OpenFlow Documentation

Specific Protocol between the controller and the OF switches. And a set of operations/messages sent to the switches.

- Original Paper: OpenFlow: Enabling Innovation in Campus Networks
- Original site: www.opennetworking.org
- Old site: www.openflow.org
- Specifications: 1.4.0, 1.3.2, 1.3.1, 1.3.0, 1.2.0, 1.1.0, 1.0.0

Novos materiais (por tecepe)

hcprobe

- hcprobe
- Advanced Study of SDN/OpenFlow Controllers

Artigos interessantes

- Evaluating OpenFlow Controller Paradigms
- Parâmetros balizadores para experimentos com comutadores OpenFlow : avaliação experimental baseada em medições de alta precisão
- The Beacon OpenFlow Controller
- POX CONTROLLER PERFORMANCE FOR OPENFLOW NETWORKS
- Monitoring latency with OpenFlow

Artigo de possível interesse:

- Design and Implementation of an Efficient and Programmable Future Internet Testbed in Taiwan

Artigos que não tive acesso e podem ser interessantes

- Simulative Comparison of Multiprotocol Label Switching and OpenFlow Network Technologies for Transmission Operations
- Formal Modeling and Verification of SDN-OpenFlow
- Fast, accurate simulation for SDN prototyping
- Modeling and performance evaluation of an OpenFlow architecture
- Metrics and Measurement Tools in OpenFlow and the OFELIA Testbed
- OpenFlow: Why latency does matter

OpenFlow Basics and Overview

- What OpenFlow is and more importantly, what it's not
- Origins and Evolution of OpenFlow/SDN
- OpenFlow components
- Notes on OpenFlow
- OpenFlow is like IPv6
- OpenFlow, Controllers – Whats missing in Routing Protocols today?
- OpenFlow protocol guide: SDN controllers and apps

OpenFlow Scalability and Performance

- On data center scale, OpenFlow, and SDN
- The Scaling Implications of SDN
- On Controller Performance in Software-Defined Networks
- Performance Analysis of OpenFlow Hardware erro 404
- OpenFlow Switching Performance
- Performance Evaluation of OpenFlow Switches
- Why OpenFlow Hardware Control Matters in the Data Center?
- CAP for Networks
- Controller Performance Comparisons
- Evaluation of OF Controllers

- OFLOPS: An Open Framework for OpenFlow Switch Evaluation
- Beacon Benchmarking Guidelines

OpenFlow Programming Languages

- Languages for Software-Defined Networks
- Frenetic: A Network Programming Language
- Composing Software-Defined Networks
- Participatory Networking: An API for Application Control of SDNs
- A Compile and Run-time System for Network Programming Languages
- Machine-Verified Network Controllers
- Nettle: Functional Reactive Programming of OpenFlow Networks
- Procera: A Language for High-Level Reactive Network Control
- FatTire: Declarative Fault Tolerance for Software-defined Networks
- A Balance of Power: Expressive, Analyzable Controller Programming

OpenFlow Federation and Isolation

- Hierarchical Policies for Software Defined Networks
- Splendid Isolation: A Slice Abstraction for Software-Defined Networks

OpenFlow Testing, Verification, Evaluation, Debugging and Tracing

- ONF Testing and Interoperability Working Group
- OFRewind: Enabling Record and Replay Troubleshooting for Networks
- Where Is the Debugger for My Software-Defined Network?
- Logically Centralized? State Distribution Trade-offs in Software Defined Networks
- Veriflow: Verifying Network-Wide Invariants in Real Time
- Header Space Analysis: Static Checking for Networks
- Real Time Network Policy Checking using Header Space Analysis
- A NICE Way to Test OpenFlow Applications
- A SOFT Way for OpenFlow Interoperability Testing
- FlowChecker: Configuration, Analysis, and Verification of Federated OpenFlow Infrastructures

OpenFlow Emulation and Simulation

- A Network in a Laptop: Rapid Prototyping for Software-Defined Networks
- Fast, Accurate Simulation for SDN Prototyping
- High-Fidelity Switch Models for Software-Defined Network Emulation

OpenFlow HOWTOs and Tutorials

- Original OpenFlow Tutorial
- OpenFlow - SDN for engenniers
- OpenFlow/SDN Beginner's Tutorial
- OpenFlow 1.3 Tutorial by CPqD

OpenFlow Software

OpenFlow Controllers

Discussão sobre características a serem avaliadas

[[OpenFlowControllers_Features|Características e funcionalidades]]

Análise dedicada

- [[Ryu]]
- [[NOX]]
- [[POX]]
- [[Trema]]
- [[Floodlight]]
- [[OpenDaylight]]

Resumo (desatualizado)

[[OpenFLOW Controllers]]

OpenFlow Controllers Frameworks

OpenFlow Hypervisors

OpenFlow Test Tools

OpenFlow Switches

- OpenFlow 1.3 Software Switch