Week 2: Topology and routes

1. Introduction and questions
2. BGP updates
3. **Traceroutes**
   A. Basics
   B. Limits
   C. Load Balancing
   D. **The tool**
4. Conclusion

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$ traceroute www.example.com
traceroute to www.example.com (93.184.216.34), 64 hops max, 52 byte packets
 1  livebox (192.168.1.1)  3.079 ms  5.188 ms  1.411 ms
 2  80.10.237.102 (80.10.237.102)  3.999 ms  137.773 ms  6.387 ms
 3  ncidf104.paris.ft.net (193.253.80.126)  3.849 ms  4.992 ms  3.695 ms
 4  niaub102.lyon.ft.net (193.252.159.46)  13.845 ms  15.477 ms  16.557 ms
 5  193.252.137.70 (193.252.137.70)  15.627 ms  18.621 ms  14.790 ms
 6  tengige0-29.ot.net (193.251.240.179)  20.478 ms  16.633 ms  23.926 ms
 7  telia.gw.ot.net (193.251.248.70)  14.067 ms  34.980 ms  19.455 ms
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 7  telia.gw.ot.net (193.251.248.70)  17.657 ms  21.913 ms  16.441 ms
 8  * * *
 9  * * *
10  dk-ore.nordu.net (109.105.97.136)  126.153 ms  164.046 ms  168.931 ms
```

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 7  telia.gw.ot.net (193.251.248.70)  17.657 ms  21.913 ms  16.441 ms
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7  telia.gw.ot.net (193.251.248.70)  17.657 ms  21.913 ms  16.441 ms
8  ldn-bb3-link.telia.net (80.91.248.217)  27.737 ms
   ldn-bb2-link.telia.net (80.91.246.114)  18.095 ms
   ldn-bb2-link.telia.net (80.91.249.181)  25.971 ms
9  ash-bb4-link.telia.net (62.115.141.92)  98.975 ms
   ash-bb4-link.telia.net (62.115.116.66)  86.646 ms
   nyk-bb1-link.telia.net (62.115.135.96)  83.222 ms
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Traceroute - The tool