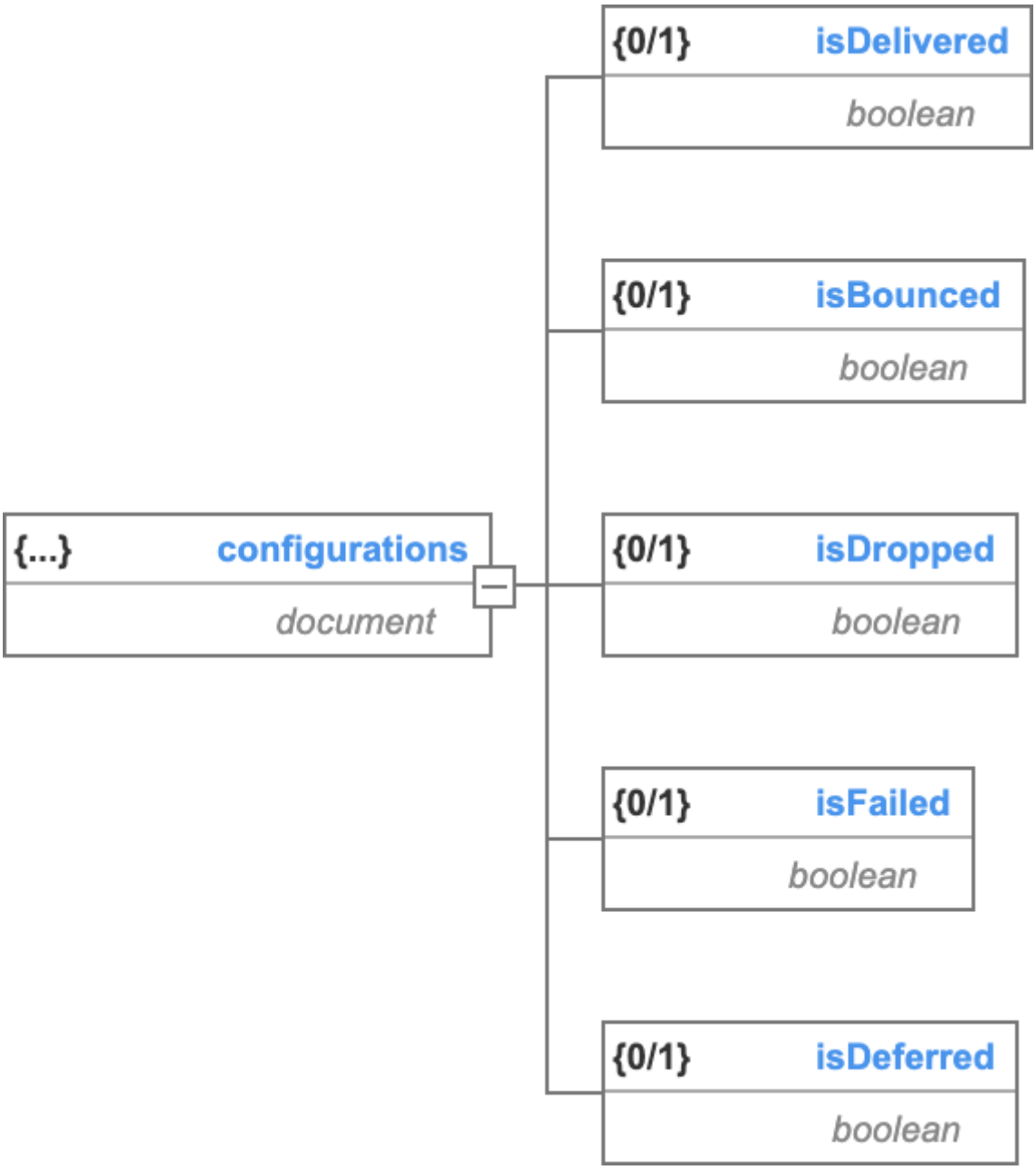
2.1.2.13.3.3.1 domain Tree Diagram

2.1.2.13.3.3.2 domain properties

PROPERTY	VALUE
Name	domain
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	false
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	sandbox272d9473b7db4eb88c923824f923961e.mailgun.org
Comments	

2.1.2.13.3.4 Field configurations

2.1.2.13.3.4.1 configurations Tree Diagram



2.1.2.13.3.4.2 configurations Hierarchy

Parent field: **webhooks**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
isDelivered	boolean	true			
isBounced	boolean	true			
isDropped	boolean	true			
isFailed	boolean	true			
isDeferred	boolean	true			

2.1.2.13.3.4.3 configurations properties

PROPERTY	VALUE
Name	configurations
Technical name	
Activated	true
Id	
Field-level encryption	
Type	document
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
DBRef	
Min Properties	
Max Properties	
Additional properties	true
Comments	

2.1.2.13.3.5 Field isDelivered

2.1.2.13.3.5.1 isDelivered Tree Diagram

2.1.2.13.3.5.2 isDelivered properties

PROPERTY	VALUE
Name	isDelivered
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	false
Comments	

2.1.2.13.3.6 Field isBounced

2.1.2.13.3.6.1 isBounced Tree Diagram

2.1.2.13.3.6.2 isBounced properties

PROPERTY	VALUE
Name	isBounced
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.13.3.7 Field isDropped

2.1.2.13.3.7.1 isDropped Tree Diagram

2.1.2.13.3.7.2 isDropped properties

PROPERTY	VALUE
Name	isDropped
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.13.3.8 Field isFailed

2.1.2.13.3.8.1 isFailed Tree Diagram

2.1.2.13.3.8.2 isFailed properties

PROPERTY	VALUE
Name	isFailed
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.13.3.9 Field isDeferred

2.1.2.13.3.9.1 isDeferred Tree Diagram

2.1.2.13.3.9.2 isDeferred properties

PROPERTY	VALUE
Name	isDeferred
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.13.3.10 Field user

2.1.2.13.3.10.1 user Tree Diagram

2.1.2.13.3.10.2 user properties

PROPERTY	VALUE
Name	user
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk users._id to webhooks.user
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.13.3.11 Field createdAt

2.1.2.13.3.11.1 createdAt Tree Diagram

2.1.2.13.3.11.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.13.3.12 Field updatedAt

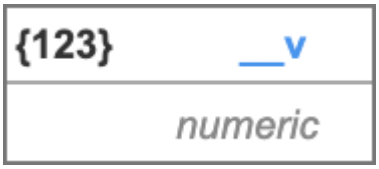
2.1.2.13.3.12.1 updatedAt Tree Diagram

2.1.2.13.3.12.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Activated	true
Id	
Field-level encryption	
Type	date
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Now	
Faker function	
Sample	
Comments	

2.1.2.13.3.13 Field __v

2.1.2.13.3.13.1 __v Tree Diagram



2.1.2.13.3.13.2 __v properties

PROPERTY	VALUE
Name	__v
Technical name	
Activated	true
Id	
Field-level encryption	
Type	numeric
Subtype	integer32
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Unit	
Min value	
Excl min	
Max value	
Excl max	
Multiple of	
Divisible by	
Enum	
Faker function	
Sample	0
Comments	

2.1.2.13.3.14 Field accountId

2.1.2.13.3.14.1 accountId Tree Diagram

2.1.2.13.3.14.2 accountId properties

PROPERTY	VALUE
Name	accountId
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	
Comments	

2.1.2.13.3.15 Field description

2.1.2.13.3.15.1 description Tree Diagram

2.1.2.13.3.15.2 description properties

PROPERTY	VALUE
Name	description
Technical name	
Activated	true
Id	
Field-level encryption	
Type	string
Description	
Format	
Pattern	
Min length	
Max length	
Default	
Enum	
Required	true
Primary key	false
Dependencies	
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Faker function	
Sample	Beck's Main Mandrill Account.
Comments	

2.1.2.13.3.16 Field provider

2.1.2.13.3.16.1 provider Tree Diagram

2.1.2.13.3.16.2 provider properties

PROPERTY	VALUE
Name	provider
Technical name	
Activated	true
Id	
Field-level encryption	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	emailproviders
Foreign field	_id
Relationship type	Foreign Key
Relationship name	fk emailproviders._id to webhooks.provider
Cardinality	0..n
Default	
Sample	
Comments	

2.1.2.13.3.17 Field isActive

2.1.2.13.3.17.1 isActive Tree Diagram

2.1.2.13.3.17.2 isActive properties

PROPERTY	VALUE
Name	isActive
Technical name	
Activated	true
Id	
Field-level encryption	
Type	boolean
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Default	
Sample	true
Comments	

2.1.2.13.4 webhooks Indexes

PROPERTY	_ID_
Name	_id_
Activated	
Key	_id('ascending')
Wildcard index	
Hashed	
Unique	
Drop duplicates	
Sparse	
Background indexing	
Partial filter exp	
Expire after (seconds)	
Storage engine	
Comments	

2.1.2.13.5 webhooks JSON Schema

```
{
    "$schema": "http://json-schema.org/draft-04/schema#",
    "type": "object",
    "title": "webhooks",
    "properties": {
        "_id": {
            "type": "string"
        },
        "name": {
            "type": "string"
        },
        "domain": {
            "type": "string"
        },
        "configurations": {
            "type": "object",
            "properties": {
                "isDelivered": {
                    "type": "boolean"
                },
                "isBounced": {
                    "type": "boolean"
                },
                "isDropped": {
                    "type": "boolean"
                },
                "isFailed": {
                    "type": "boolean"
                },
                "isDeferred": {
                    "type": "boolean"
                }
            },
            "additionalProperties": true,
            "required": [
                "isDelivered",
                "isBounced",
                "isDropped",
                "isFailed",
                "isDeferred"
            ]
        },
        "user": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "createdAt": {
            "type": "string",
            "format": "date-time"
        },
        "updatedAt": {
            "type": "string",
            "format": "date-time"
        },
        "__v": {
            "type": "integer"
        },
        "accountId": {
            "type": "string"
        },
```

```
        "description": {
            "type": "string"
        },
        "provider": {
            "type": "string",
            "pattern": "^[a-fA-F0-9]{24}$"
        },
        "isActive": {
            "type": "boolean"
        }
    },
    "additionalProperties": true,
    "required": [
        "_id",
        "name",
        "configurations",
        "user",
        "createdAt",
        "updatedAt",
        "__v",
        "accountId",
        "description",
        "provider"
    ]
}
```

2.1.2.13.6 webhooks JSON data

```
{
    "_id": "ZEqFNC43Ckh9",
    "name": "Beck Mandrill",
    "domain": "sandbox272d9473b7db4eb88c923824f923961e.mailgun.org",
    "configurations": {
        "isDelivered": false,
        "isBounced": true,
        "isDropped": true,
        "isFailed": true,
        "isDeferred": true
    },
    "user": ObjectId("27edec87e31fc3ae218fa0f0"),
    "createdAt": ISODate("2016-04-08T15:06:21.595Z"),
    "updatedAt": ISODate("2016-04-08T15:06:21.595Z"),
    "__v": Int32(0),
    "accountId": "Lorem",
    "description": "Beck's Main Mandrill Account.",
    "provider": ObjectId("e030addab092ea4f6cb171da"),
    "isActive": true
}
```

2.1.2.13.7 webhooks Target Script

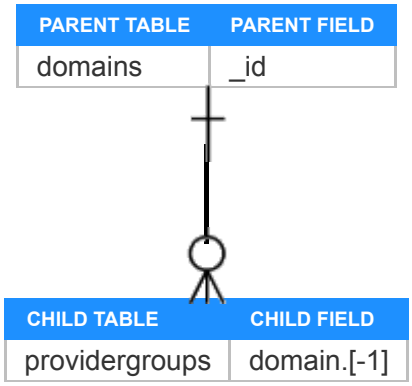
```
use nse-beta;

db.createCollection("webhooks", {
   "capped": false,
   "validator": {
      "$jsonSchema": {
         "bsonType": "object",
         "title": "webhooks",
         "properties": {
            "_id": {
               "bsonType": "string"
            },
            "name": {
               "bsonType": "string"
            },
            "domain": {
               "bsonType": "string"
            },
            "configurations": {
               "bsonType": "object",
               "properties": {
                  "isDelivered": {
                     "bsonType": "bool"
                  },
                  "isBounced": {
                     "bsonType": "bool"
                  },
                  "isDropped": {
                     "bsonType": "bool"
                  },
                  "isFailed": {
                     "bsonType": "bool"
                  },
                  "isDeferred": {
                     "bsonType": "bool"
                  }
               },
               "additionalProperties": true,
               "required": [
                  "isDelivered",
                  "isBounced",
                  "isDropped",
                  "isFailed",
                  "isDeferred"
               ]
            },
            "user": {
               "bsonType": "objectId"
            },
            "createdAt": {
               "bsonType": "date"
            },
            "updatedAt": {
               "bsonType": "date"
            },
            "__v": {
               "bsonType": "int"
            },
            "accountId": {
               "bsonType": "string"
```

```
            },
            "description": {
               "bsonType": "string"
            },
            "provider": {
               "bsonType": "objectId"
            },
            "isActive": {
               "bsonType": "bool"
            }
         },
         "additionalProperties": true,
         "required": [
            "_id",
            "name",
            "configurations",
            "user",
            "createdAt",
            "updatedAt",
            "__v",
            "accountId",
            "description",
            "provider"
         ]
      }
   },
   "validationLevel": "off",
   "validationAction": "warn"
});

db.webhooks.createIndex({
   "_id": 1
},
{
   "name": "_id_"
});
```

3. RELATIONSHIPS

3.1 Relationship fk domains._id to providergroups.domain.0

3.1.1 fk domains._id to providergroups.domain.0 Diagram

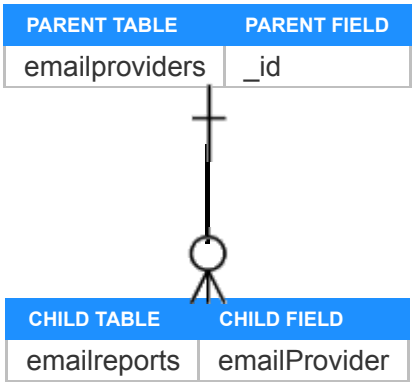


3.1.2 fk domains._id to providergroups.domain.0 Properties

PROPERTY	VALUE
Name	fk domains._id to providergroups.domain.0
Description	
Parent Collection	domains
Parent field	_id
Parent Cardinality	1
Child Collection	providergroups
Child field	
Child Cardinality	0..n
Comments	

3.2 Relationship fk emailproviders._id to emailreports.emailProvider

3.2.1 fk emailproviders._id to emailreports.emailProvider Diagram

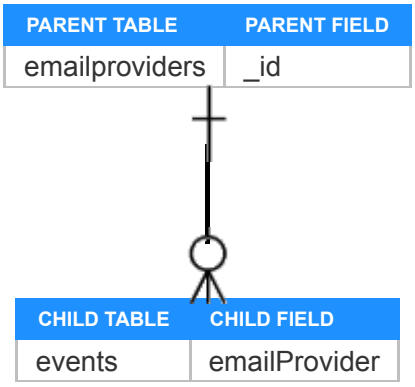


3.2.2 fk emailproviders._id to emailreports.emailProvider Properties

PROPERTY	VALUE
Name	fk emailproviders._id to emailreports.emailProvider
Description	
Parent Collection	emailproviders
Parent field	_id
Parent Cardinality	1
Child Collection	emailreports
Child field	emailProvider
Child Cardinality	0..n
Comments	

3.3 Relationship fk emailproviders._id to events.emailProvider

3.3.1 fk emailproviders._id to events.emailProvider Diagram

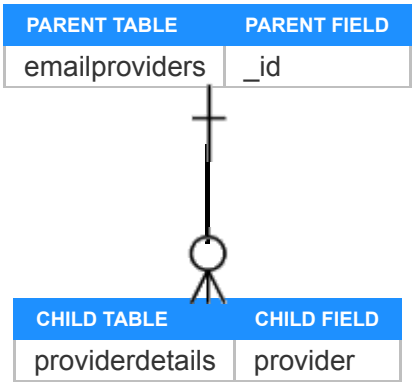


3.3.2 fk emailproviders._id to events.emailProvider Properties

PROPERTY	VALUE
Name	fk emailproviders._id to events.emailProvider
Description	
Parent Collection	emailproviders
Parent field	_id
Parent Cardinality	1
Child Collection	events
Child field	emailProvider
Child Cardinality	0..n
Comments	

3.4 Relationship fk emailproviders._id to providerdetails.provider

3.4.1 fk emailproviders._id to providerdetails.provider Diagram

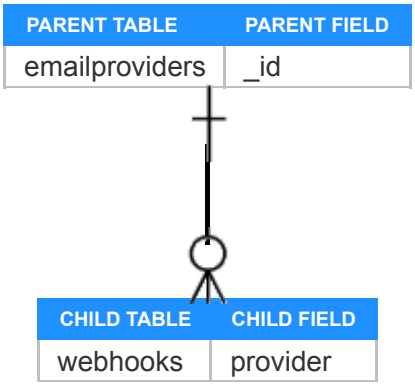


3.4.2 fk emailproviders._id to providerdetails.provider Properties

PROPERTY	VALUE
Name	fk emailproviders._id to providerdetails.provider
Description	
Parent Collection	emailproviders
Parent field	_id
Parent Cardinality	1
Child Collection	providerdetails
Child field	provider
Child Cardinality	0..n
Comments	

3.5 Relationship fk emailproviders._id to webhooks.provider

3.5.1 fk emailproviders._id to webhooks.provider Diagram

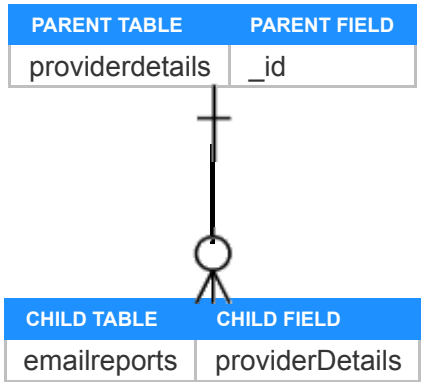


3.5.2 fk emailproviders._id to webhooks.provider Properties

PROPERTY	VALUE
Name	fk emailproviders._id to webhooks.provider
Description	
Parent Collection	emailproviders
Parent field	_id
Parent Cardinality	1
Child Collection	webhooks
Child field	provider
Child Cardinality	0..n
Comments	

3.6 Relationship fk providerdetails._id to emailreports.providerDetails

3.6.1 fk providerdetails._id to emailreports.providerDetails Diagram

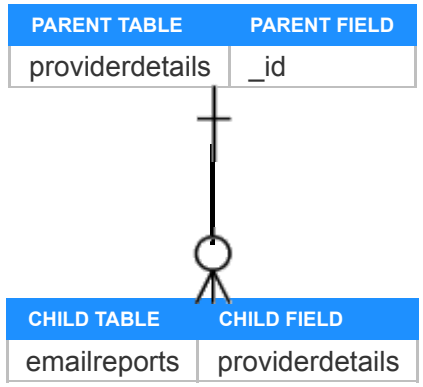


3.6.2 fk providerdetails._id to emailreports.providerDetails Properties

PROPERTY	VALUE
Name	fk providerdetails._id to emailreports.providerDetails
Description	
Parent Collection	providerdetails
Parent field	_id
Parent Cardinality	1
Child Collection	emailreports
Child field	providerDetails
Child Cardinality	0..n
Comments	

3.7 Relationship fk providerdetails._id to emailreports.providerdetails

3.7.1 fk providerdetails._id to emailreports.providerdetails Diagram

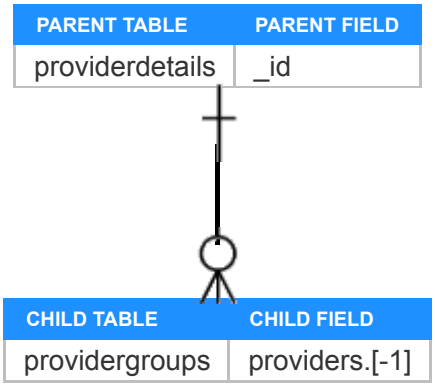


3.7.2 fk providerdetails._id to emailreports.providerdetails Properties

PROPERTY	VALUE
Name	fk providerdetails._id to emailreports.providerdetails
Description	
Parent Collection	providerdetails
Parent field	_id
Parent Cardinality	1
Child Collection	emailreports
Child field	providerdetails
Child Cardinality	0..n
Comments	

3.8 Relationship fk providerdetails._id to providergroups.providers.0

3.8.1 fk providerdetails._id to providergroups.providers.0 Diagram

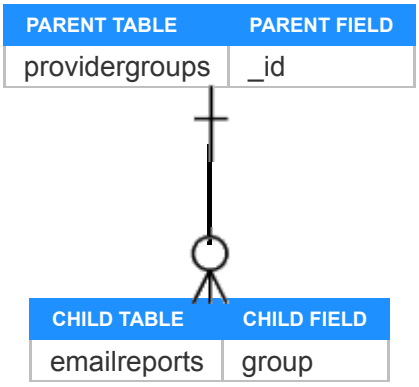


3.8.2 fk providerdetails._id to providergroups.providers.0 Properties

PROPERTY	VALUE
Name	fk providerdetails._id to providergroups.providers.0
Description	
Parent Collection	providerdetails
Parent field	_id
Parent Cardinality	1
Child Collection	providergroups
Child field	
Child Cardinality	0..n
Comments	

3.9 Relationship fk providergroups._id to emailreports.group

3.9.1 fk providergroups._id to emailreports.group Diagram

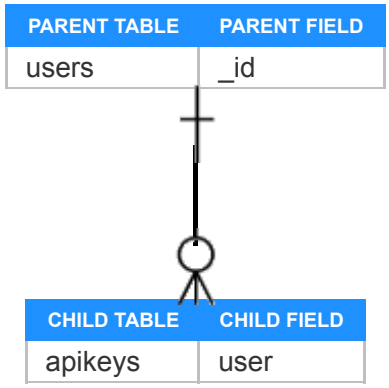


3.9.2 fk providergroups._id to emailreports.group Properties

PROPERTY	VALUE
Name	fk providergroups._id to emailreports.group
Description	
Parent Collection	providergroups
Parent field	_id
Parent Cardinality	1
Child Collection	emailreports
Child field	group
Child Cardinality	0..n
Comments	

3.10 Relationship fk users._id to apikeys.user

3.10.1 fk users._id to apikeys.user Diagram

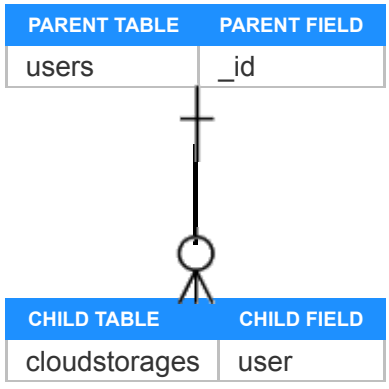


3.10.2 fk users._id to apikeys.user Properties

PROPERTY	VALUE
Name	fk users._id to apikeys.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	apikeys
Child field	user
Child Cardinality	0..n
Comments	

3.11 Relationship fk users._id to cloudstorages.user

3.11.1 fk users._id to cloudstorages.user Diagram

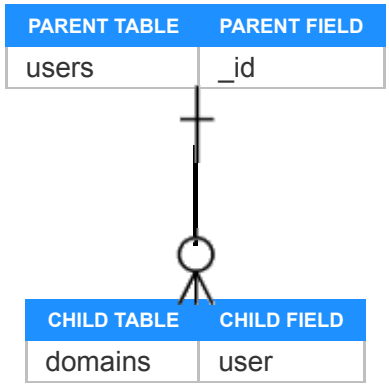


3.11.2 fk users._id to cloudstorages.user Properties

PROPERTY	VALUE
Name	fk users._id to cloudstorages.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	cloudstorages
Child field	user
Child Cardinality	0..n
Comments	

3.12 Relationship fk users._id to domains.user

3.12.1 fk users._id to domains.user Diagram

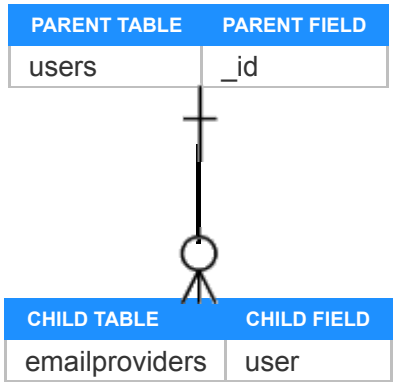


3.12.2 fk users._id to domains.user Properties

PROPERTY	VALUE
Name	fk users._id to domains.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	domains
Child field	user
Child Cardinality	0..n
Comments	

3.13 Relationship fk users._id to emailproviders.user

3.13.1 fk users._id to emailproviders.user Diagram

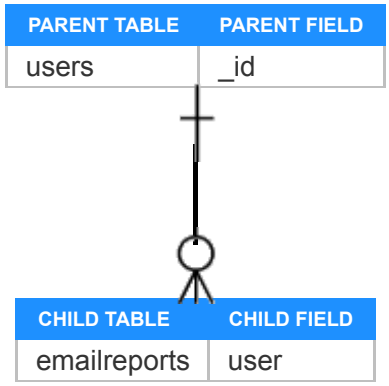


3.13.2 fk users._id to emailproviders.user Properties

PROPERTY	VALUE
Name	fk users._id to emailproviders.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	emailproviders
Child field	user
Child Cardinality	0..n
Comments	

3.14 Relationship fk users._id to emailreports.user

3.14.1 fk users._id to emailreports.user Diagram

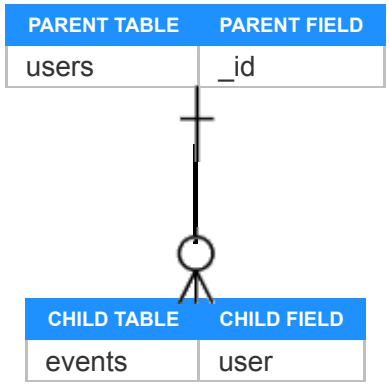


3.14.2 fk users._id to emailreports.user Properties

PROPERTY	VALUE
Name	fk users._id to emailreports.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	emailreports
Child field	user
Child Cardinality	0..n
Comments	

3.15 Relationship fk users._id to events.user

3.15.1 fk users._id to events.user Diagram

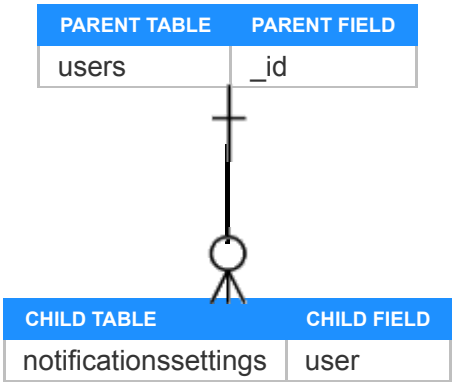


3.15.2 fk users._id to events.user Properties

PROPERTY	VALUE
Name	fk users._id to events.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	events
Child field	user
Child Cardinality	0..n
Comments	

3.16 Relationship fk users._id to notificationssettings.user

3.16.1 fk users._id to notificationssettings.user Diagram

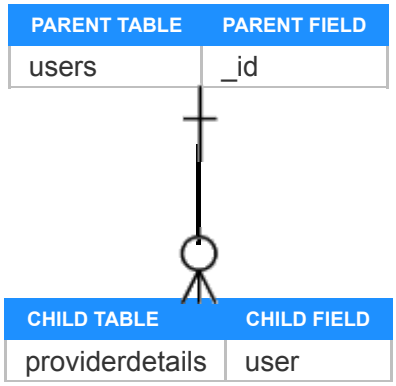


3.16.2 fk users._id to notificationssettings.user Properties

PROPERTY	VALUE
Name	fk users._id to notificationssettings.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	notificationssettings
Child field	user
Child Cardinality	0..n
Comments	

3.17 Relationship fk users._id to providerdetails.user

3.17.1 fk users._id to providerdetails.user Diagram

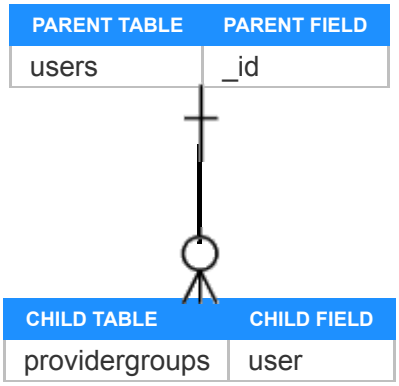


3.17.2 fk users._id to providerdetails.user Properties

PROPERTY	VALUE
Name	fk users._id to providerdetails.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	providerdetails
Child field	user
Child Cardinality	0..n
Comments	

3.18 Relationship fk users._id to providergroups.user

3.18.1 fk users._id to providergroups.user Diagram

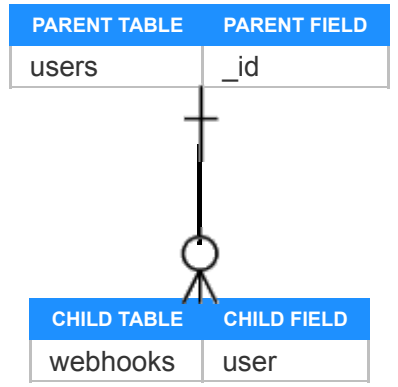


3.18.2 fk users._id to providergroups.user Properties

PROPERTY	VALUE
Name	fk users._id to providergroups.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	providergroups
Child field	user
Child Cardinality	0..n
Comments	

3.19 Relationship fk users._id to webhooks.user

3.19.1 fk users._id to webhooks.user Diagram



3.19.2 fk users._id to webhooks.user Properties

PROPERTY	VALUE
Name	fk users._id to webhooks.user
Description	
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	webhooks
Child field	user
Child Cardinality	0..n
Comments	