GNS3_1

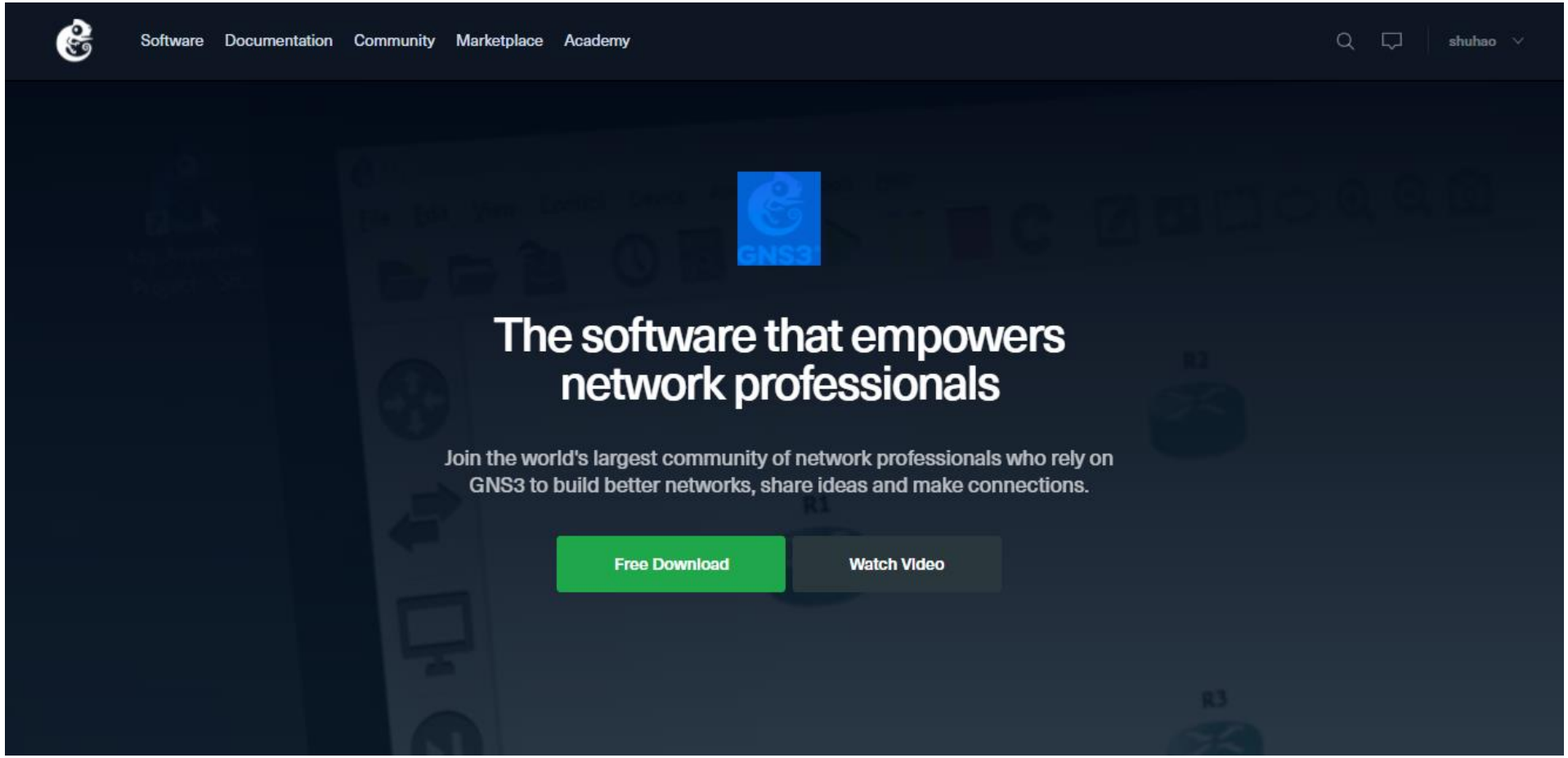
Getting Started

Paper Study

References

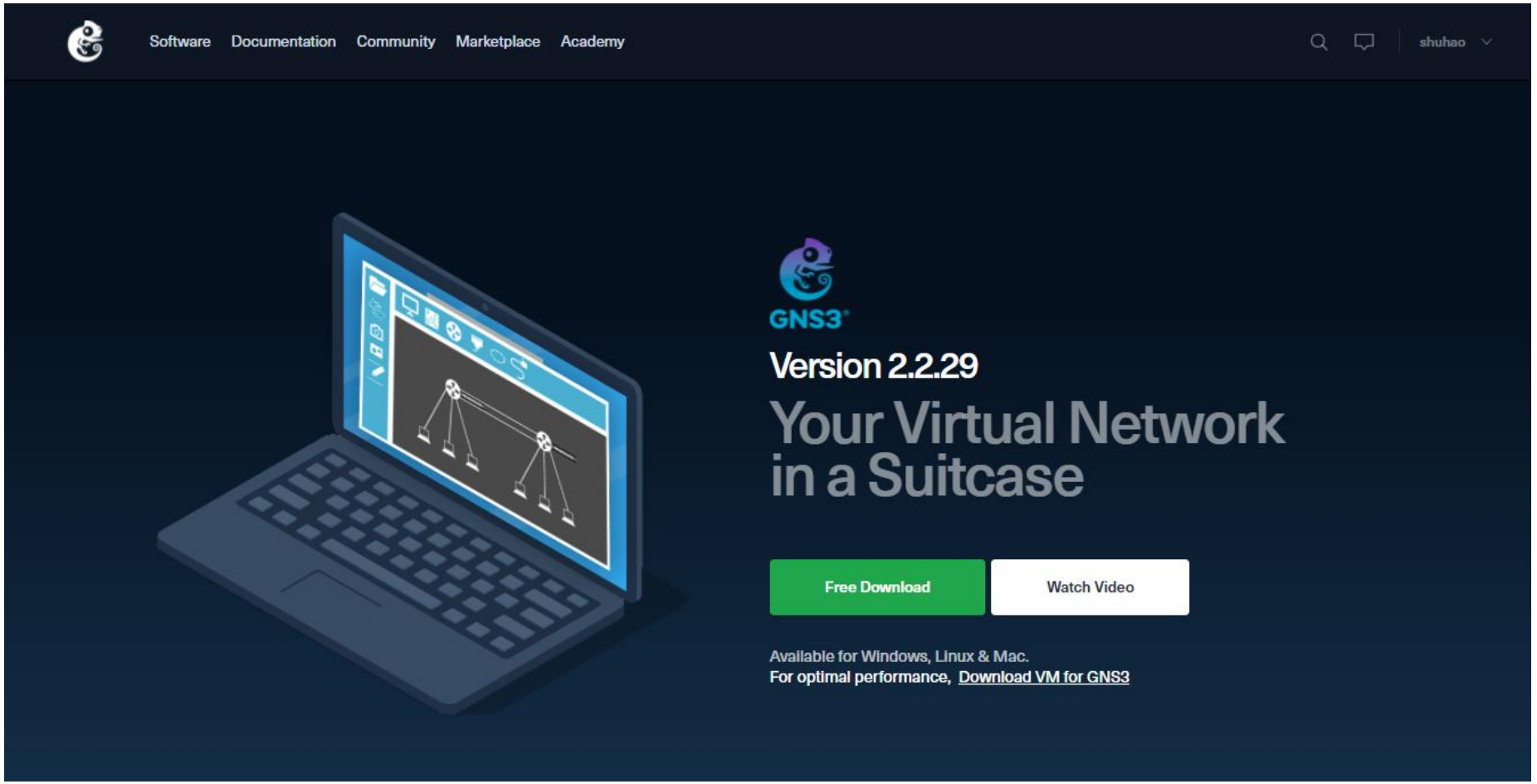
Introduction

https://gns3.com/



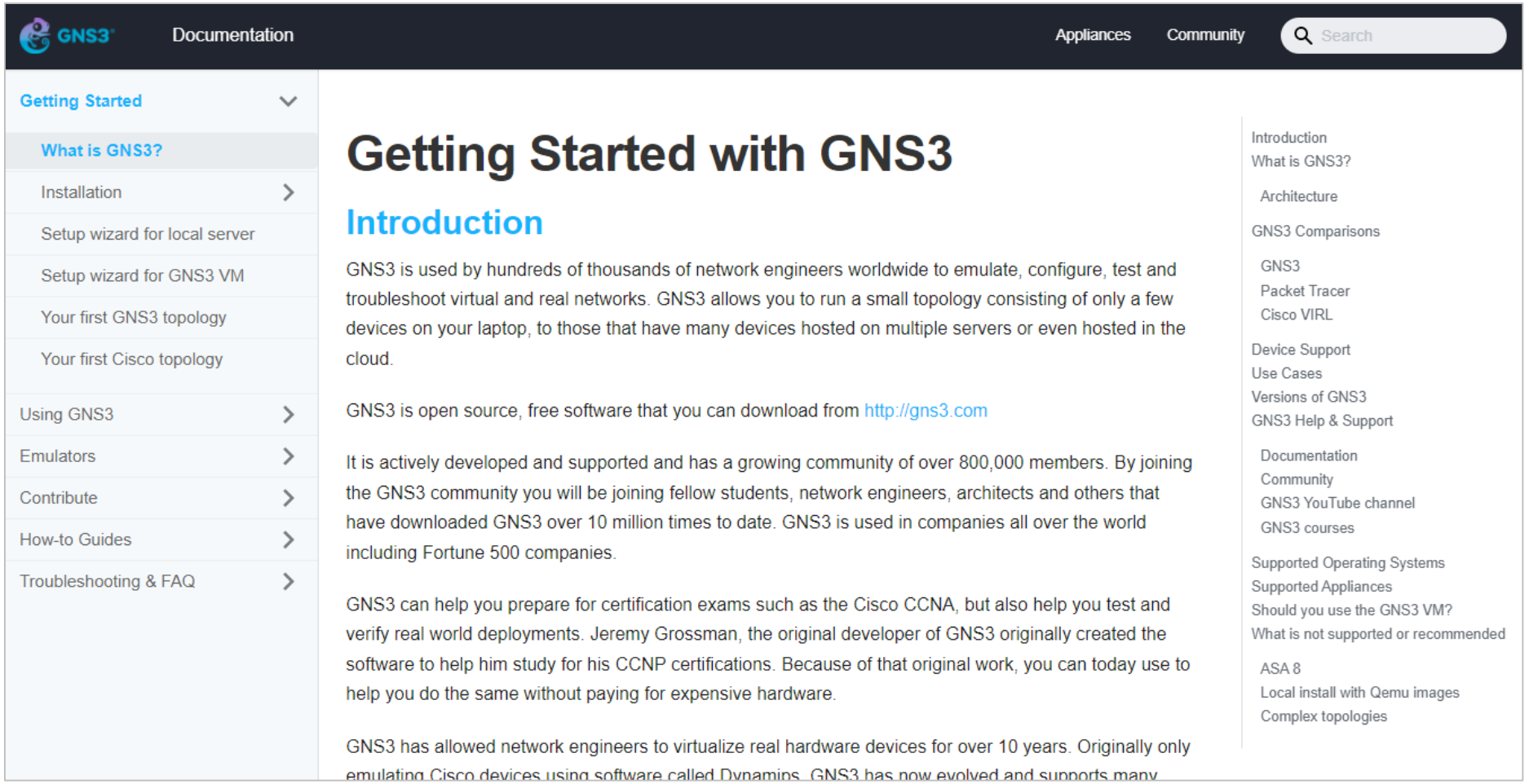
Software

https://gns3.com/software



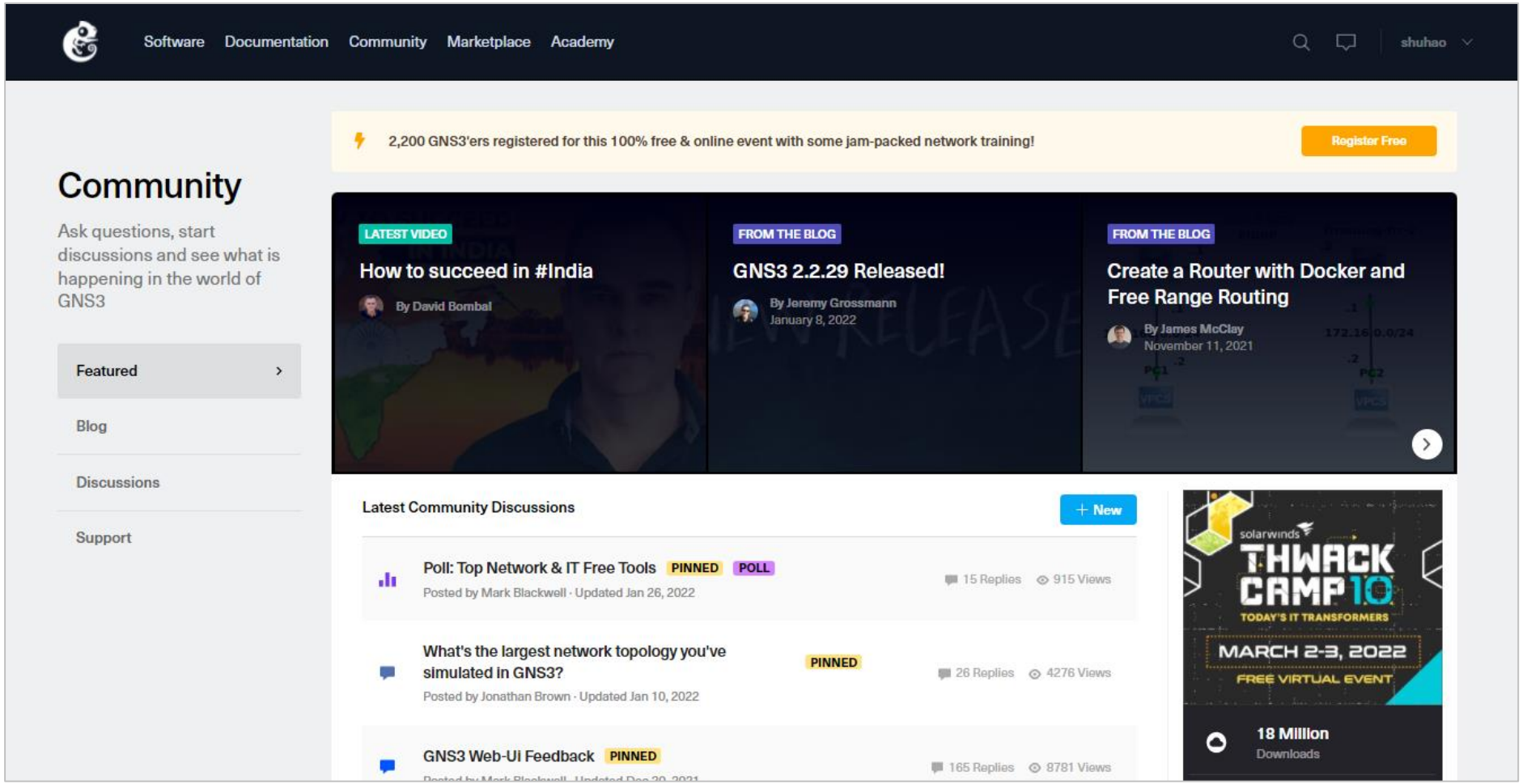
Documentation

https://docs.gns3.com/docs/



Community

https://gns3.com/community/featured



Marketplace

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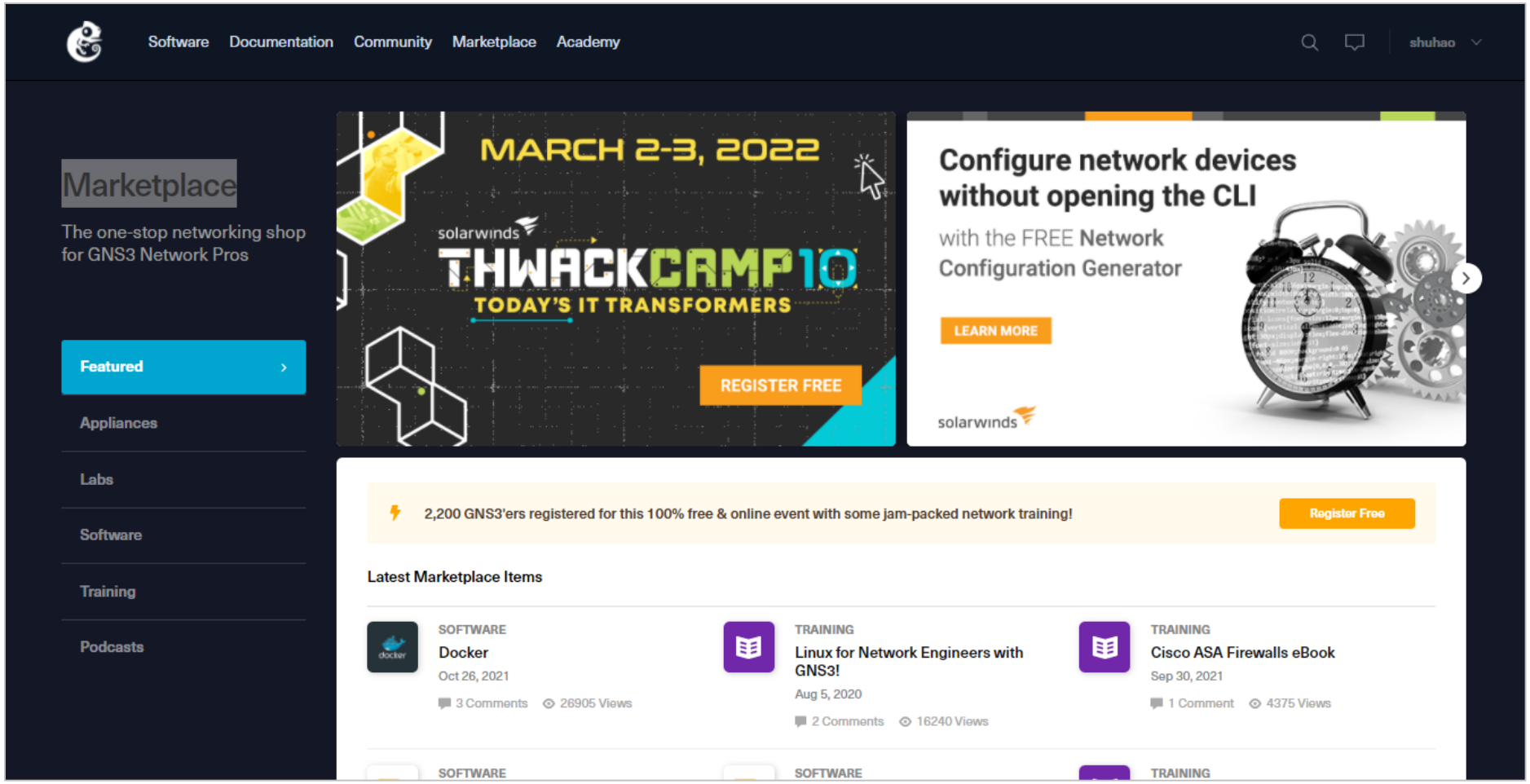
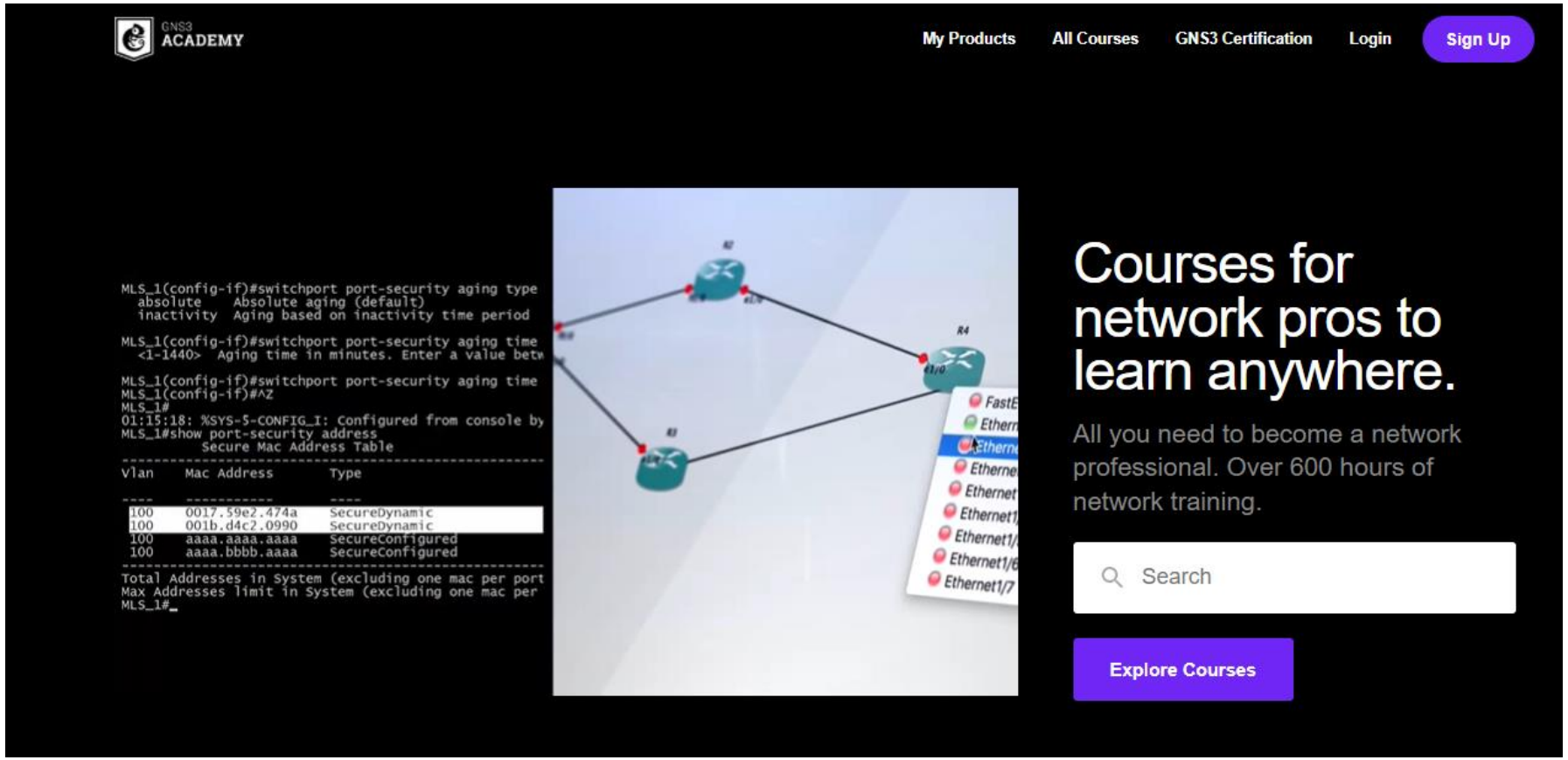


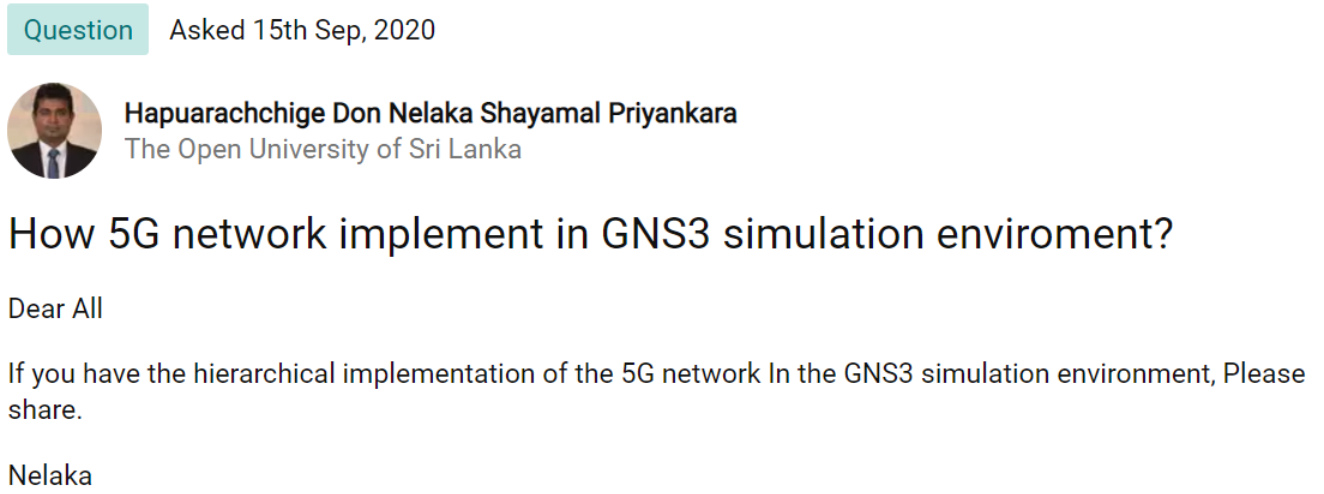
Academy

https://gns3.teachable.com/



Use GNS3 in real cases

- Why do we need to learn GNS3? To have a fundamental skill for your industrial career, not just know the technology from books.
- 5G network implementation.
  - https://www.researchgate.net/post/How-5G-network-implement-in-GNS3-simulation-enviroment



Question Asked 15th Sep, 2020

Hapuarachchige Don Nelaka Shayamal Priyankara
The Open University of Sri Lanka

How 5G network implement in GNS3 simulation enviroment?

Dear All

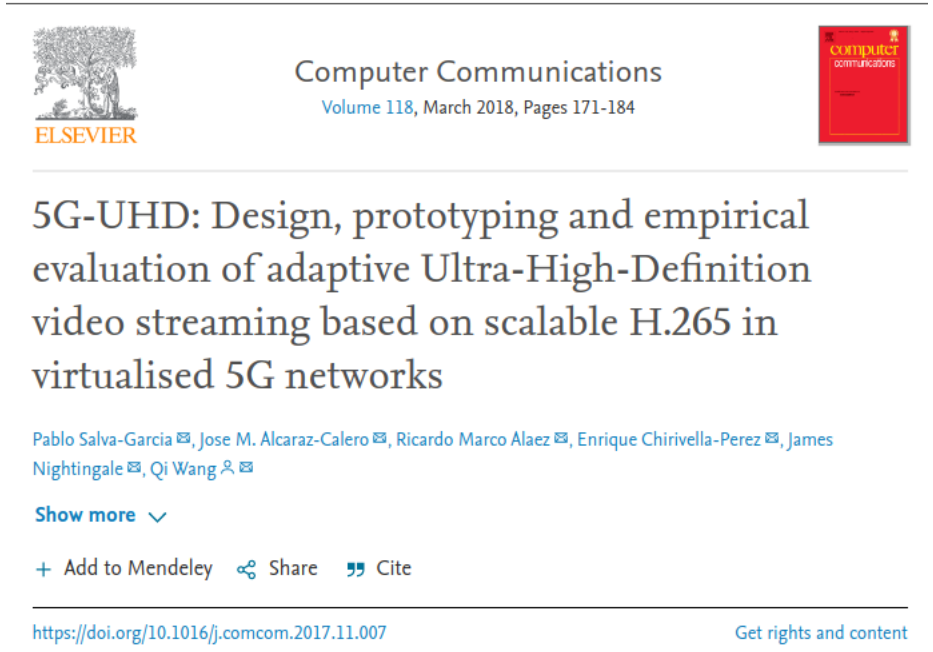
If you have the hierarchical implementation of the 5G network In the GNS3 simulation environment, Please share.

Nelaka

Paper study

https://doi.org/10.1016/j.comcom.2017.11.007

5G-UHD: Design, prototyping and empirical evaluation of adaptive Ultra-High-Definition video streaming based on scalable H.265 in virtualised 5G networks



ELSEVIER

Computer Communications

Volume 118, March 2018, Pages 171-184

5G-UHD: Design, prototyping and empirical evaluation of adaptive Ultra-High-Definition video streaming based on scalable H.265 in virtualised 5G networks

Pablo Salva-Garcia, Jose M. Alcaraz-Calero, Ricardo Marco Alaez, Enrique Chirivella-Perez, James Nightingale, Qi Wang

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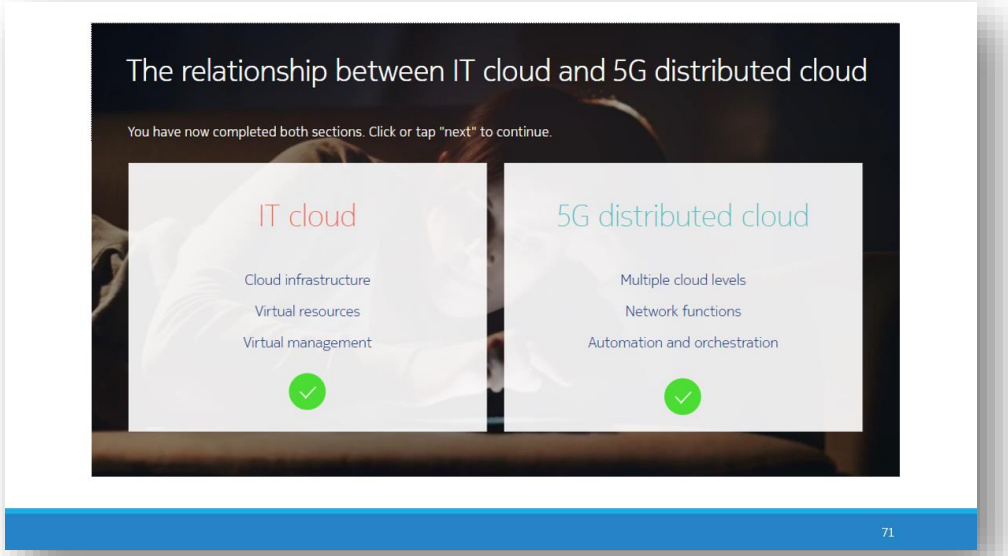
https://doi.org/10.1016/j.comcom.2017.11.007 Get rights and content

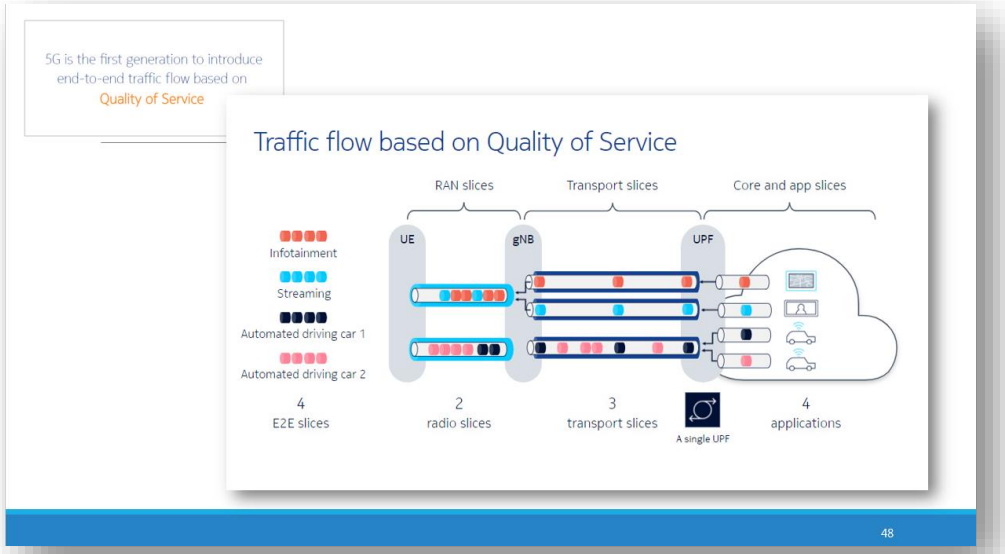
Exercise

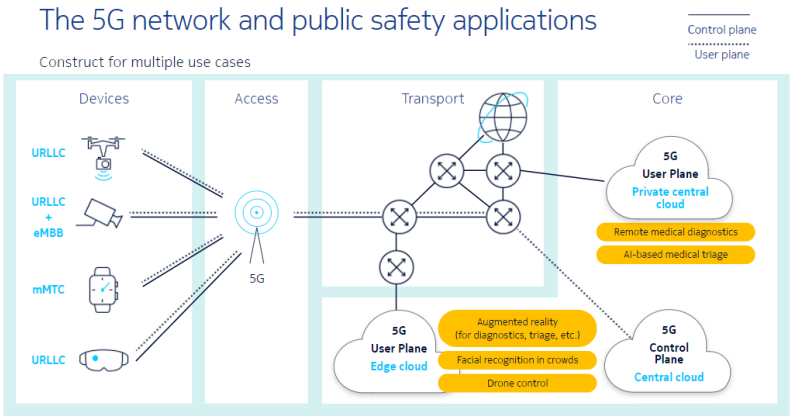
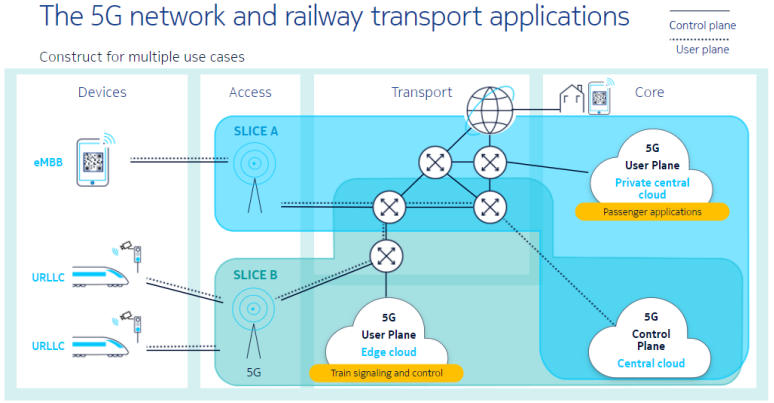
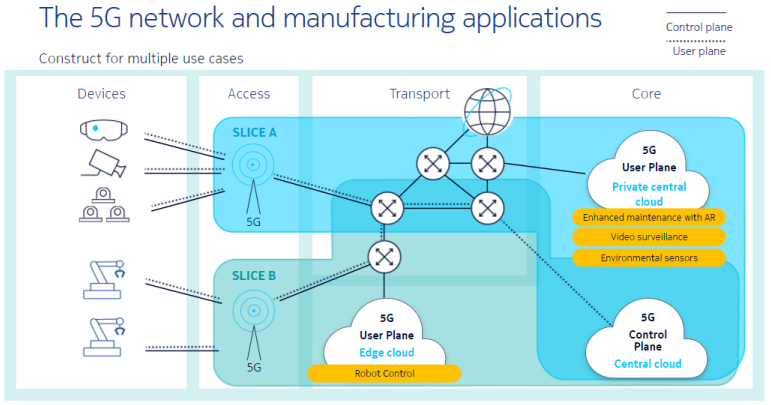
- Midterm report
  - 5G Network design for Smart Factory Setup
  - Reference: based on the “Paper study” to duplicate a 5G network
- Final report (either one)
  - build a 5G distributed cloud with QoS control
  - build a 5G network application

Reference

- Reference:
  - Nokia 5G Unit 3 - Foundation of Distributed Cloud
  - Nokia 5G Unit 4 - Foundation of Network Slicing (traffic flow based on Quality of Service)





Reference

- Reference: Nokia 5G Unit 6 - Foundation of Industrial Automation
  - Public safety applications
  - Railway transport applications
  - Manufacturing applications