

# Weighted Round Robin Load Balancer

Jakub Szczudlik, Marek Wypich, Jakub Niećko, Miłosz Janeczek

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Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie  
AGH University of Krakow



# Scope & Objectives

## **Objective:**

- Implementing Weighted Round Robin Load Balancer

## **Scope:**

- SDN topology in Mininet
- REST API for inserting precalculated paths
- WRR implementation

## **Tools:**

- Mininet
- Floodlight Controller VM machine
- CURL/Postman
- wget, python http server
- X-server e.g. VcXsrv

# Topology

H1 & H2

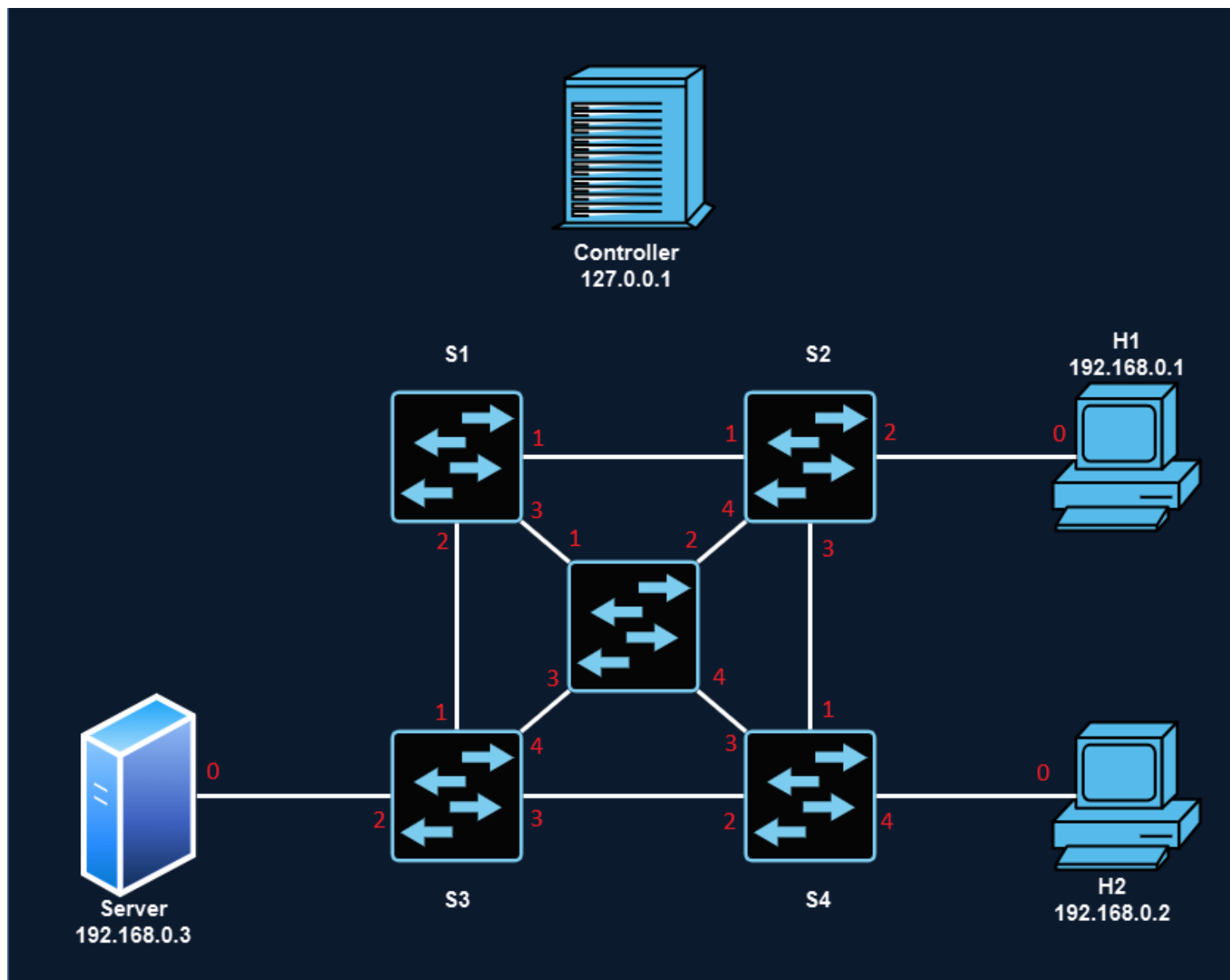
- S2, S4

H1 & H3 (Server)

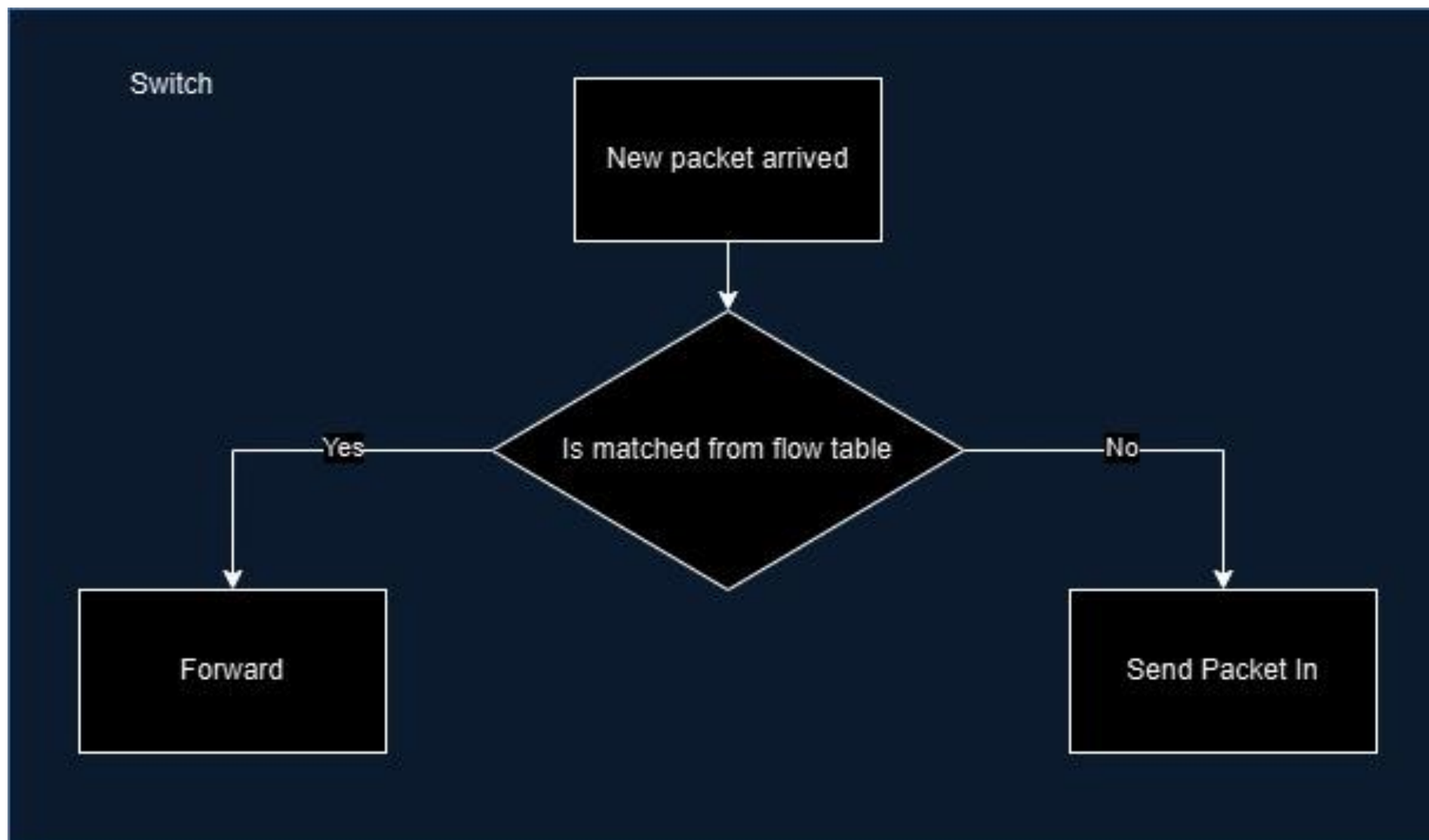
- S2, S1, S3
- S2, S5, S3
- S2, S4, S3

H2 & H3 (Server)

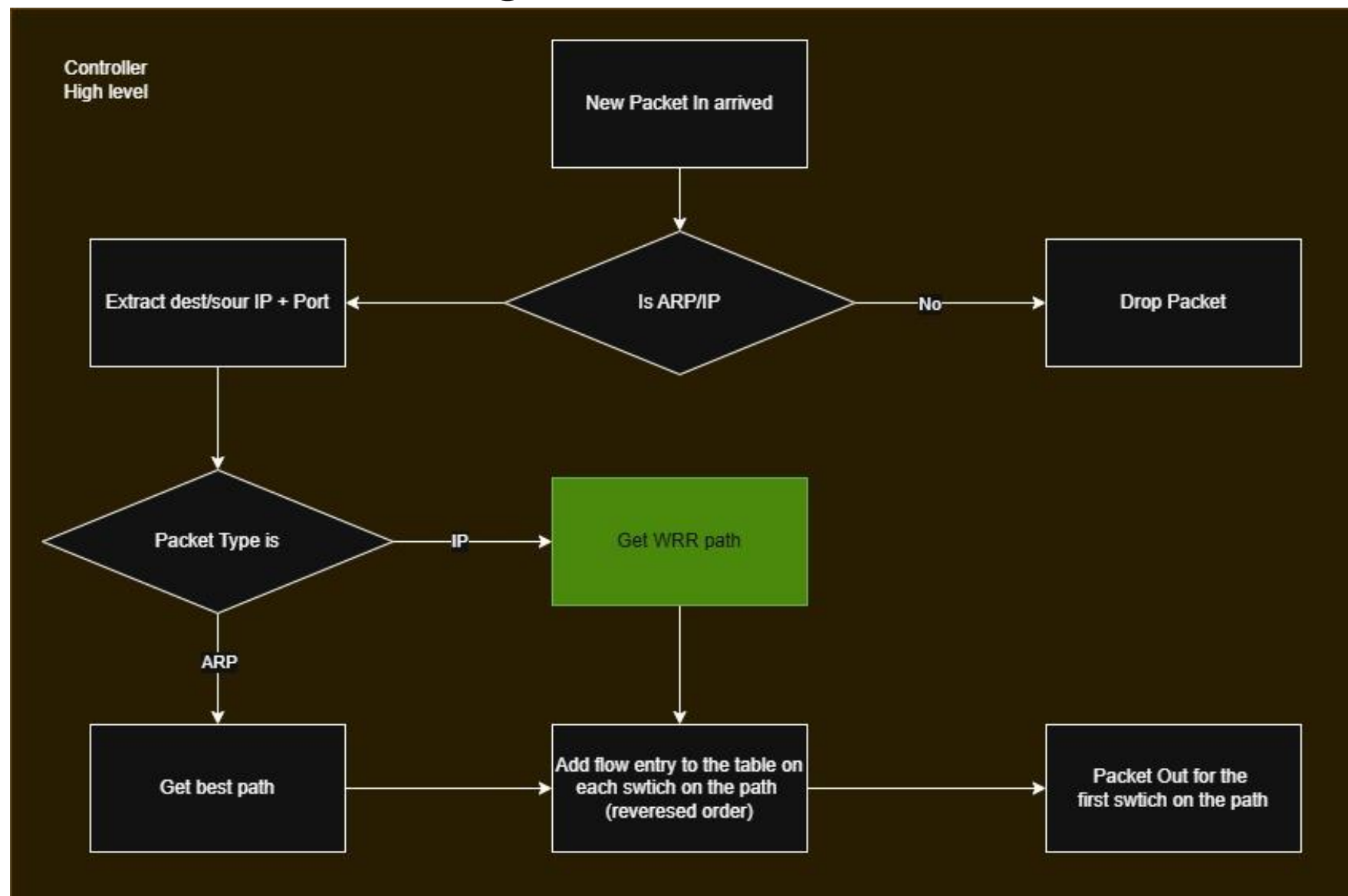
- S4, S3
- S4, S5, S3
- S4, S2, S1, S3



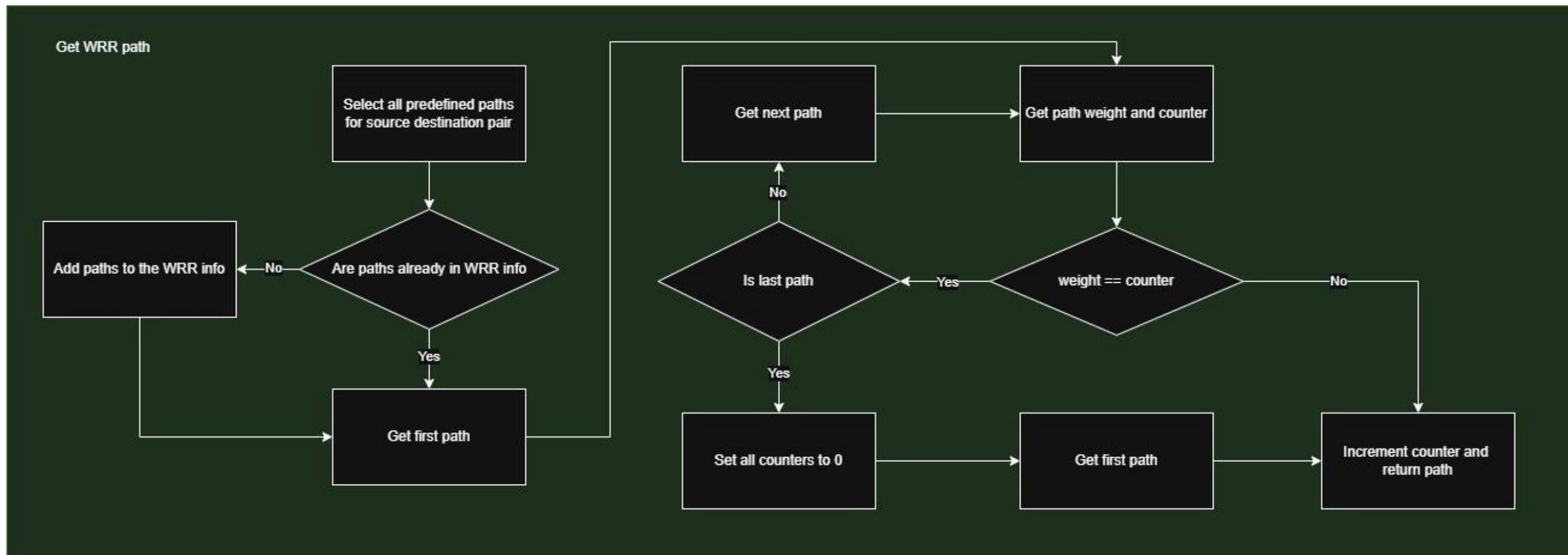
# Switch Block Diagram



# Controller Block Diagram



# WRR Algorithm Block Diagram



Thank you for your attention