

Consuming Cisco APIs and Understanding Application DevOps

LEVERAGING CISCO MANAGEMENT SOLUTIONS
AND SDKS



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Agenda



Prerequisites and review

Model driven programmability

Using the Cisco Network Services
Orchestrator (NSO) API

Using software development kits (SDK)
with Cisco DNA Center



A Tale of Two Topics

Cisco product automation

DevOps for the CRM app

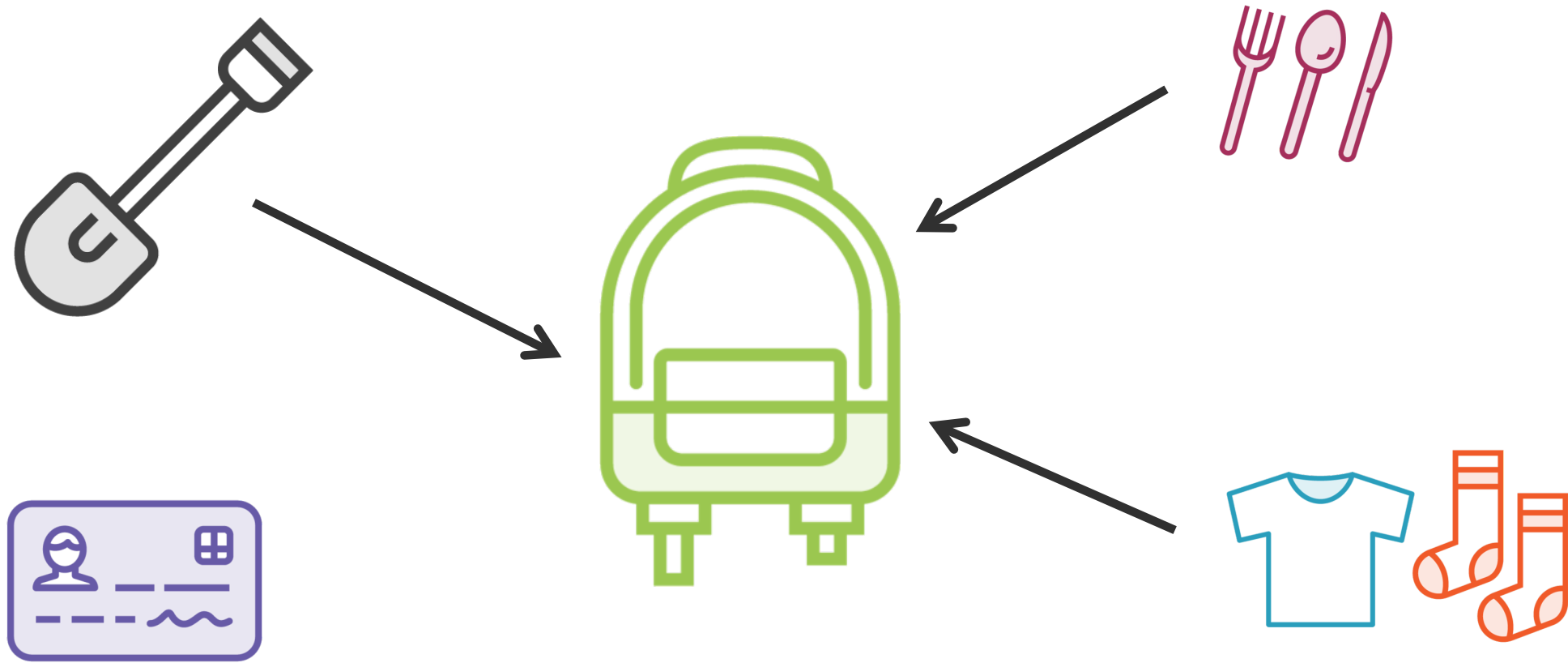


I suggest watching this first!

Getting Started with
Software Development
using Cisco DevNet



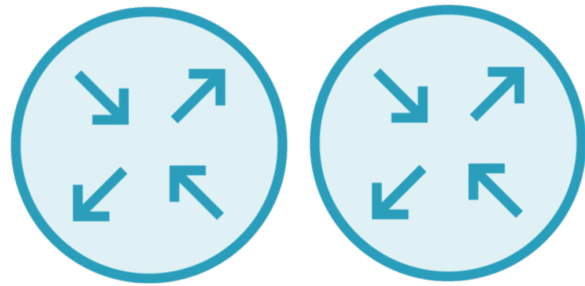
Model Driven Programmability - Analogy



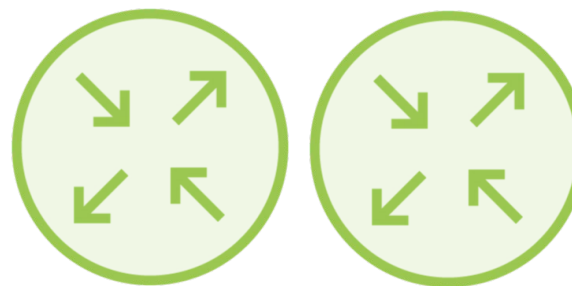
Applications to IT

```
"config": {  
  "interfaces": [  
    {  
      "name": "eth0",  
      "attributes": ....  
    }  
  ]  
}
```

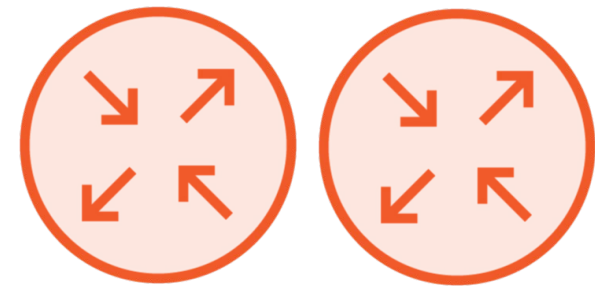
YANG 1.1 RFC 7950



Cisco



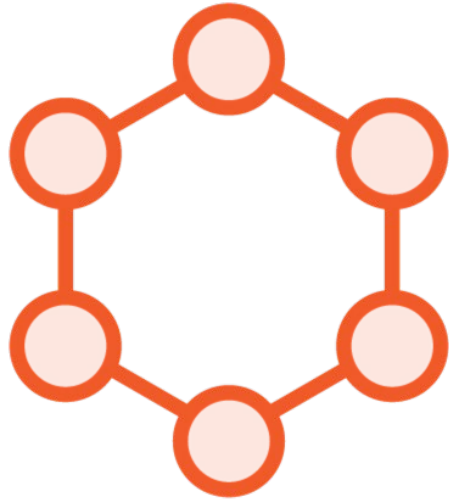
Juniper



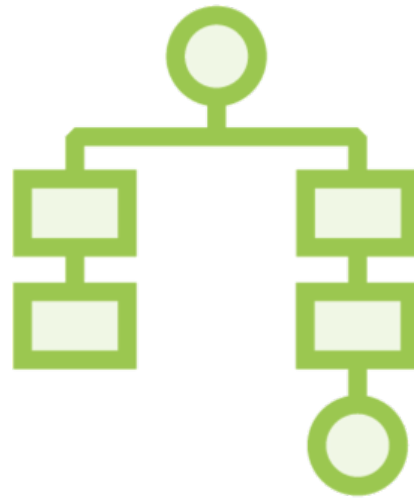
Alcatel-Lucent



Cisco Network Services Orchestrator (NSO)



Network Automation



YANG Model Driven



Network Simulation

Demo



Cisco NSO Sandbox quick start



Demo



Interacting with Cisco NSO using APIs



Demo



New: a bigger, better NSO sandbox



Why Use Software Development Kits (SDK)?

**Tools to make
developing easier**

**Abstraction for
complex APIs**

**Most products
have them**



Demo



Using the Cisco DNA Center SDK



Summary



Models make everything easier

Cisco NSO: built off models

Try the SDK first

