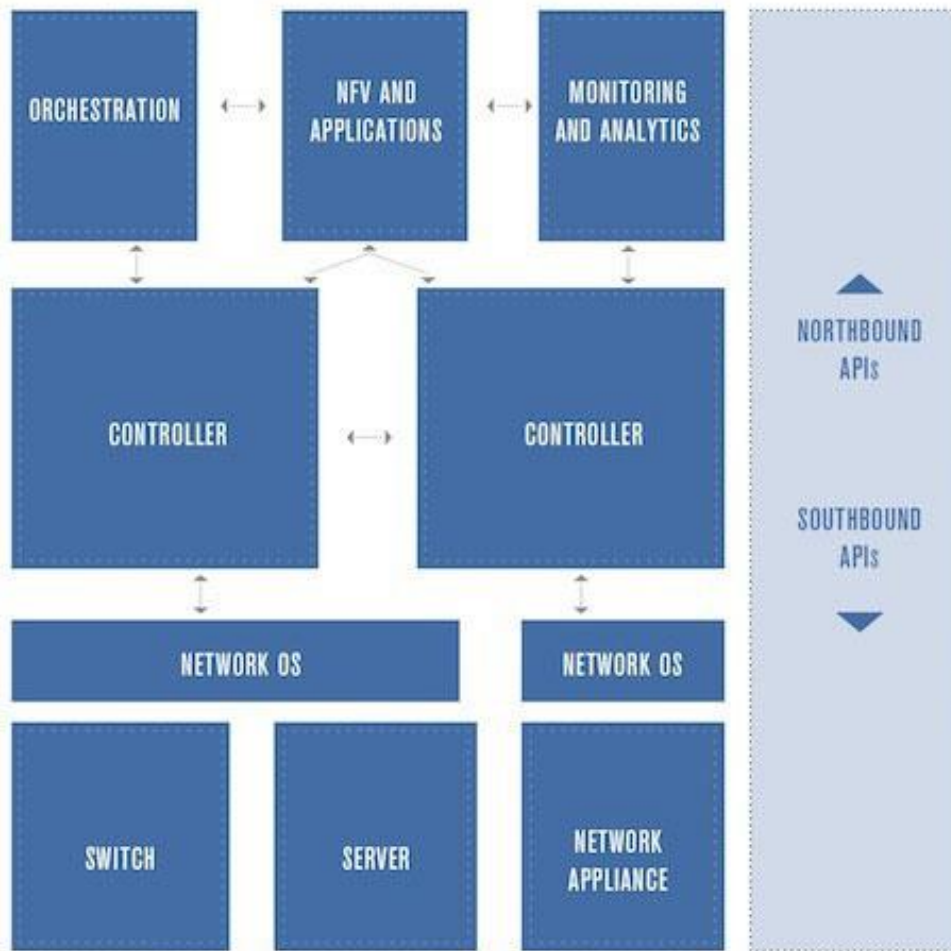


- Recent developments in networking enable programmatic interaction between user and application
- Software Defined Networking
 - Started well before OpenFlow
 - e.g. Dynamic Circuits / Bandwidth on Demand systems
 - one application – **not the core of SDN!**
- Basic SDN Paradigm:
Separation of Network control plane from the data plane
- Not bound any more by the feature set defined by the equipment vendors
 - But – you could be by the feature set of the software companies developing the control software
 - Or – you have the possibility to program the network behaviour yourself



SDN BUILDING BLOCKS



SOURCE: RAYNO REPORT (WWW.RAYNOREPORT.COM)



How can we leverage the new capabilities?

- The networks today are different from years ago
 - a reliable resource
 - new capabilities like SDN
 - ...
 - and yes, much more bandwidth
- What impact does this have on the design of a modern distributed computing system?

