

RIPE Database Tips and Tricks

Marco Hogewoning
Alex le Heux

Moscow, 28 November 2011



Overview

- What is the RIPE Database?
- Person and Role Objects
- Maintainers, Protection and Authentication
- Updating the RIPE DB
- Querying the RIPE DB
- New Developments
- Practical Scenarios

The RIPE Database

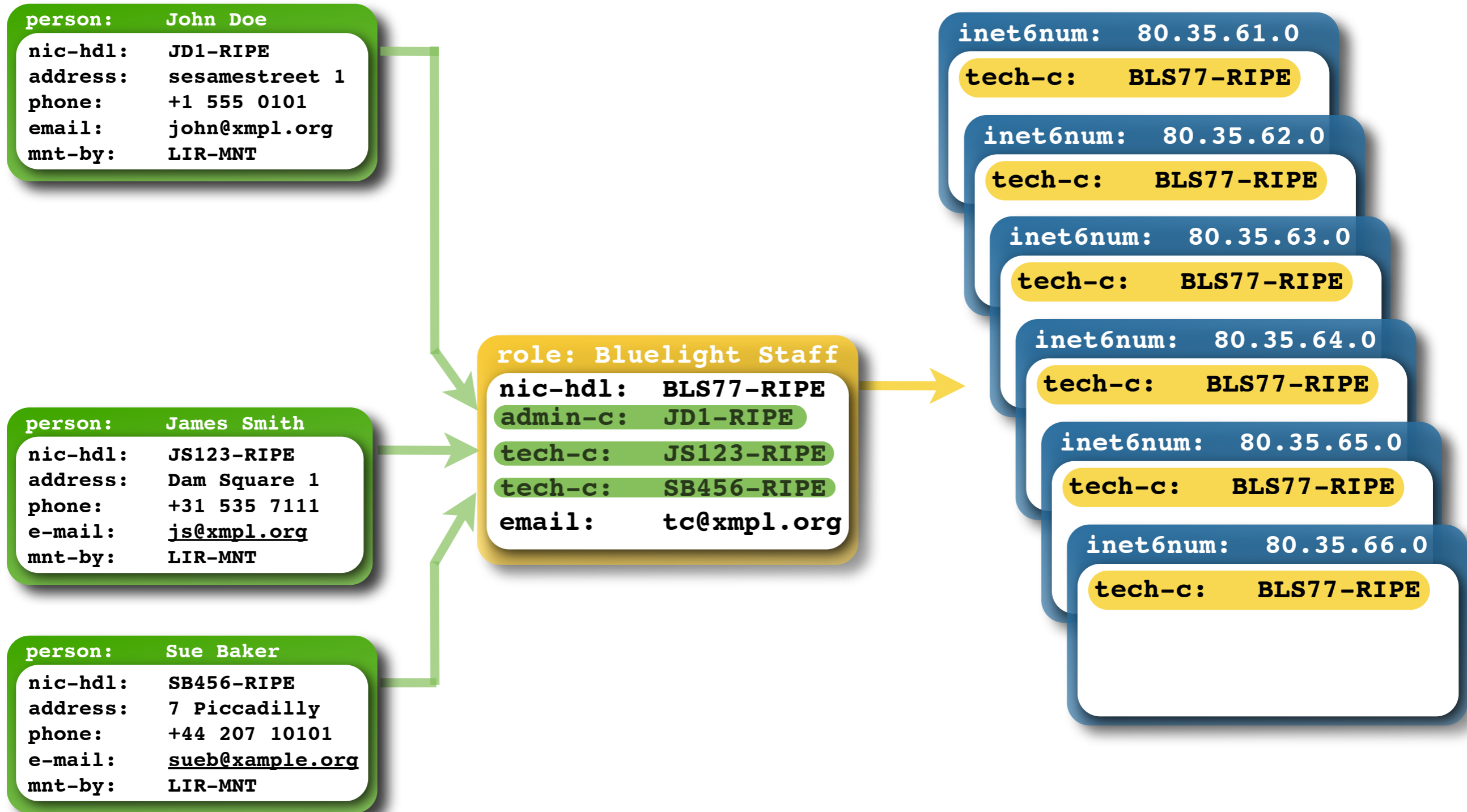
RIPE Database

- Public Internet resource and routing registry database
- Registering resources
 - inetnum, inet6num, aut-num
- Contact info
 - person, role
- Protection and authentication
 - mntner

Person Object

```
person:          John Example
address:        Singel 258
address:        1016 AB Amsterdam
address:        The Netherland
phone:          +31 20 535 4444
e-mail:         johne@bluelight.ripe.net
nic-hdl:        JE1787-RIPE
mnt-by:         EXM-MNT
changed:        johne@bluelight.ripe.net 20111007
source:         RIPE
```

Using a Role Object



Questions?



Maintainers, Protection and Authentication

The Maintainer Object

- Acts as a lock for your objects
- It is not related to a real person
- A single maintainer can protect multiple objects
 - Different types
 - Related to different people or even companies
- An object can have multiple maintainers
- At least one maintainer is mandatory for all objects in the RIPE Database

Maintainer Object Template

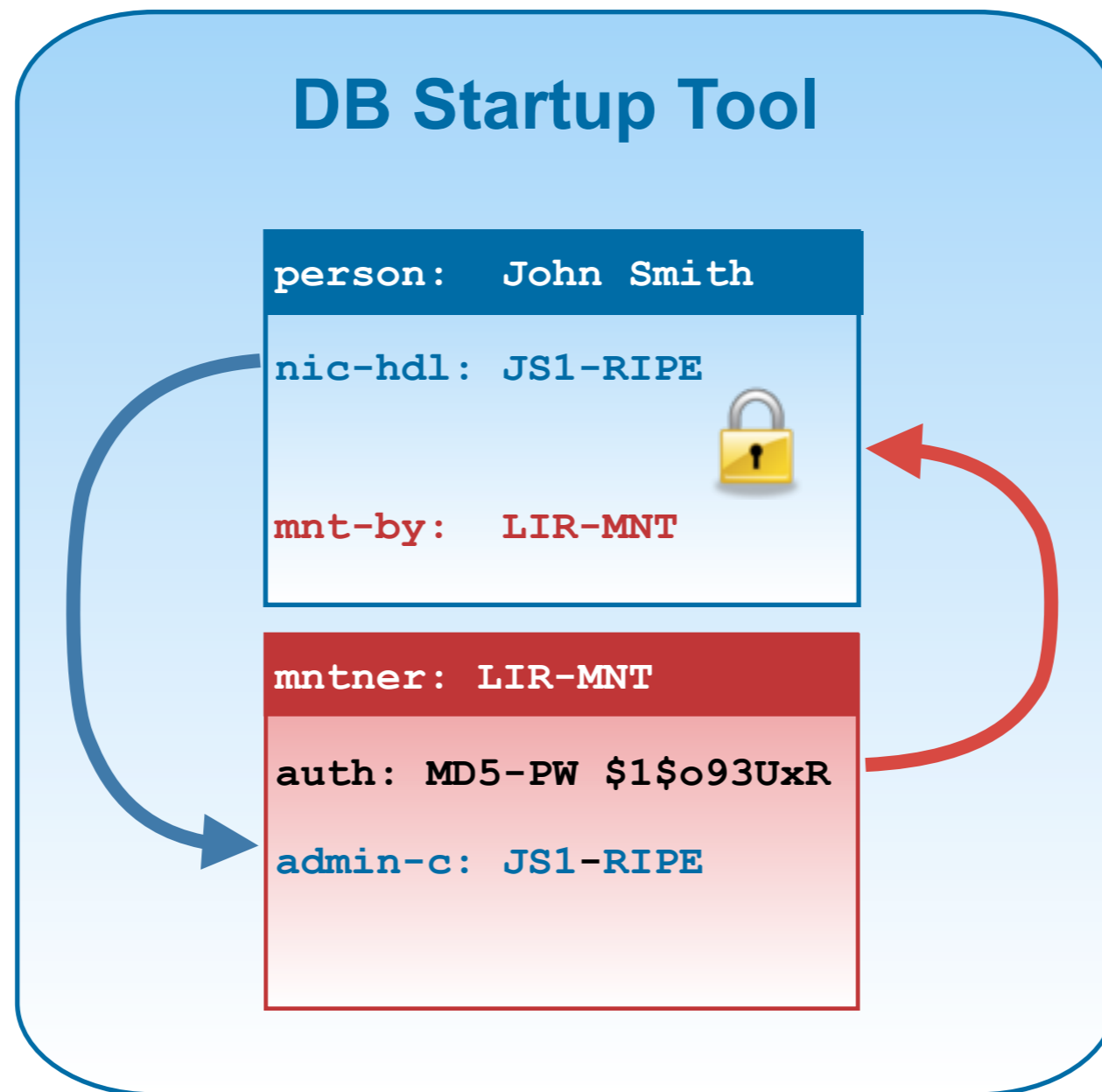
mntner:	[mandatory]	[single]
descr:	[mandatory]	[multiple]
org:	[optional]	[multiple]
admin-c:	[mandatory]	[multiple]
tech-c:	[optional]	[multiple]
upd-to:	[mandatory]	[multiple]
mnt-nfy:	[optional]	[multiple]
auth:	[mandatory]	[multiple]
remarks:	[optional]	[multiple]
notify:	[optional]	[multiple]
abuse-mailbox:	[optional]	[multiple]
mnt-by:	[mandatory]	[multiple]
referral-by:	[mandatory]	[single]
changed:	[mandatory]	[multiple]
source:	[mandatory]	[single]

Maintainer Object

```
mntner:           EXM-MNT
descr:           Maintainer
admin-c:         JE1787-RIPE
upd-to:          johne@bluelight.ripe.net
auth:            MD5-PW $1$as7bGWgr$D7J3qPU8LXmEdusi59gsJ1
mnt-by:          EXM-MNT
referral-by:     EXM-MNT
notify:          johne@bluelight.ripe.net
changed:         johne@bluelight.ripe.net 20111007
remarks:         Accepted the RIPE Database Terms and Conditions
source:          RIPE
```

DB Startup Tool

- Creation of first **person** object - **mntner** object pair



DB Startup Tool Interface

New Organisation Startup Form

Select Database

Source:

Person Object

Person:

NIC hdl:

Address:

Phone:

Email:

The NIC hdl has a fixed format. If you are not sure what to enter, leave it blank and it will be generated for you. This NIC hdl cannot be changed after creation. For further details about NIC hdl see [RIPE Database User Manual-Getting Started](#).

Maintainer Object

Maintainer name:

Password:

Password (again):

If you leave the maintainer name field blank it will be generated for you.

Accept Terms and Conditions

I accept the [RIPE Database Terms and Conditions](#).

DB Startup Tool: Results

New Organisation Startup Form

i Succeeded! Where to go from here...

We have created two RIPE Database objects for you, please make a note of the primary keys (shown in bold letters) for these two objects for future reference:

person nic-hdl: JE1787-RIPE

```
person: John Example
address: Singel 258
address: 1016 AB Amsterdam
address: The Netherland
phone: +31 20 535 4444
e-mail: johne@bluelight.ripe.net
nic-hdl: JE1787-RIPE
mnt-by: EXM-MNT
changed: johne@bluelight.ripe.net 20111007
source: RIPE
```

maintainer name: EXM-MNT

```
mntner: EXM-MNT
descr: Maintainer
admin-c: JE1787-RIPE
upd-to: johne@bluelight.ripe.net
auth: MD5-PW $1$as7bGWgr$D7J3qPU8LXmEdusi59gsJ1
mnt-by: EXM-MNT
referral-by: EXM-MNT
notify: johne@bluelight.ripe.net
changed: johne@bluelight.ripe.net 20111007
remarks: Accepted the RIPE Database Terms and Conditions
source: RIPE
```

1. Create a Maintainer Via Webupdates

- If you already have a person or role object:
 1. Choose password
 2. Encrypt it using the web tool at
<https://apps.db.ripe.net/crypt/>
 3. Select to create a maintainer object
 4. Include encrypted password in the auth attribute
auth: MD5-PW \$1\$o93UxR
 5. Fill out the rest of the fields and click create
 6. Remember to supply the password!

2. Protect an Object

- Add this line to the object
 - **mnt-by: EXM-MNT**



3. When to Use Your Password

- When creating, supply the password of the new maintainer
- When updating/deleting, supply the password of the current maintainer

PGP Authentication

- More secure than MD5 password
- Private/public key pair



Using a Single Maintainer

```
mntner: LIR-MNT  
auth: MD5-PW $1$o93Ux
```

```
inetnum: 85.118.184.0/24
```

```
status: ASSIGNED PA  
mnt-by: LIR-MNT
```

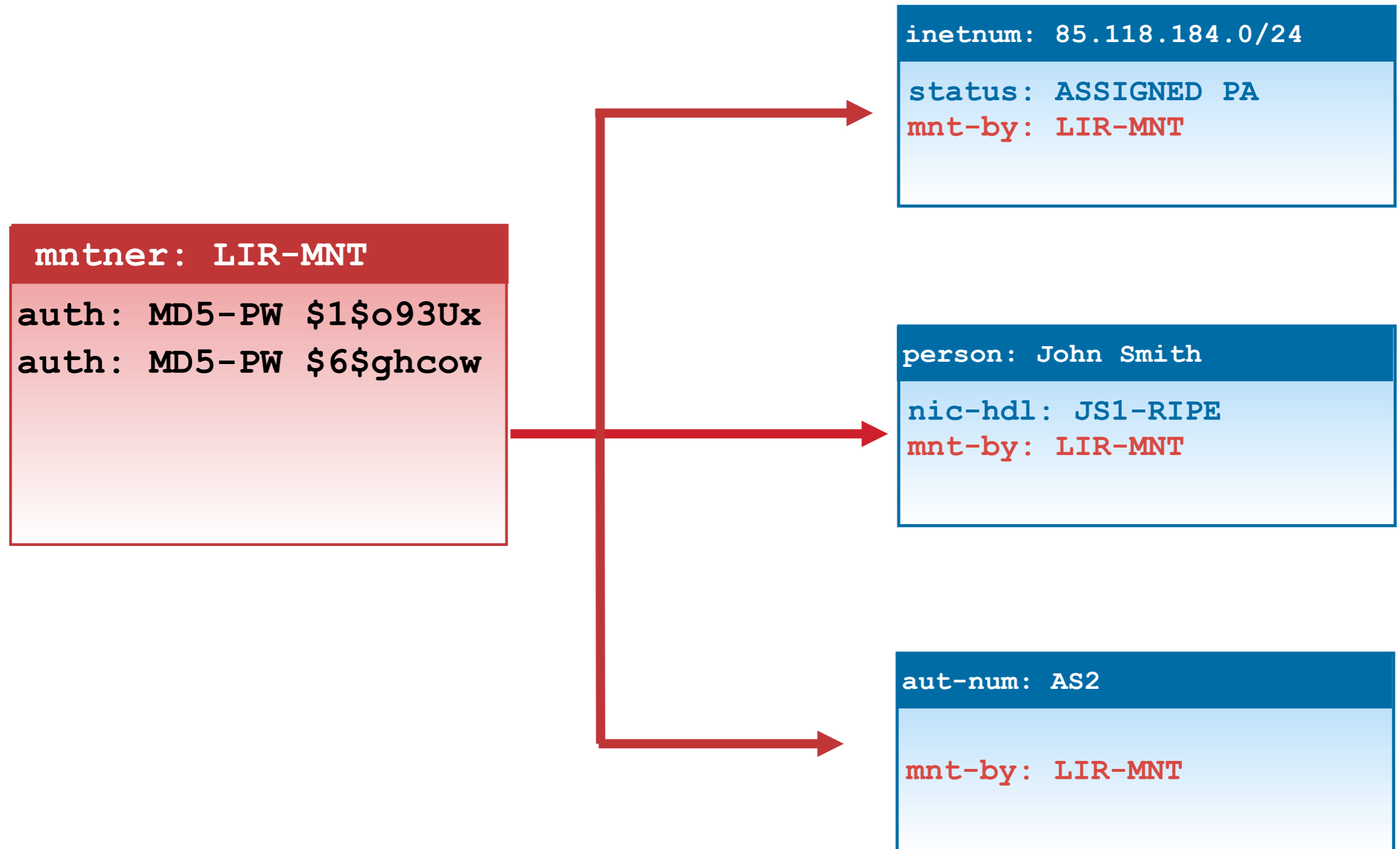
```
person: John Smith
```

```
nic-hdl: JS1-RIPE  
mnt-by: LIR-MNT
```

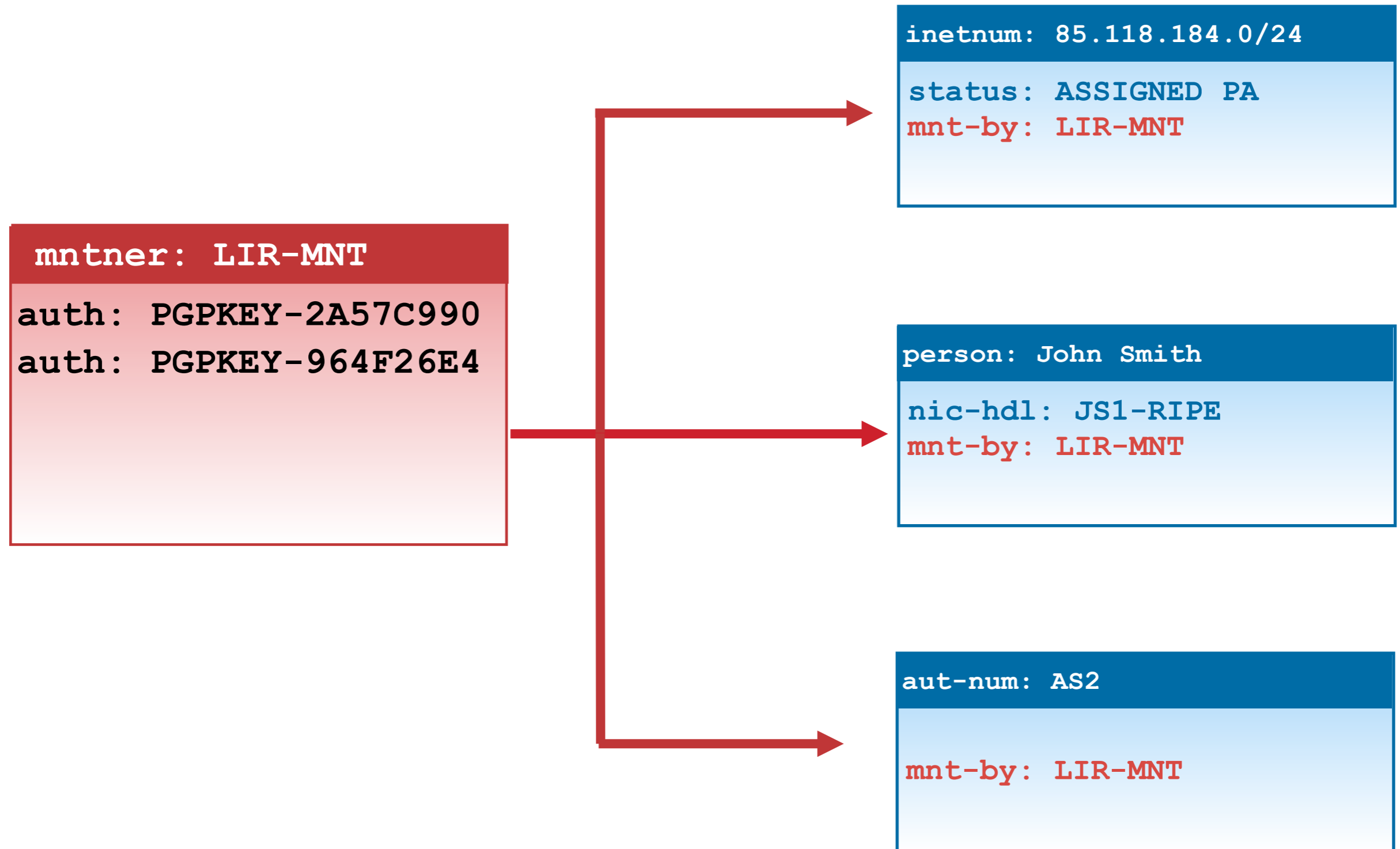
```
aut-num: AS2
```

```
mnt-by: LIR-MNT
```

Using Multiple Passwords



Using Multiple PGP keys



Multiple Maintainers

```
mntner: ONE-MNT
```

```
auth: MD5-PW $1$3SG9WPD
```

```
auth: PGPKEY-AE6FBBF7
```

```
mntner: TWO-MNT
```

```
auth: MD5-PW $1$o93UxR
```

```
person: John Smith
```

```
nic-hdl: JS1-RIPE
```

```
mnt-by: ONE-MNT
```

```
mnt-by: TWO-MNT
```



Questions?



Updating the RIPE DB


Webupdates Interface

You are here: [Home](#) > [Data & Tools](#) > [RIPE Database](#) > [Webupdates](#)

RIPE Database Webupdates

Select the type and the source of the object you want to create

Create Object

Object type: 

Source Database: RIPE Database RIPE TEST Database 

Operation: Create object by individual fields
 Create object in single text area

Create

Note

If your organisation does not have a *mntner* object yet, you need to use the [New Organisation Startup](#) form.

Update

[Create an object](#) 

[Modify or delete an object](#) 

[Quick update](#)

[Syncupdate](#)


Query

Others

Add passwords

Session passwords

0 stored password(s) 



Create object

Select type of object to be created and the operation format.

Webupdates: Individual Fields

You are here: [Home](#) > [Data & Tools](#) > [RIPE Database](#) > [Webupdates](#)

RIPE Database Webupdates

Create a new **PERSON** object

Object data

person	<input type="text" value="James Example"/>	<input type="button" value="+"/>	<input type="button" value="?"/>	
address	<input type="text" value="Singel 258, 1016 AB, Amsterdam, The Netherlands"/>	<input checked="" type="button" value="✓"/>	<input type="button" value="+"/>	<input type="button" value="?"/>
phone	<input type="text" value="+31 20 535 4444"/>	<input checked="" type="button" value="✓"/>	<input type="button" value="+"/>	<input type="button" value="?"/>
nic-hdl	<input type="text" value="auto-1"/>	<input type="button" value="+"/>	<input type="button" value="?"/>	
mnt-by	<input type="text" value="Example-mnt"/>	<input checked="" type="button" value="✓"/>	<input type="button" value="+"/>	<input type="button" value="?"/>
changed	<input type="text" value="jamese@bluelight.ripe.net"/>	<input checked="" type="button" value="✓"/>	<input type="button" value="+"/>	<input type="button" value="?"/>
source	<input type="text" value="RIPE"/>	<input type="button" value="+"/>	<input type="button" value="?"/>	

By submitting this form you explicitly express your agreement with the [RIPE Database Terms and Conditions](#)

Update

[Create an object](#) >

[Modify or delete an object](#) >

[Quick update](#) >

[Syncupdate](#)

Query

Others

Add passwords

Session passwords

0 stored password(s)

Create Objects

This form allows a user to create an object by adding values to the fields shown. Additional fields may be added and some fields may be deleted where indicated.

Webupdates: Single Text Area

You are here: [Home](#) > [Data & Tools](#) > [RIPE Database](#) > [Webupdates](#)

RIPE Database Webupdates

Create a new **PERSON** object

Object data

```
PERSON:      James Example
ADDRESS:     Singel 258, 1016 AB Amsterdam, The Netherlands
PHONE:       +31 20 535 4444
fax-no:      +31 20 535 4445
e-mail:      jamese@bluelight.ripe.net
org:         ORG-Bb2-RIPE
NIC-HDL:     auto-1
remarks:     this is an example
notify:      jamese@bluelight.ripe.net
abuse-mailbox: abuse@bluelight.ripe.net
MNT-BY:      Example-mnt
CHANGED:     jamese@bluelight.ripe.net
SOURCE:      RIPE
```

By submitting this form you explicitly express your agreement with the [RIPE Database Terms and Conditions](#)

Cancel

Create

Update

Create an object >

Modify or delete an object >

Quick update >

Syncupdate >

Query

Others

Add passwords

Session passwords

0 stored password(s)

..... +

RIPE Database

Create RPSL Object

The mandatory attributes in a template are shown in upper case for convenience. The final submission to the database is case insensitive. Any optional attributes not required must be removed. Blank values (except for remarks) will cause errors.

Questions?



10ff 198.
:bf98:3080.
98.51.100.14.
:cb00:13be20
:19f2:80::1 198
d:2209:bc:80r
:db8::109b
08 51.

Querying the RIPE DB


Querying the RIPE DB

- Command-line client
- Web interface
- Full text search

Query Web Interface


RIPE Database Query

Search details:

You can specify up to five comma separated terms: 


By pressing the "Search" button you explicitly express your agreement with the [RIPE Database Terms and Conditions](#).

Sources | Types | Flags | Inverse lookup

RIR Databases 

RIPE Database RIPE TEST Database

or

Global Resource Service beta 


RIPE-GRS AFRINIC-GRS APNIC-GRS ARIN-GRS LACNIC-GRS

JPIRR-GRS RADB-GRS All

Query With -B Flag

RIPE Database Query

Search details:

You can specify up to five comma separated terms: 

By pressing the "Search" button you explicitly express your agreement with the [RIPE Database Terms and Conditions](#).

Sources Types **Flags** Inverse lookup

Learn more about RIPE Database queries using primary and lookup keys

- B - Show full object details.
- C - Disable the default return of IRT objects.
- d - Return IP address, route and reverse domain data with -m,-M,-x,-l,-L flags.
- G - Turn off logical grouping of objects and list objects according to type.
- l - Return first-level less specific inet(6)num, route(6) or domain objects, excluding exact match.
- L - Return all less specific inet(6)num, route(6) or domain objects, including exact match.

Query Result


```
inetnum:      85.118.184.0 - 85.118.191.255
descr:        We want more Bluelight B.V
netname:      NL-BLUELIGHT-20050428
country:      NL
org:          ORG-Bb2-RIPE
admin-c:      BN649-RIPE
tech-c:       BLUE-RIPE
status:       ALLOCATED PA
remarks:      Used only as an educational example
remarks:      by Training Services of RIPE NCC
remarks:      during LIR Training Courses
remarks:      *****
mnt-by:       RIPE-NCC-HM-MNT
mnt-lower:    BLUELIGHT-MNT
mnt-routes:   BLUELIGHT-MNT
mnt-domains:  BLUELIGHT-MNT
notify:       user@bluelight.ripe.nl
notify:       user1@bluelight.nl
notify:       user@bluelight.nl
notify:       bit-bucket@ripe.net
changed:      bit-bucket@ripe.net 20110801
changed:      bit-bucket@ripe.net 20110801
changed:      bit-bucket@ripe.net 20110801
changed:      bit-bucket@ripe.net 20110801
changed:      hostmaster@ripe.net 20110804
changed:      bit-bucket@ripe.net 20110916
source:       RIPE
```

Object Templates

- To get the empty template for any object type, query with the 't' flag

RIPE Database Query

Search details:

You can specify up to five comma separated terms: 

-t person|

By pressing the "Search" button you explicitly express your agreement with the [RIPE Database Terms and Conditions](#).

Search

Sources Types Flags Inverse lookup

Person Object Template

```
person:          [mandatory] [single] [lookup key]
address:        [mandatory] [multiple] [ ]
phone:          [mandatory] [multiple] [ ]
fax-no:         [optional] [multiple] [ ]
e-mail:         [optional] [multiple] [lookup key]
org:            [optional] [multiple] [inverse key]
nic-hdl:        [mandatory] [single] [primary/look-up key]
remarks:        [optional] [multiple] [ ]
notify:         [optional] [multiple] [inverse key]
abuse-mailbox:  [optional] [multiple] [inverse key]
mnt-by:         [mandatory] [multiple] [inverse key]
changed:        [mandatory] [multiple] [ ]
source:         [mandatory] [single] [ ]
```

Lookup Keys

```
person:      James Example
address:     Singel 258
address:     1016 AB Amsterdam
phone:       +31 20 535 4444
fax:         +31 20 535 4445
email:       jamese@example.org
org:         ORG-Bb2-RIPE
nic-hdl:     JE1787-RIPE
mnt-by:     LIR-MNT
source:      RIPE
```

LOOKUP KEYS



Full Text Search

Full Text Search

RIPE Database text search:

By pressing the "Search" button you explicitly express your agreement with the [RIPE Database Terms and Conditions](#).

[Advanced Search](#)

Search

Search results

This is the RIPE Database full text search service.
The RIPE Database is subject to Terms and Conditions.
See <http://www.ripe.net/db/support/db-terms-conditions.pdf>

1 2 3 4

[aut-num: AS65534](#)

as-name=BLUELIGHT, mnt-routes=BLUELIGHT-MNT, mnt-by=RIPE-NCC-HM-MNT BLUELIGHT-MNT, descr=nl.bluelight

[domain: bluelight.mc](#)

domain=bluelight.mc

[domain: 210.149.82.in-addr.arpa](#)

descr=Reverse delegation for Bluelight 2nd/24

[domain: 205.149.82.in-addr.arpa](#)

descr=Reverse delegation for Bluelight 2nd/24

[domain: 185.118.85.in-addr.arpa](#)

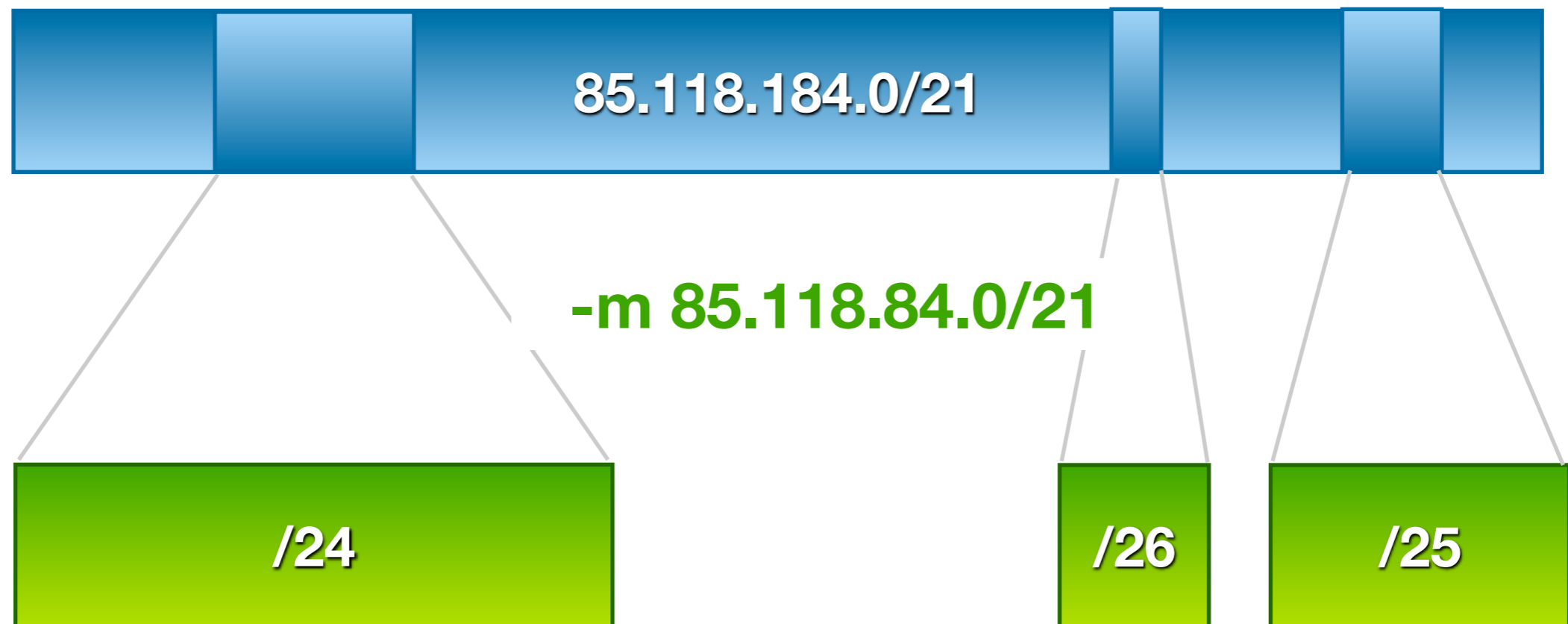
mnt-by=bluelight-mnt RIPE-DNS-MNT, descr=reverse for bluelight

Questions?

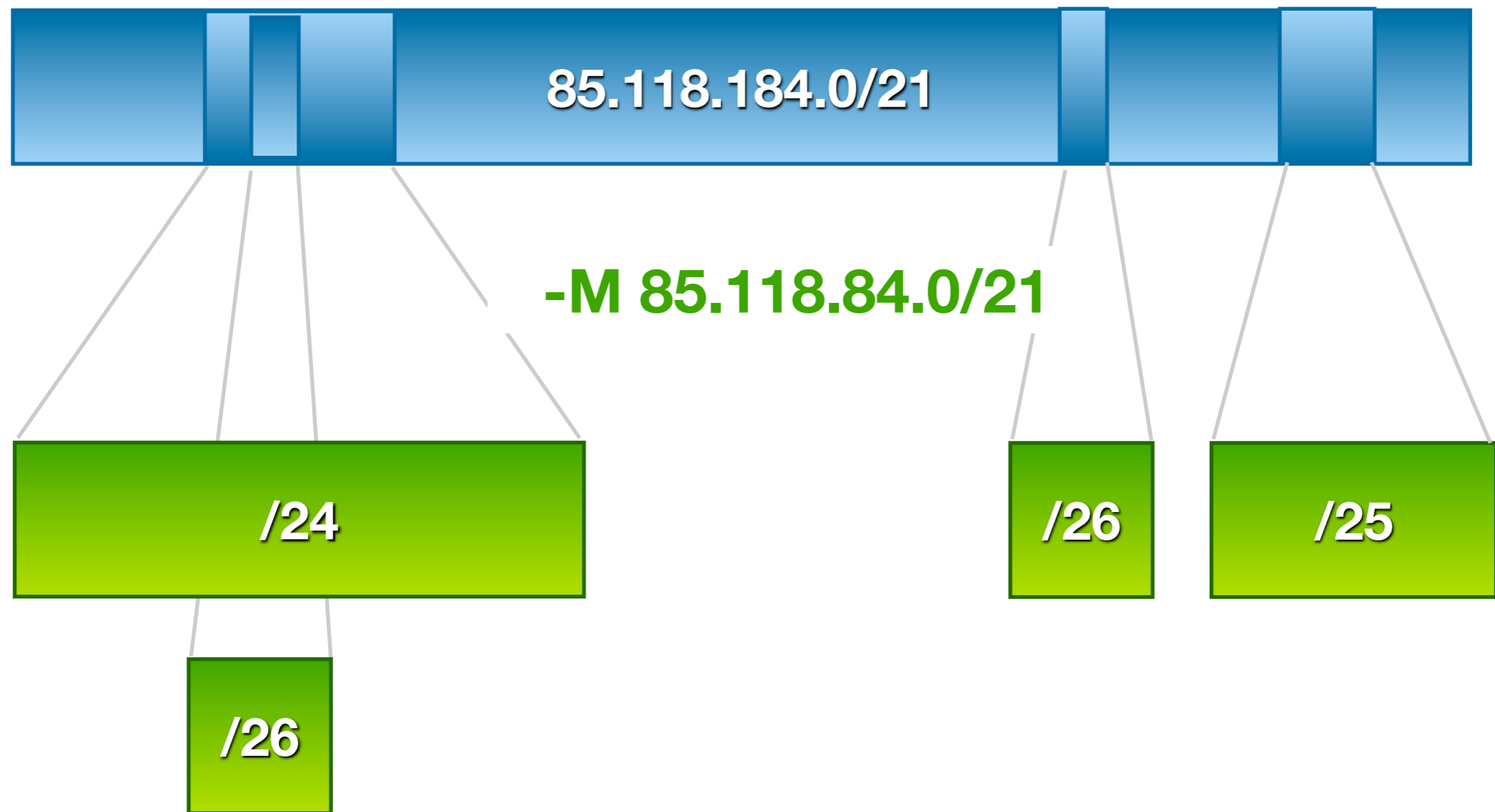


Querying With Flags

More Specific Inetnums: -m



More Specific Inetnums: -M

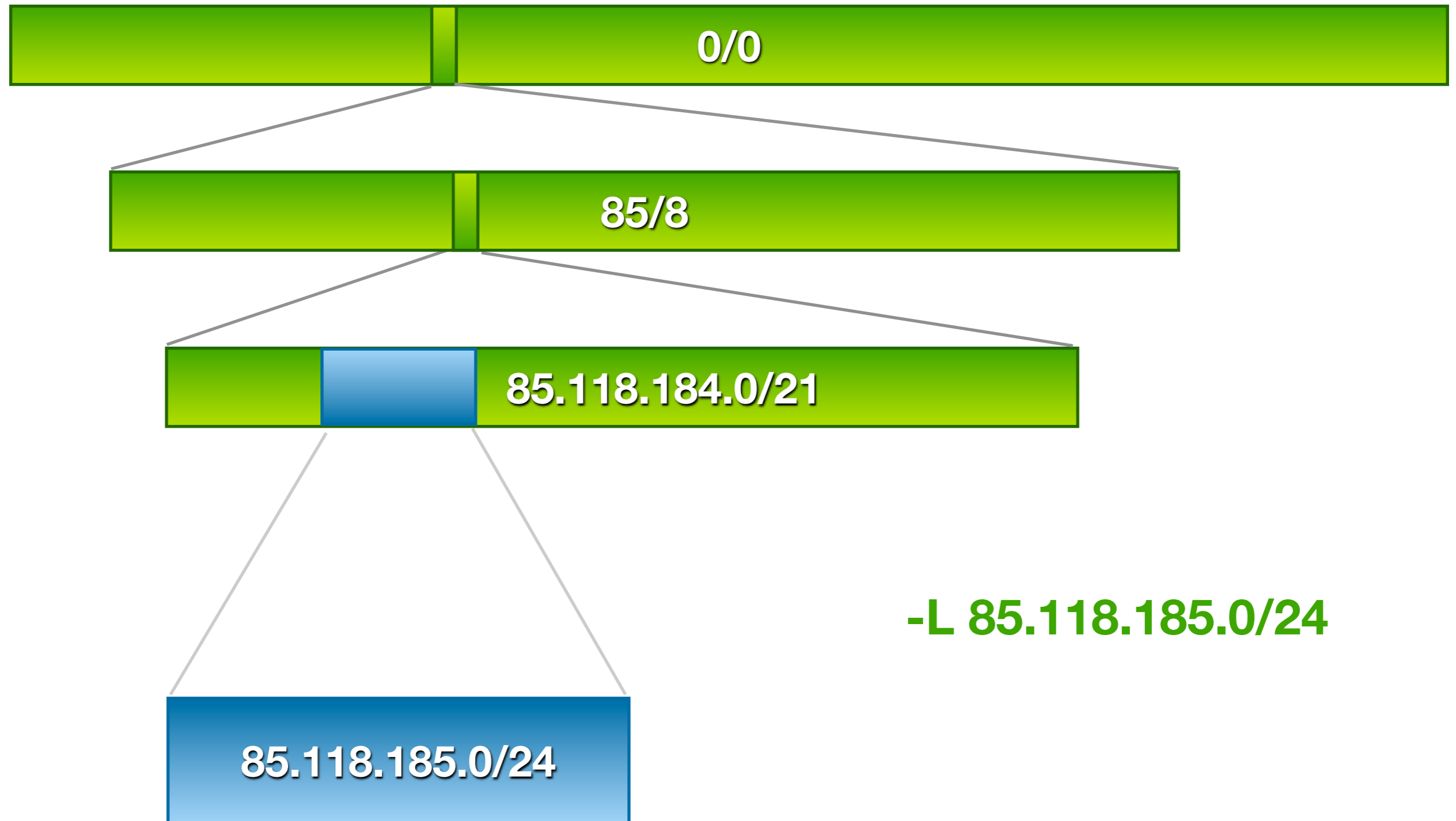


Less Specific Inetnums: -I



-I 85.118.185.0/24

Less Specific Inetnums: -L



Other Flags

- **-r**
 - don't show referenced person and role objects
- **-T**
 - only show objects of this type
 - example `-T inetnum`
- **-G**
 - group same type objects together

Questions?



Inverse Lookup


Inverse Lookup

- Finding all objects that that list/point to your object

Inverse Lookup

RIPE Database Query

Search details:

You can specify up to five comma separated terms: 

JD1-RIPE

By pressing the "Search" button you explicitly express your agreement with the [RIPE Database Terms and Conditions](#).

Sources Types Flags **Inverse lookup**

Learn more about RIPE Database queries using inverse lookup keys

<input type="checkbox"/> abuse-mailbox	<input type="checkbox"/> admin-c	<input type="checkbox"/> auth	<input type="checkbox"/> author	<input type="checkbox"/> fingerpr	<input type="checkbox"/> form
<input type="checkbox"/> irt-nfy	<input type="checkbox"/> local-as	<input type="checkbox"/> mbrs-by-ref	<input type="checkbox"/> member-of	<input type="checkbox"/> mnt-by	<input type="checkbox"/> mnt-domains
<input type="checkbox"/> mnt-irt	<input type="checkbox"/> mnt-lower	<input type="checkbox"/> mnt-nfy	<input type="checkbox"/> mnt-ref	<input type="checkbox"/> mnt-routes	<input type="checkbox"/> notify
<input type="checkbox"/> nserver	<input type="checkbox"/> org	<input type="checkbox"/> origin	<input checked="" type="checkbox"/> person	<input type="checkbox"/> ping-hdl	<input type="checkbox"/> referral-by
<input type="checkbox"/> ref-nfy	<input type="checkbox"/> sub-dom	<input type="checkbox"/> tech-c	<input type="checkbox"/> upd-to	<input type="checkbox"/> zone-c	

Inverse Lookup: admin-c

```
inet6num: 2001:db8::/32
descr: My IPv6 Range
mnt-by: RIPE-NCC-HM-MNT
mnt-lower: LIR-MNT
mnt-routes: LIR-MNT
org: ORG-BB2-RIPE
admin-c: JE777-RIPE
tech-c: JD1-RIPE
```

```
aut-num: 64551
descr: My AS Number
mnt-by: RIPE-NCC-END-MNT
mnt-by: LIR-MNT
org: ORG-BB2-RIPE
admin-c: JD1-RIPE
tech-c: LA789-RIPE
```

```
mntner: LIR-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
abuse-mailbox: abuse@example.org
auth: MD5-PW $tst^89H$
```

```
role: Bluelight Staff
nic-hdl: BLS77-RIPE
admin-c: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
e-mail: john@example.org
```

-i admin-c JD1-RIPE

```
person: John Doe
nic-hdl: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
e-mail: john@example.org
mnt-by: LIR-MNT
```

Inverse Lookup: person

inet6num: 2001:db8::/32

descr: My IPv6 Range
mnt-by: RIPE-NCC-HM-MNT
mnt-lower: LIR-MNT
mnt-routes: LIR-MNT
org: ORG-BB2-RIPE
admin-c: JE777-RIPE
tech-c: JD1-RIPE

aut-num: 64551

descr: My AS Number
mnt-by: RIPE-NCC-END-MNT
mnt-by: LIR-MNT
org: ORG-BB2-RIPE
tech-c: JD1-RIPE
tech-c: LA789-RIPE

mntner: LIR-MNT

admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
abuse-mailbox: abuse@example.org
auth: MD5-PW \$tst^89H\$

role: Bluelight Staff

nic-hdl: BLS77-RIPE
admin-c: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
e-mail: john@example.org

-i person JD1-RIPE

person: John Doe

nic-hdl: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
e-mail: john@example.org
mnt-by: LIR-MNT

Inverse Lookup: mnt-by

```
inet6num: 2001:db8::/32
descr: My IPv6 Range
mnt-by: RIPE-NCC-HM-MNT
mnt-lower: LIR-MNT
mnt-routes: LIR-MNT
org: ORG-BB2-RIPE
admin-c: JE777-RIPE
tech-c: JD1-RIPE
```

```
aut-num: 64551
descr: My AS Number
mnt-by: RIPE-NCC-END-MNT
mnt-by: LIR-MNT
org: ORG-BB2-RIPE
admin-c: JD1-RIPE
tech-c: LA789-RIPE
```

```
person: John Doe
nic-hdl: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
e-mail: john@example.org
mnt-by: LIR-MNT
```

```
role: Bluelight Staff
nic-hdl: BLS77-RIPE
admin-c: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
mnt-by: LIR-MNT
```

-i mnt-by LIR-MNT

```
mntner: LIR-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-notify: list@example.org
abuse-mailbox: abuse@example.org
auth: MD5-PW $tst^89H$
```

Inverse Lookup: mnt-ref

inet6num: 2001:db8::/32

descr: My IPv6 Range
mnt-by: RIPE-NCC-HM-MNT
mnt-lower: LIR-MNT
mnt-routes: SECOND-MNT
org: ORG-BB2-RIPE
admin-c: JD1-RIPE
tech-c: LA789-RIPE

aut-num: 64551

descr: My AS Number
mnt-by: RIPE-NCC-END-MNT
mnt-by: LIR-MNT
org: ORG-BB2-RIPE
admin-c: JD1-RIPE
tech-c: LA789-RIPE

person: John Doe

nic-hdl: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
e-mail: john@example.org
mnt-by: LIR-MNT

role: Bluelight Staff

nic-hdl: BLS77-RIPE
admin-c: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
mnt-by: LIR-MNT

-i mnt-ref LIR-MNT

mntner: LIR-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-notify: list@example.org
abuse-mailbox: abuse@example.org
auth: MD5-PW \$tst^89H\$

Questions?



New Developments

RESTful API

- Newly developed
- Query service released September 2011
- Update service currently in beta
 - Planned to be released later this year
- Uses XML or JSON
 - Plain html currently available for testing, this will be removed later on!
- Details on <http://labs.ripe.net>

Geolocation (beta)

- Geolocation services are provided by third parties, the RIPE NCC has no control over it
- Wrong geolocation data can cause problems:
 - Websites default to the wrong language
 - Location based content is blocked
- Transfers will only make this worse
- **Optionally** adding this information to the RIPE Database:
 - Approximate location
 - Preferred language

Questions?



Practical Scenario 1

Changing the Password Of a Maintainer

Maintainer

```
mntner:          LIR-MNT
admin-c:         JD1-RIPE
tech-c:          LA789-RIPE
auth:            MD5-PW $tst^89H$
mnt-by:          LIR-MNT
notify:          noc@example.org
mnt-nfy:         list@example.org
abuse-mailbox:  abuse@example.org
source:          RIPE
```

This maintainer is
protecting itself

Maintainer Protecting other Objects

```
mntner:          LIR-MNT

admin-c:         JE1787-RIPE
tech-c:          LA789-RIPE
auth:            MD5-PW $tst^89H$
mnt-by:          LIR-MNT
notify:          noc@example.org
mnt-nfy:         list@example.org
abuse-mailbox:  abuse@example.org
source:          RIPE
```

This maintainer is protecting itself...

...and the role object

```
role:            EXCC Tech Staff

address:         Singel 258
address:         1016 AB Amsterdam
phone:           +31 20 535 4444
email:           tech@example.org
nic-hdl:         LA789-RIPE
admin-c:         JD1-RIPE
mnt-by:          LIR-MNT
source:          RIPE
```

The Maintainer With its Old Password

```
mntner:          LIR-MNT

admin-c:         JE1787-RIPE
tech-c:          LA789-RIPE
auth:            MD5-PW $tst^89H$
mnt-by:          LIR-MNT
notify:          noc@example.org
mnt-nfy:         list@example.org
abuse-mailbox:   abuse@example.org
source:          RIPE
```

Password: **secret35**



Hashed password: **\$tst^89H\$**



You Want to Change this Password

```
mntner:          LIR-MNT
admin-c:         JE1787-RIPE
tech-c:          LA789-RIPE
auth:            MD5-PW $tst^89H$
mnt-by:          LIR-MNT
notify:          noc@example.org
mnt-nfy:         list@example.org
abuse-mailbox:  abuse@example.org
source:          RIPE
```

Password: **secret35**

Hashed password: **\$tst^89H\$**

- Now let's say you want to change the password
 - from 'secret35'
 - to 'tiger72'

Hash the New Password

RIPE Database Authorisation Password Generator

The MD5-PW hash has been generated

Generate MD5-PW

Password:

tiger72



Generated MD5-PW:

\$1\$cArJD0



It is advisable to test your new password with the Verify form below.

Generate

<https://apps.db.ripe.net/crypt/>

Add a New, Second auth Line

mntner: LIR-MNT

admin-c: JE1787-RIPE
tech-c: LA789-RIPE
auth: MD5-PW \$tst^89H\$
auth: MD5-PW \$1\$cArJD0
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
abuse-mailbox: abuse@example.org
source: RIPE

Add passwords

Session passwords

0 stored password(s)



Secret35




authenticate with the old password

Remove Old auth Line

mntner: **LIR-MNT**

```
admin-c: JD1-RIPE
tech-c: LA789-RIPE
auth: MD5-PW $1$cArJD0
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
abuse-mailbox: abuse@example.org
source: RIPE
```



Add passwords

Session passwords

0 stored password(s)



tiger72



authenticate with the
new password

- Voilà, you have changed the password of the mntner!

The Maintainer with its New Password

```
mntner:          LIR-MNT

admin-c:         JD1-RIPE
tech-c:          LA789-RIPE
auth:            MD5-PW $1$cArJD0
mnt-by:          LIR-MNT
notify:          noc@example.org
mnt-nfy:         list@example.org
abuse-mailbox:  abuse@example.org
source:          RIPE
```

Password: tiger72



Hashed password: \$1\$cArJD0



Forgot Your Maintainers' Password?

- Request us to reset it!
 - <https://apps.db.ripe.net/change-auth/>

Request to Change Authorisation of my MNTNER Object

Changing your MNTNER object password is a three-step process:

Step 1: Fill out details online to generate a request form. A ticket number will be emailed to you.

Step 2: Print the request form (PDF) on company letter-headed paper, sign all pages and scan it.

Step 3: Email the signed form to ripe-dbm@ripe.net and include the ticket number in the subject line.

Search Object

MNTNER name:

Search

Practical Scenario 2

Replacing the Maintainer
Protecting Your Object



Finding All Objects Protected by the Maintainer

- You want to find all objects that are protected by the maintner
- **-i mnt-by LIR-MNT**

Replacing the Maintainer: the Original Situation

```
role: EXCC Tech Staff
address: Singel 258
address: 1016 AB Amsterdam
phone: +31 20 535 4444
email: tech@example.org
nic-hdl: LA789-RIPE
admin-c: JD1-RIPE
mnt-by: LIR-MNT
source: RIPE
```

```
mntner: LIR-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
auth: MD5-PW $1$cArJD0
```

Password: tiger72

Hashed password: \$1\$cArJD0

Replacing the Maintainer: Add 2nd Maintainer

```
role: EXCC Tech Staff
address: Singel 258
address: 1016 AB Amsterdam
phone: +31 20 535 4444
email: tech@example.org
nic-hdl: LA789-RIPE
admin-c: JD1-RIPE
mnt-by: LIR-MNT
mnt-by: ABC-MNT
source: RIPE
```

```
mntner: LIR-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
auth: MD5-PW $1$cArJD0
```

```
mntner: ABC-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
auth: MD5-PW $1$koW45a
```

Add passwords

Session passwords

0 stored password(s)

tiger72

Password: mouse881

Hashed password: \$1\$koW45a


Remove the Original Maintainer


```
role: EXCC Tech Staff
address: Singel 258
address: 1016 AB Amsterdam
phone: +31 20 535 4444
email: tech@example.org
nic-hdl: LA789-RIPE
admin-c: JD1-RIPE
mnt-by: ABC-MNT
source: RIPE
```

```
mntner: ABC-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
notify: noc@example.org
mnt-nfy: list@example.org
auth: MD5-PW $1$koW45a
```

Add passwords

Session passwords

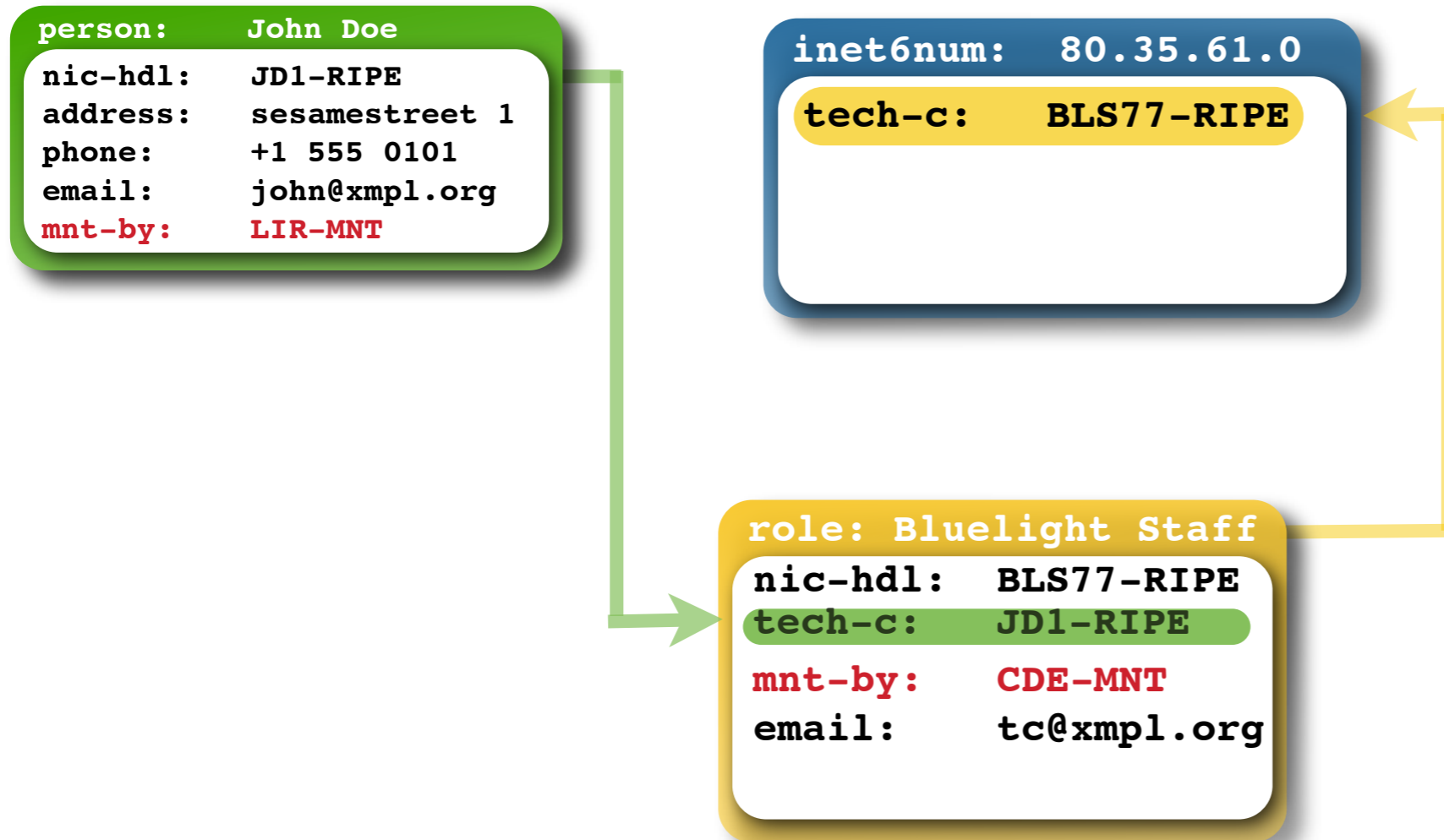
0 stored password(s) 



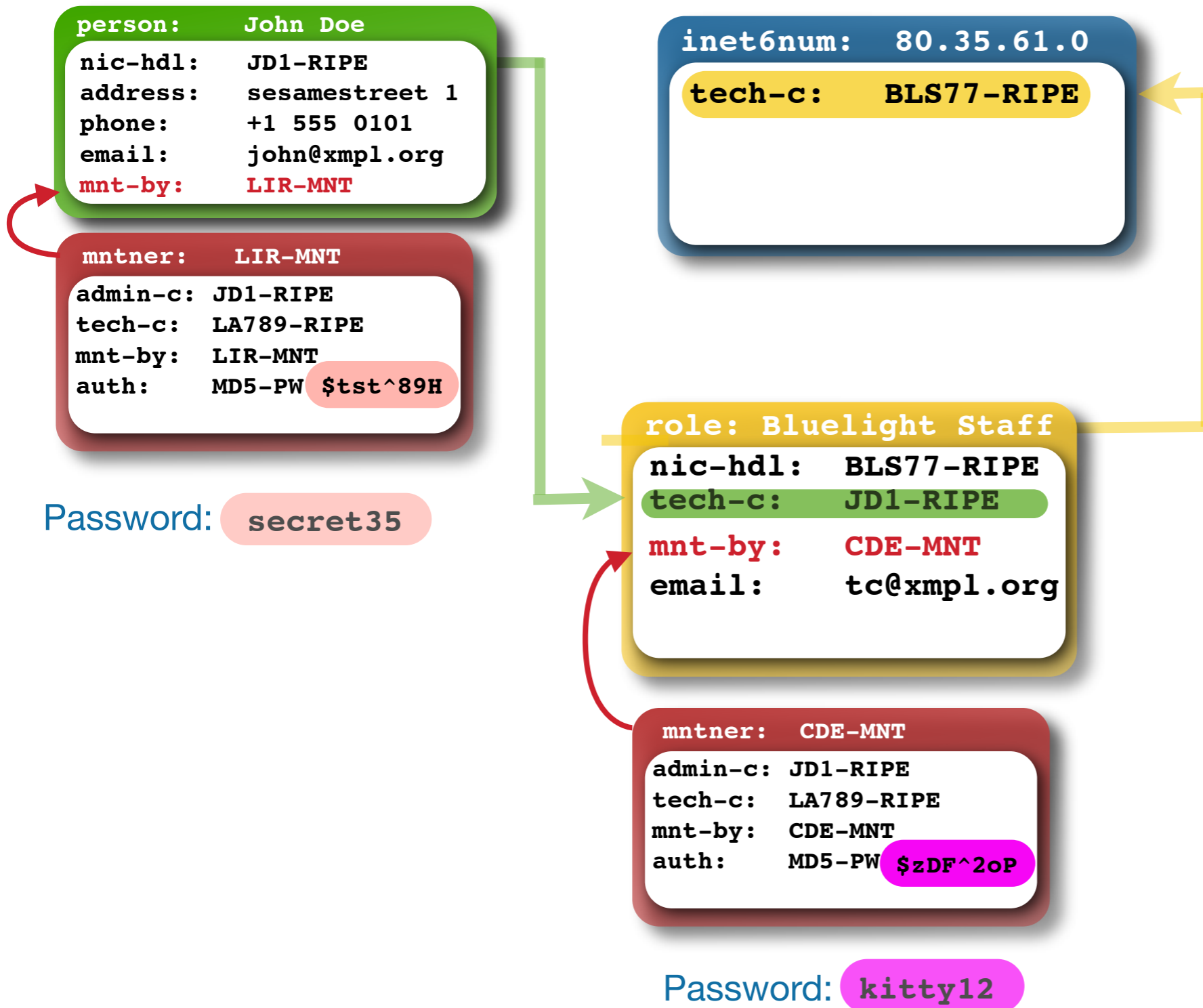
Practical Scenario 3

Replacing the Contact Person

Using a Role Object: Original Situation



Original Situation with Maintainers



Add a Second Person to the Role Object

```
person: John Doe
nic-hdl: JD1-RIPE
address: sesamestreet 1
phone: +1 555 0101
email: john@xmpl.org
mnt-by: LIR-MNT
```

```
mntner: LIR-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: LIR-MNT
auth: MD5-PW $tst^89H
```

```
person: James Smith
nic-hdl: JS123-RIPE
address: Dam Square 1
phone: +31 535 7111
e-mail: js@xmpl.org
mnt-by: ABC-MNT
```

```
mntner: ABC-MNT
admin-c: JS123-RIPE
tech-c: LA789-RIPE
mnt-by: ABC-MNT
auth: MD5-PW $1$cAr0J
```

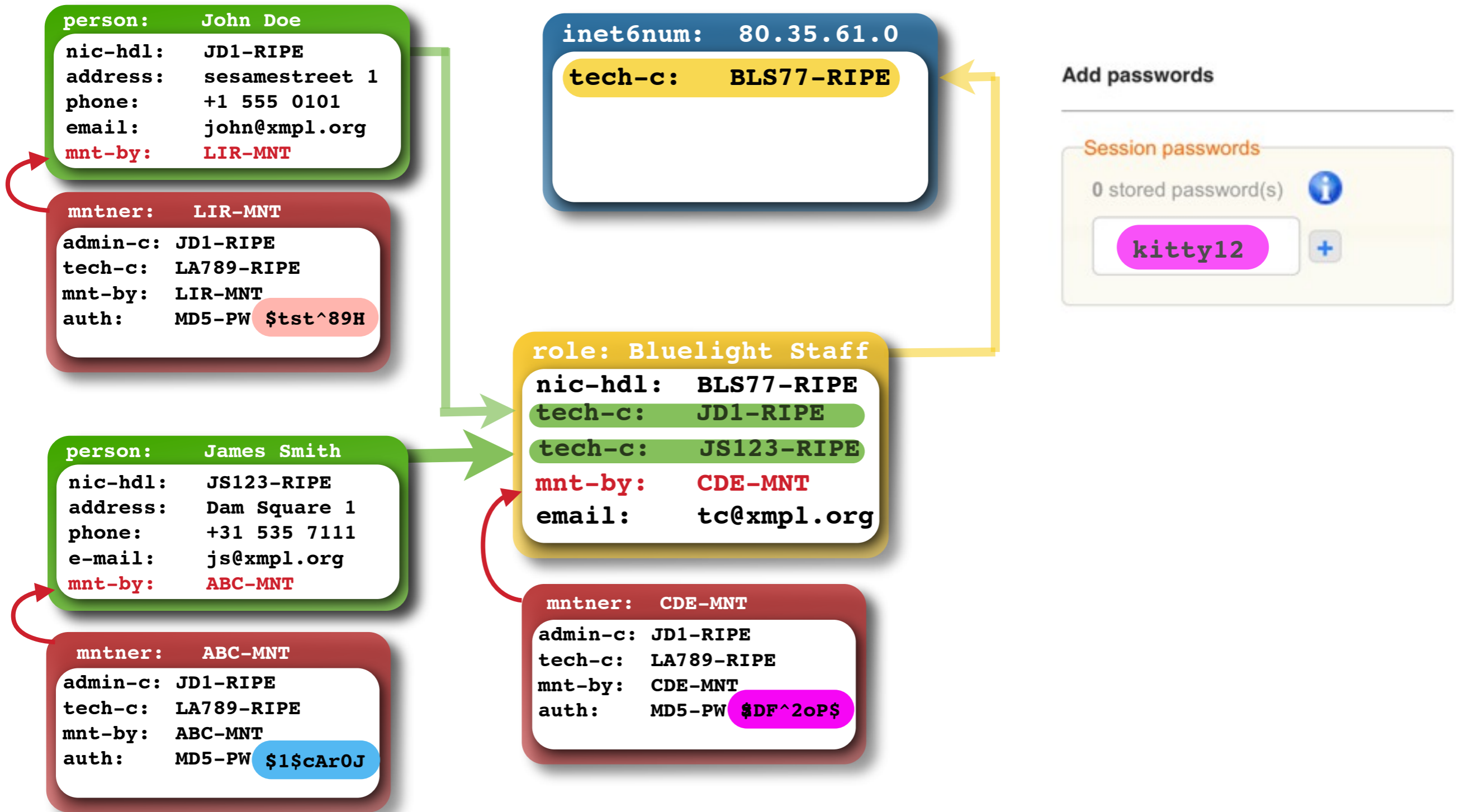
Password: tiger72

```
inet6num: 80.35.61.0
tech-c: BLS77-RIPE
```

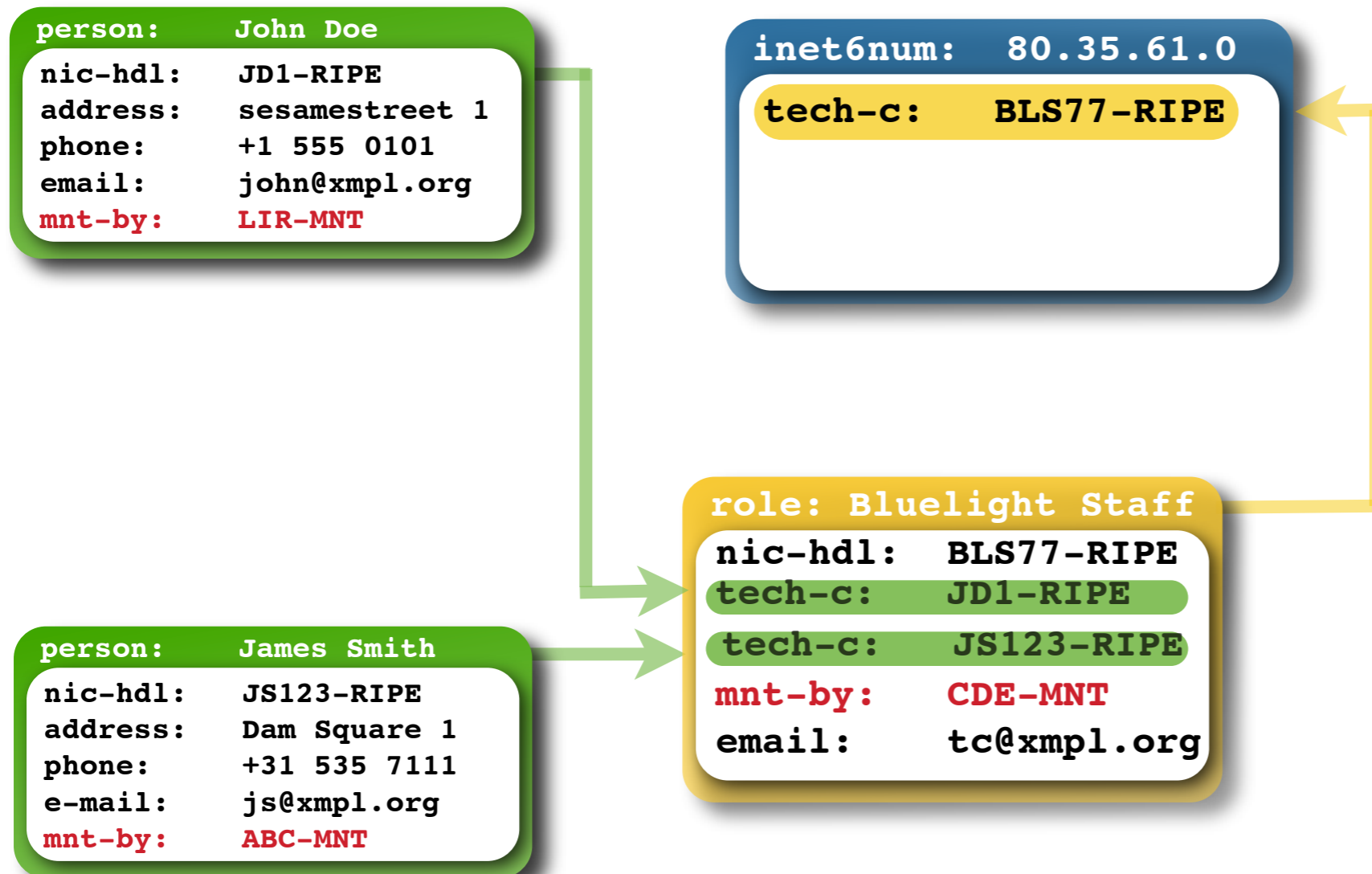
```
role: Bluelight Staff
nic-hdl: BLS77-RIPE
tech-c: JD1-RIPE
mnt-by: CDE-MNT
email: tc@xmpl.org
```

```
mntner: CDE-MNT
admin-c: JD1-RIPE
tech-c: LA789-RIPE
mnt-by: CDE-MNT
auth: MD5-PW $DF^2oP$
```

Adding the Second Person Object



New Situation: Two Contacts



Questions?



The End!

Край

Y Diwedd

النهاية

Соңы

ჟღერა

Fí

Finis

Ende

Finvezh

Liðugt

Кінець

Konec

Kraj

Ěnn

Fund

پایان

Lõpp

Beigas

Vége

Son

Край

An Críoch

הסוף

Fine

Endir

Sfârșit

Fin

Τέλος

Einde

Конец

Slut

Slutt

დასასრული

Pabaiga

Fim

Амаиа

Loppu

Tmíem

Koniec