

# 1.4 What is New in Version 2?



# New in Version 2

---

- ▶ Updated with Ansible 2.5
- ▶ More "Official Way" of doing Network Automation
- ▶ New: roles, cloud, Ansible Tower
- ▶ Tightened up the modules

# Next: Lab setup and Installation

---



# OSPF Configuration Workflow

---

- ▶ Configure Basic OSPF
- ▶ Verifying OSPF Adjacencies
- ▶ Verifying the OSPF Database

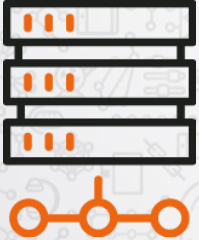
# New in Version 2

“Up and Running” with Network Devices

Save Time + Be More Productive

# Prerequisites

- ▶ (optional) Basic Networking Knowledge




# Why Ansible?


Ansible has thousands of users, hundreds of customers and over 2,400 community contributors

600+ ANSIBLE MODULES	29,000+ GITHUB STARS	230+ MEETUPS WORLDWIDE
----------------------------	----------------------------	------------------------------

[JOIN OUR COMMUNITY](#)




*“ The work the Ansible team is doing... is something the entire industry should be paying attention to.*




Lew Tucker  
VP & CTO, Cloud Computing  
**Cisco**

OpenStack Integration



*“ Red Hat Ansible Tower allows us to easily streamline the delivery of applications and services to both OpenStack & Amazon Clouds in a cost effective, simple, & secure manner.*



Jeremy Pruitt  
Cloud & Automation  
**Juniper**

IT Automation with Ansible Tower

Credit: <https://www.ansible.com/>

Come Join me to save time and be more  
productive as Network Engineers!



# OSPF Configuration Workflow

---

- ▶ Configure Basic OSPF
- ▶ Verifying OSPF Adjacencies
- ▶ Verifying the OSPF Database

# Tracking Topology Changes

▶ When a new LSA is received it is checked against the database for changes such as...

- Sequence number is used to:
  - track new vs old LSAs
- Age is used to:
  - Keep information new
  - Withdraw old information
    - Periodic flooding occurs after 30 minutes
      - “paranoid” update
  - LSAs that reach MaxAge (60 minutes) are withdrawn
- Checksum
  - Used to avoid transmission & memory corruption

# Tracking Topology Changes

- ▶ When a new LSA is received it is checked against the database for changes such as...
  - Sequence number
  - Age
    - Used to keep information new
    - Withdraw old information
      - Periodic flooding occurs after 30 minutes
      - LSAs that reach MaxAge (60 minutes) are withdrawn
  - Checksum
    - Used to avoid transmission & memory corruption

# Tracking Topology Changes

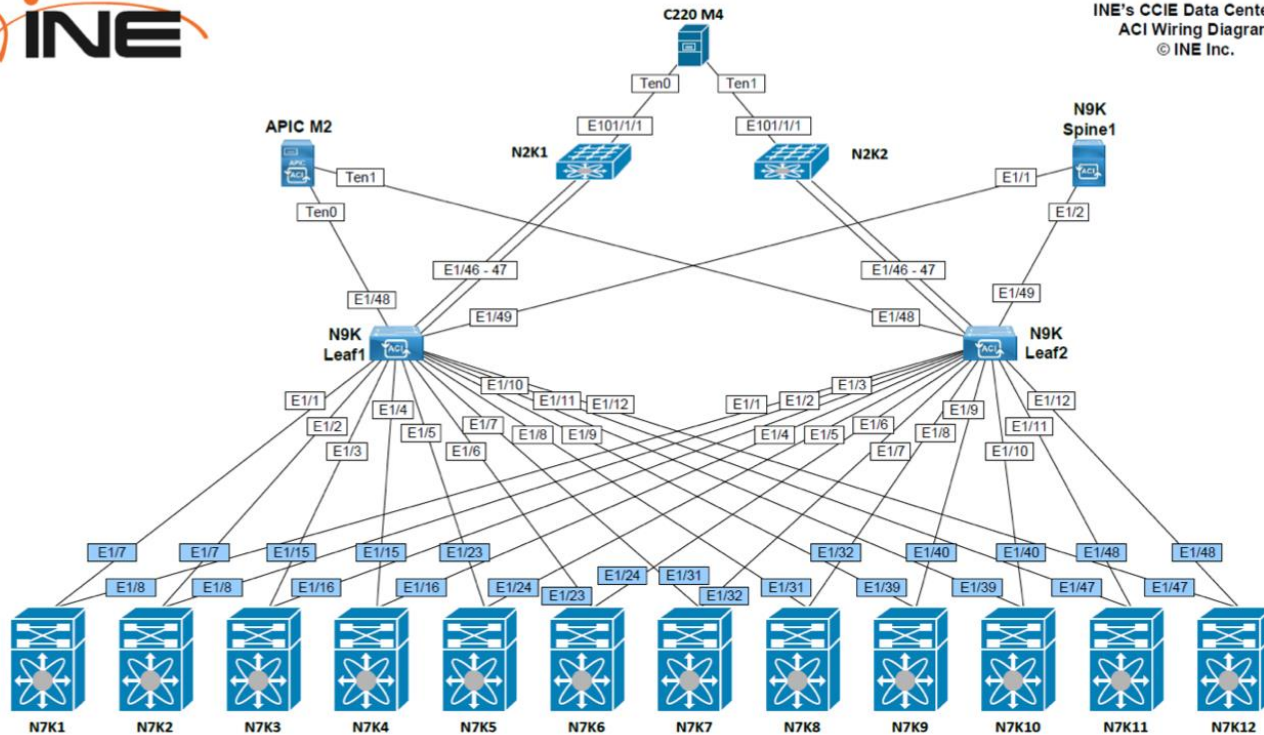
- ▶ When a new LSA is received it is checked against the database for changes such as...
  - Sequence number
  - Age
    - Used to keep information new and withdraw old information
    - Periodic flooding occurs after 30 minutes
    - LSAs that reach MaxAge (60 minutes) are withdrawn
  - Checksum
    - Used to avoid transmission & memory corruption

# Tracking Topology Changes

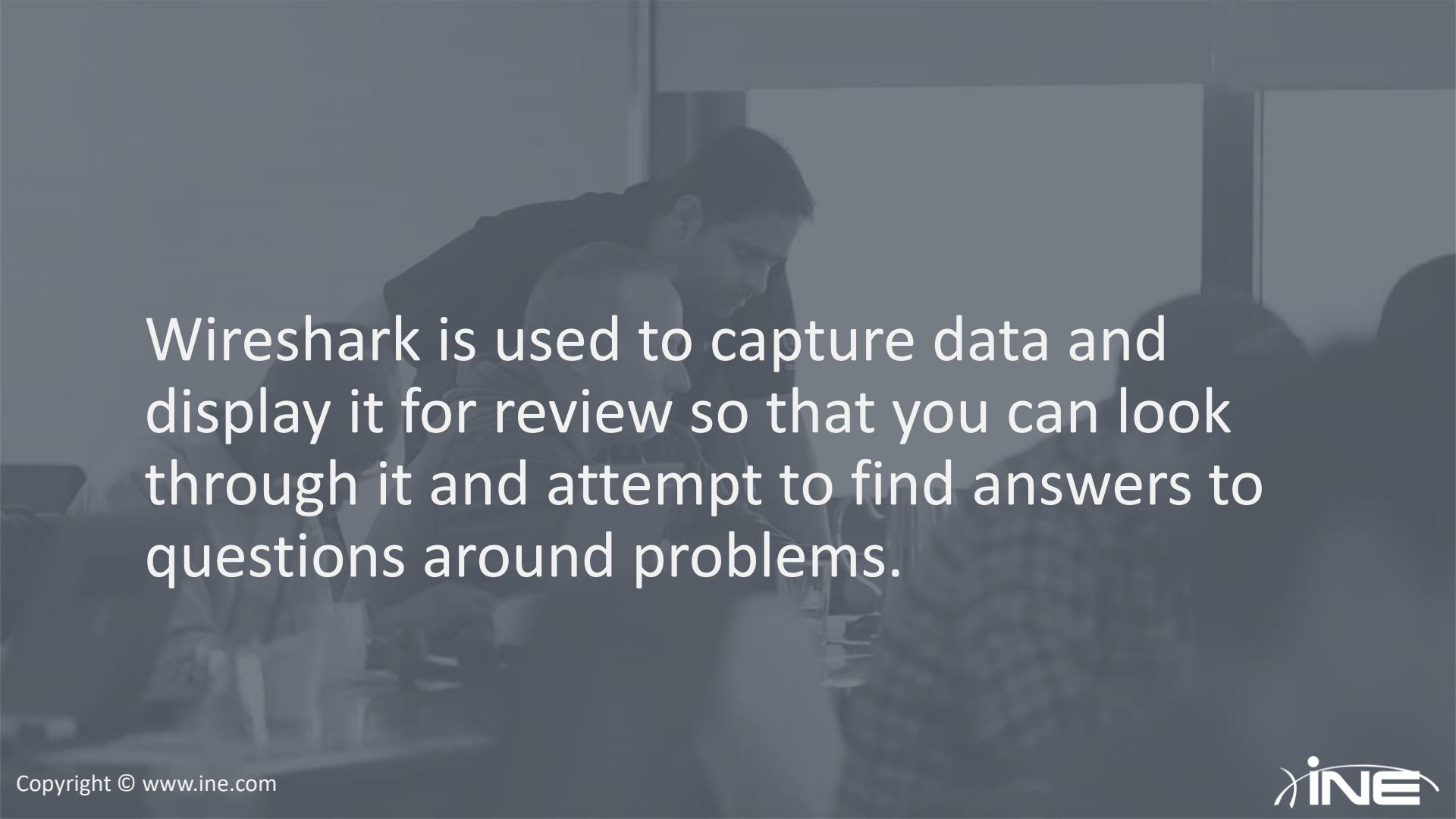
---

▶ When a new LSA is received it is checked against the database for changes such as...

- Sequence number
- Age
- Checksum



# Product/Topology Diagram



Wireshark is used to capture data and display it for review so that you can look through it and attempt to find answers to questions around problems.