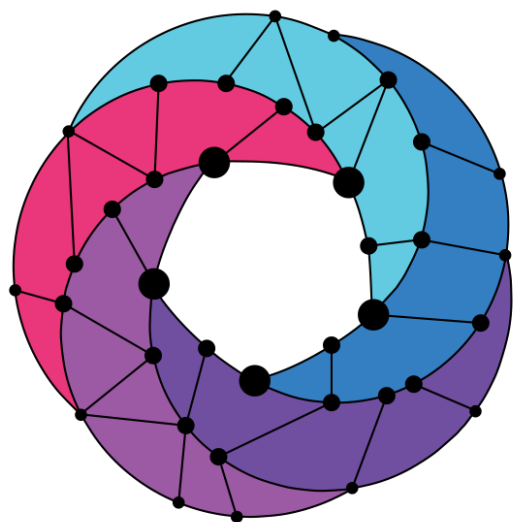




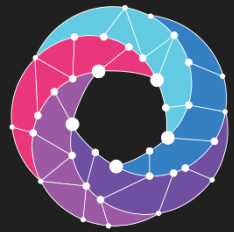
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OSM PoC Proposal
Heimdall Hybrid Web
Orchestrating enterprise web 5G vertical scenario
Eduardo Sousa

PoC Participants

- Instituto de Telecomunicações/Universidade de Aveiro
- Universidade Federal do Rio Grande do Sul
- Wavecom

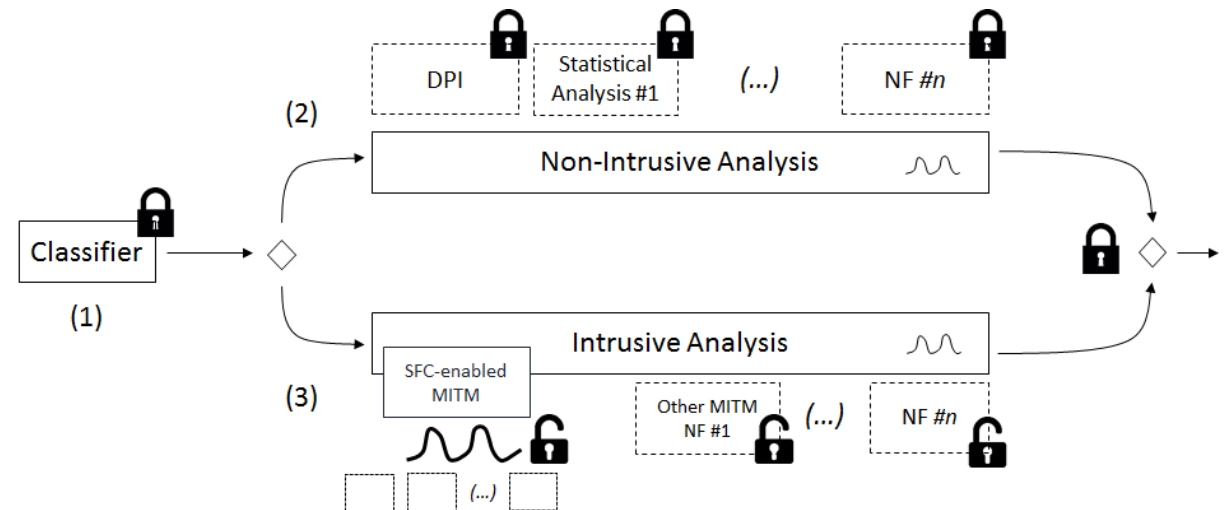




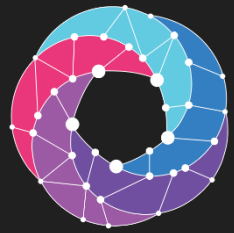
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Objectives

Orchestration of an SFC-enabled SSL/TLS encrypted traffic processing architecture, supporting both cloud and fog deployments, as well as an hybrid mode in which some traffic is offloaded to the fog while the rest is processed in the cloud.



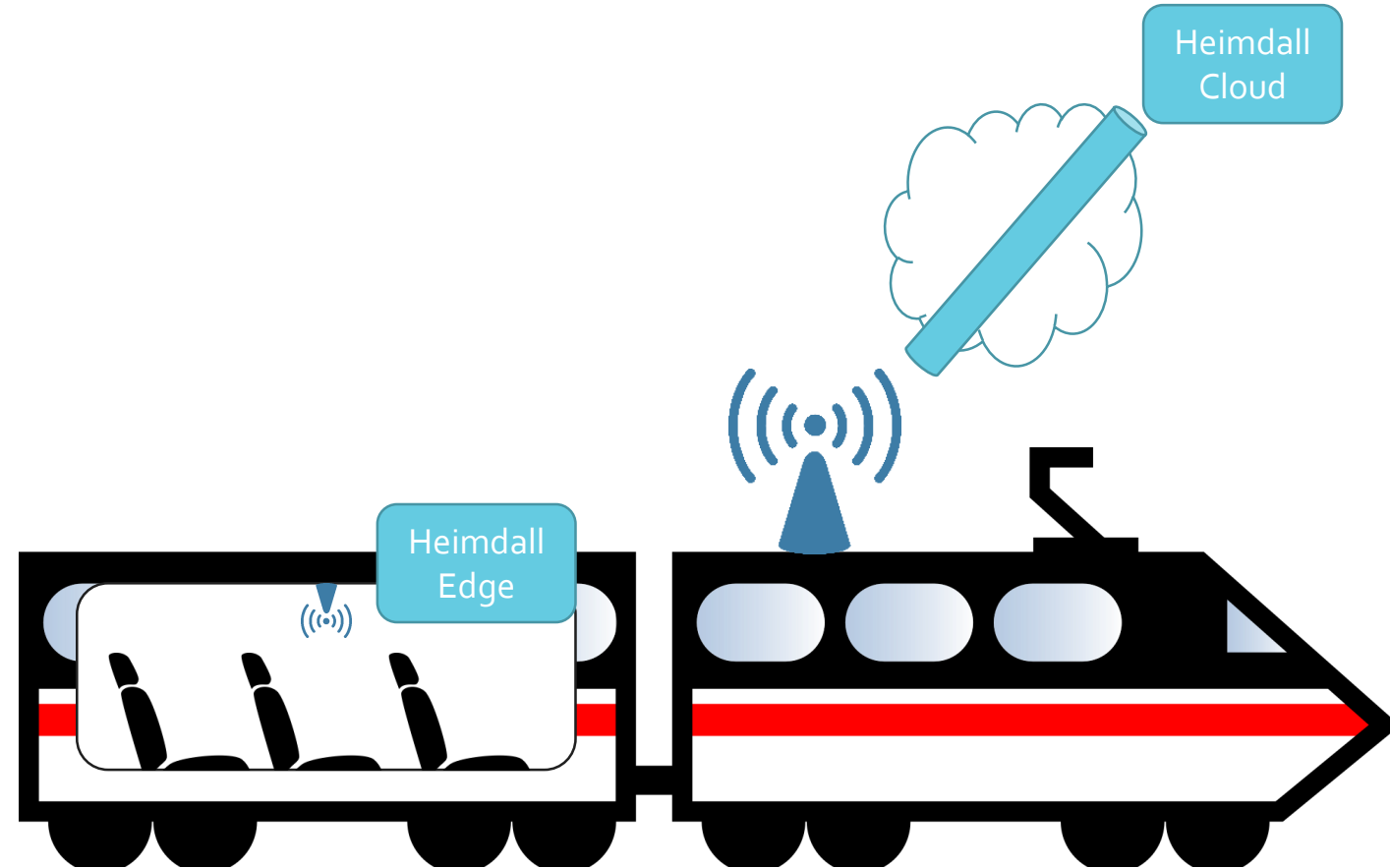
V. A. Cunha, M. Carvalho, D. Corujo, J. P. Barraca, D. Gomes, A. E. Schaeffer-Filho, C. R. P. D. Santos, L. Z. Granville and R. L. Aguiar, "An SFC-enabled Approach for Processing SSL/TLS Encrypted Traffic in Future Enterprise Networks", in 2018 IEEE Symposium on Computers and Communications (ISCC 2018), Natal, Brazil, Jun. 2018

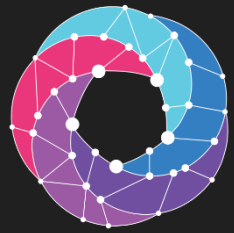


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Use case

Corporate Internet
in trains



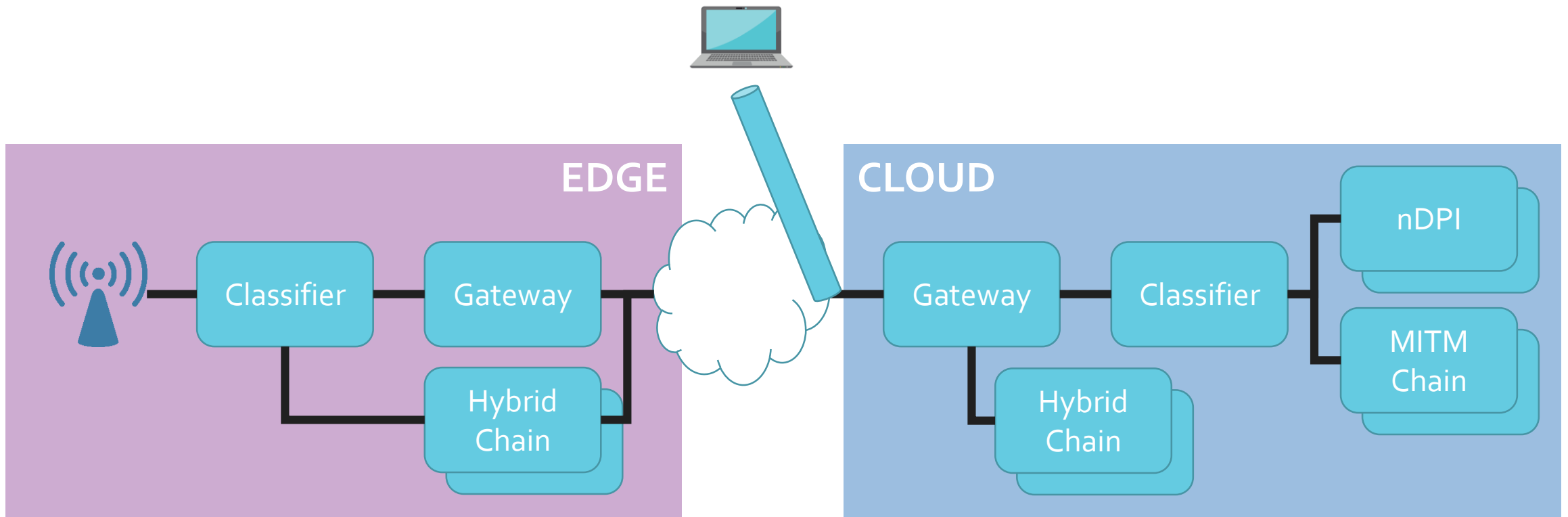


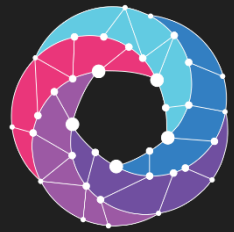
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OSM usage

- OSM Release 4
- Instantiation of the NS
- Day 0/1/2 configuration

Logical Topology

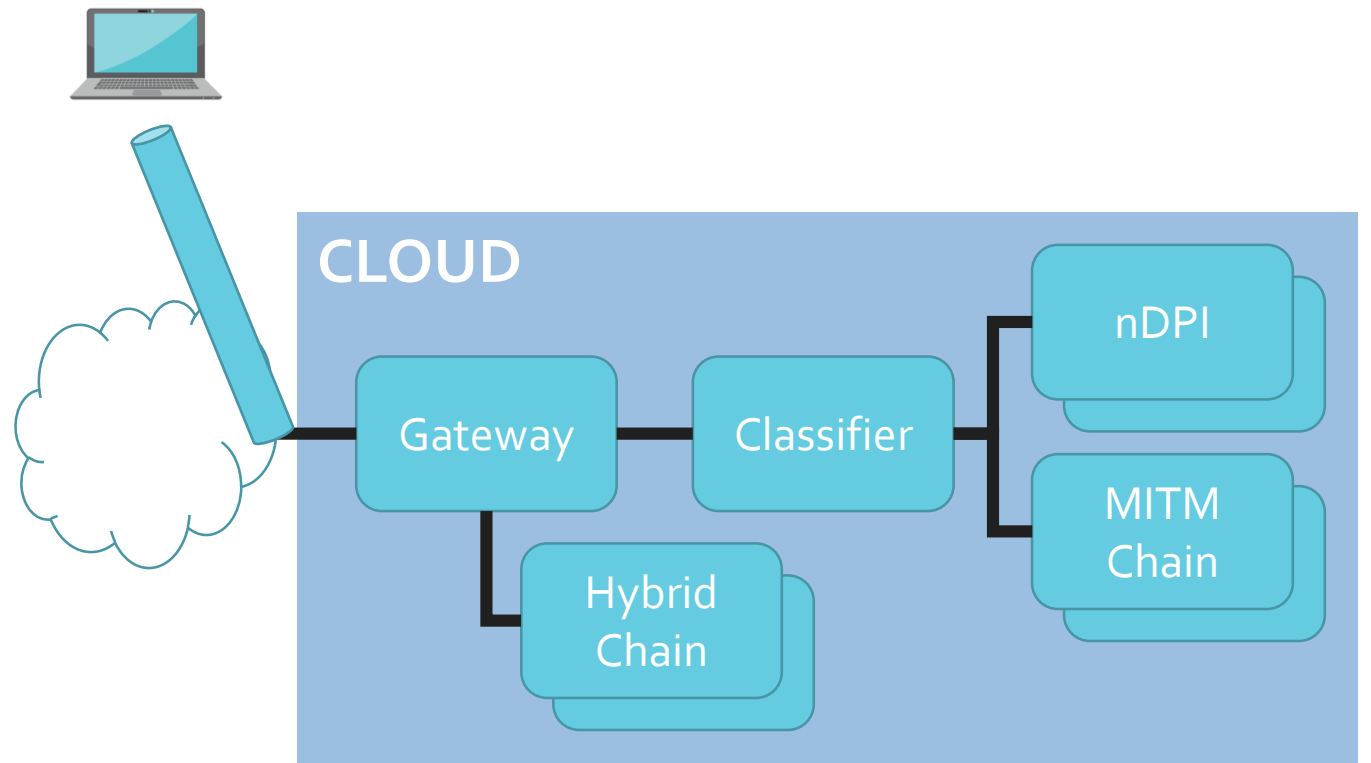


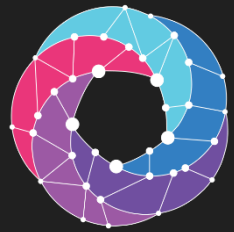


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Part 1

Cloud

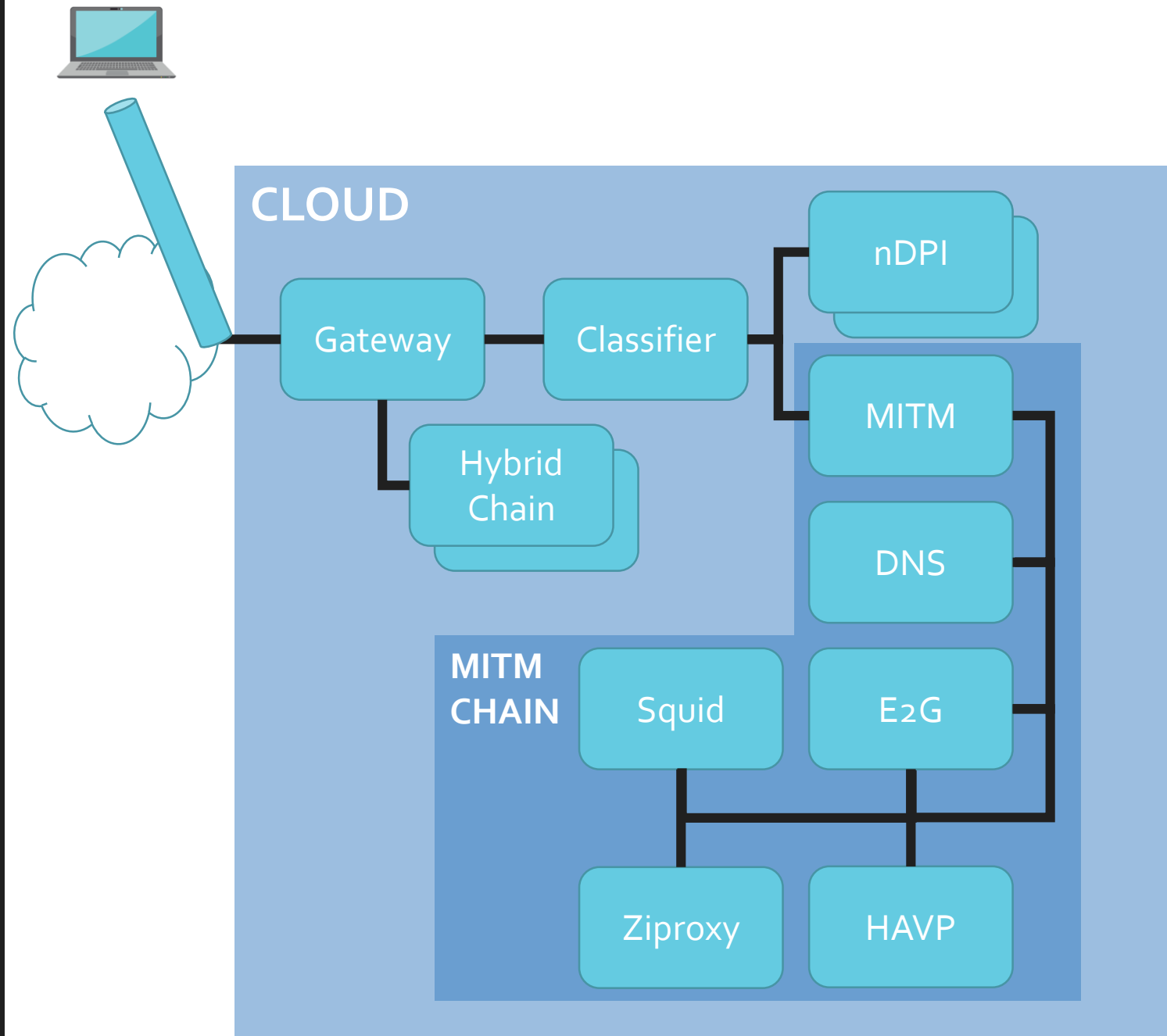


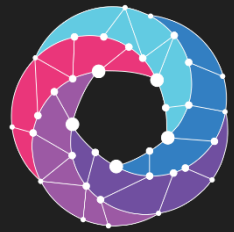


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Part 1_a

MITM chain

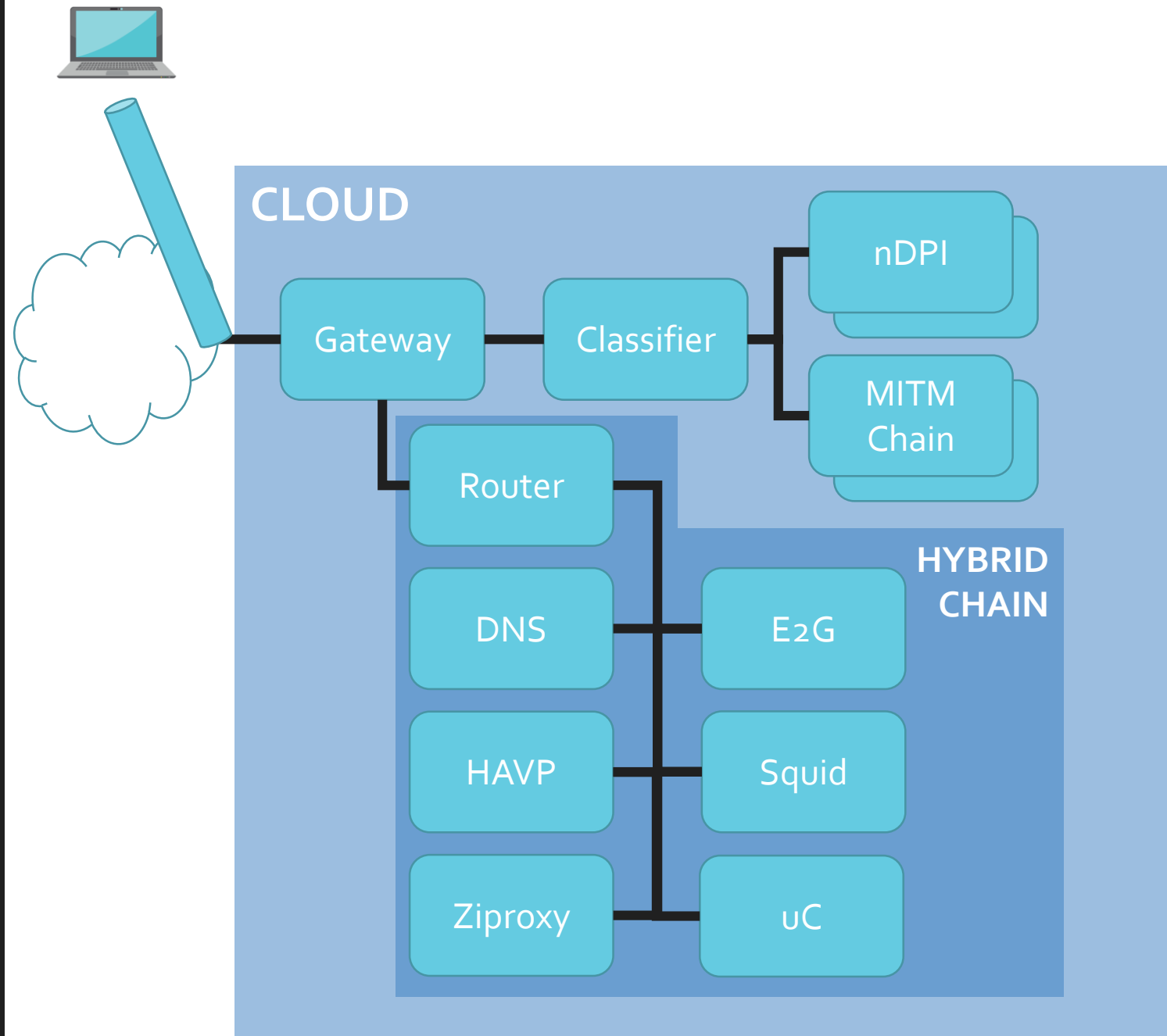




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Part 1_b

Hybrid chain

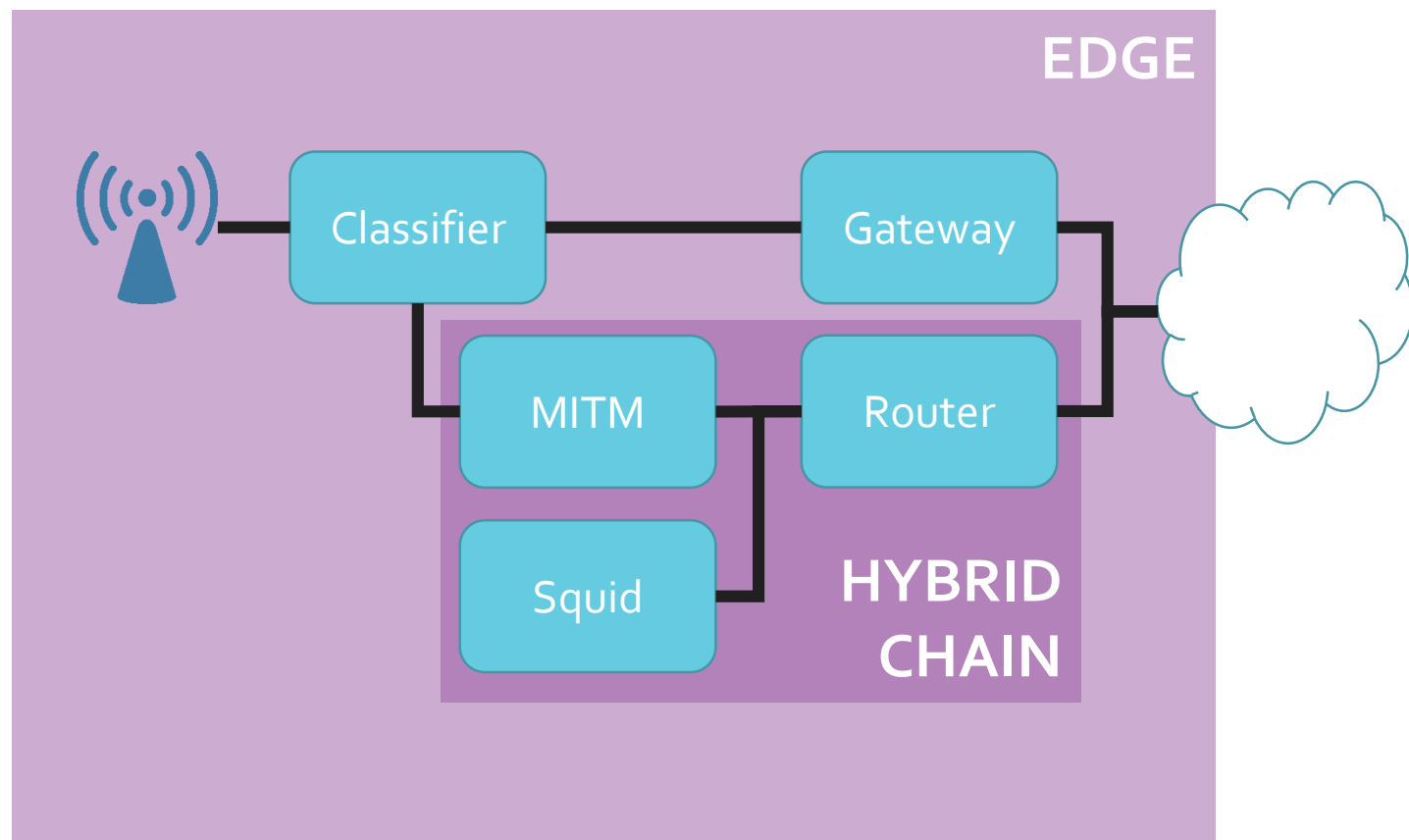


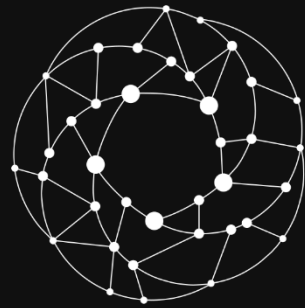


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Part 2

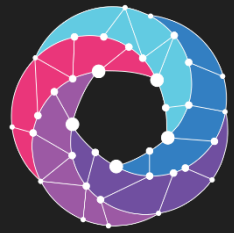
Edge





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VIDEO



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Future work

- Scaling groups
- Performance monitoring
- Fault monitoring
- VNF lifecycle management
- SFC using OSM



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Questions



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Thank you!