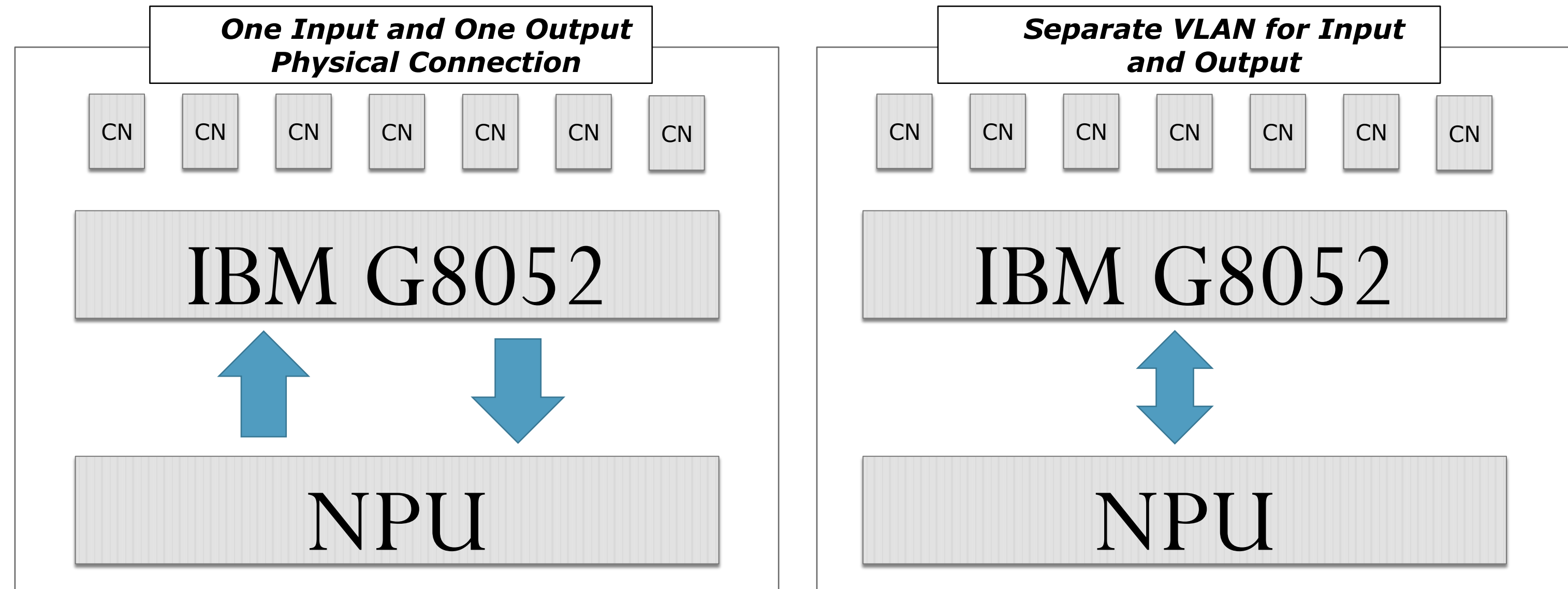
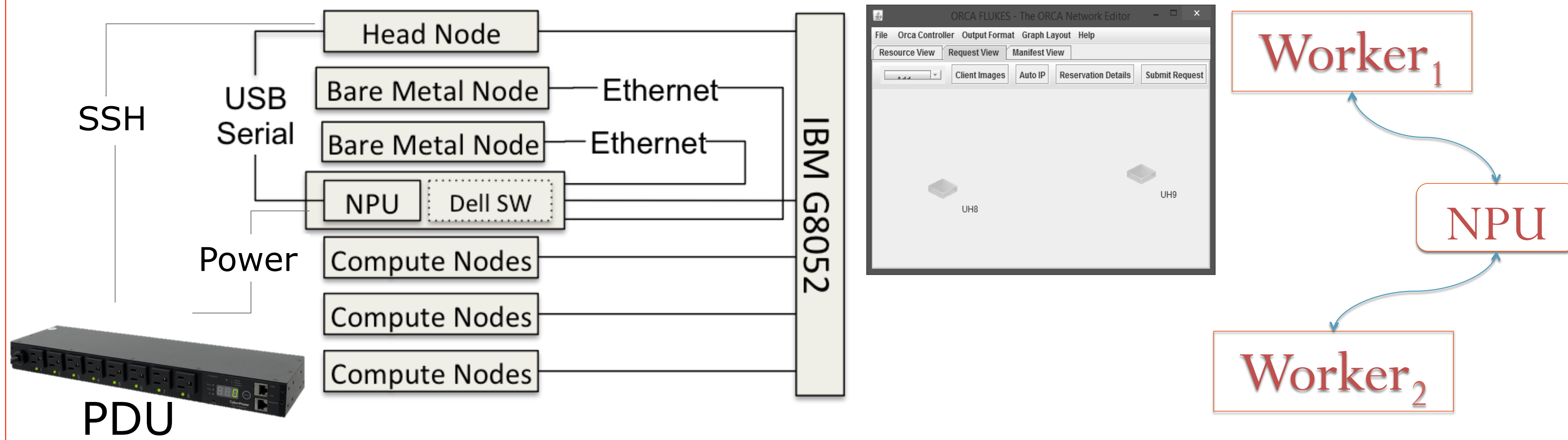


Split Data Plane Switches on GENI

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Special thanks to Michael Wever from **CAVIUM**

Fixed Connectivity



ACL entries in switch for NPU access

```
access-list genil permit ip any any redirect Tengigabitethernet 1/2/2
interface gigabitethernet 1/0/10
ip access-group genil in
```

Switch port 10 traffic (all IPs) is forwarded to the NPU.

Start script

```
load firmware
power ON
add user
add credentials
```

Stop script

```
notify user
power off
remove firmware
```

Aggregate Considerations

NPU programmability

load firmware, power ON, add user, add credentials... another VM on GENI?

Leverage hardware accelerators

Port expansion

NPU-switch interface: leverage high-capacity interface with internal forwarding

Experimentation Potential

Deploy on demand
Pass selected flows through
Distribute functions in the network