

NDN Maps

4th NDN Hackathon

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Map Application on NDN

Why use maps over NDN?

- Exploiting network awareness of locality

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- Namespace design?

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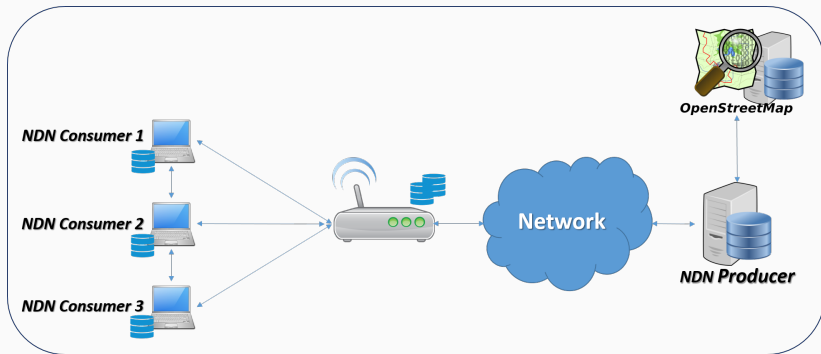
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- Local Forwarding Strategy?

Wireless Ad-hoc Scenario



How OpenStreetMap Works

- Tiles: 256x256px (png)
 - Different Zoom Levels (0-19)
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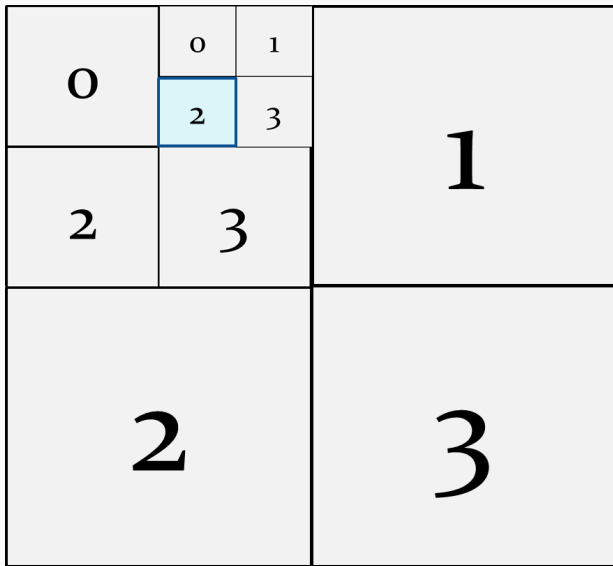


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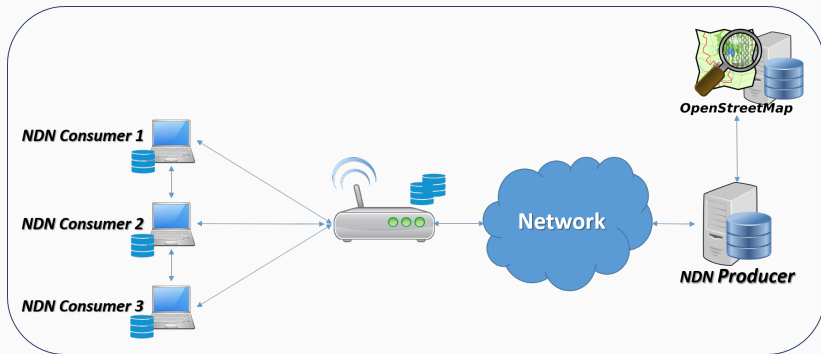
Better Namespace?

- $/\text{maps}/Z_0/Z_1/\dots/Z_n$
- $Z_i = \{ 0, 1, 2, 3 \}$

Namespace Example: /maps/0/1/2



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Consumer: Integrate OSM Display Framework with NDN

- Still work in progress :)

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Maps interesting application for NDN

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Future Work:

- Finishing the Code
- Navigation

The End

Thank you for your attention!

Questions?