Today’s short introduction is about the mini-Internet project

1. Why the matrix has many orange cells

2. How to use route-maps

3. Activation of Question 3.1
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1. Why the matrix has many orange cells

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Incorrect paths are assessed from the control plane, not the data plane

A cell is orange from AS X to AS Y if:

AS X learns an incorrect path from at least one of its eBGP neighbour for Y/8
Incorrect paths are assessed from the control plane, not the data plane

A cell is orange from AS X to AS Y if:

AS X learns an incorrect path from at least one of its eBGP neighbour for Y/8

This means even if the incorrect path is just a backup path, the cell is orange
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Route-maps can be compared to If...Else... statements

route-map MY_CHAIN permit 10
    match ip address prefix-list MY_PREFIX
    set community 10:30

route-map MY_CHAIN permit 20
    match rpki valid
    set local-preference 100
Route-maps can be compared to If…Else… statements

route-map MY_CHAIN permit 10
  match ip address prefix-list MY_PREFIX
  set community 10:30

if route is for prefix-list MY_PREFIX
  permit route
  set community 10:30

route-map MY_CHAIN permit 20
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Route-maps can be compared to If...Else... statements

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if route is for prefix-list MY_PREFIX
    permit route
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else if route has rpki valid status
    permit route
    set local-preference 100
Route-maps can be compared to If…Else… statements

```
route-map MY_CHAIN permit 10
    match ip address prefix-list MY_PREFIX
    set community 10:30
route-map MY_CHAIN permit 20
    match rpki valid
    set local-preference 100
```

`if route is for prefix-list MY_PREFIX`  
`permit route`  
`set community 10:30`

`else if route has rpki valid status`  
`permit route`  
`set local-preference 100`

`else`  
`deny route`  

`implicit deny`
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Routing project timetable

- **Week 1**
  - Q1.1 - 1.8 Intra-domain routing
  - Project start: 28.03

- **Week 2**
  - Q2.1 - 2.3 Inter-domain routing
  - Connectivity Fest: 07.04

- **Week 3**
  - Easter break
  - Q3.1 active: 14.04

- **Week 4**
  - Q3.2 active: 22.04
  - Q3.3 active: 26.04

- **Week 5**
  - Project end: 29.04
  - Q3.1 - 3.4 Routing security
  - 26.04
Routing project timetable

You can solve the questions outside of the Easter break

- **Q1.1 - 1.8 Intra-domain routing**
  - 28.03 Project start
  - 07.04 Connectivity Fest

- **Q2.1 - 2.3 Inter-domain routing**
  - 14.04 Q3.1 active

- **Easter break**

- **Q3.1 - 3.4 Routing security**
  - 22.04 Q3.2 active
  - 26.04 Q3.3 active
  - 29.04 Project end
Today’s exercises are about BGP
Of course, you can also ask questions about the project