Mobility challenges in virtualization environments

draft-bernardos-dmm-mobility-virtualization-00

IETF 115 – DMM WG

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Motivation

• Mobility is no longer restricted to physical end systems roaming among radio points of attachment
• Services can be decomposed into functions that run on virtualized resources, thus becoming virtual functions
• Mobility scenarios:
  1. End-system mobility (traditional scenario)
  2. Physical resource mobility, where a node hosting a virtual function (part of a service being consumed by a end-system) moves
  3. Virtual function mobility, where a part of a service moves (migrates) to a different physical resource
Resource mobility

- Can (P)MIPv6 be used to support this scenario?
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Next steps

● Is there interest on looking on these mobility scenarios and see how IP mobility protocols could be used?

● One example of problem and solution: draft-bernardos-dmm-sfc-mobility-01