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Zero Touch Network Deployment

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Step 1) Dashboard configuration

A) Define the switch
B) Assign an IP address
C) Attach Cumulus License key
Step 2) Automating installation of the NOS

A) ISC DHCP Server

B) NOS image URL

C) Post install script

ZTP

install dhcp server

```
sudo apt-get install isc-dhcp-server
```

configure dhcp server and define dhcp options in /etc/dhcpd/dhcpd.conf

```
option cumulus-provision-url code 239 = text;
option default-url code 114 = string;
subnet 10.254.128.0 netmask 255.255.255.0 {
  range 10.254.128.100 10.254.128.200;
  option routesa 10.254.128.1;
  option default-url = "http://10.254.128.31/one-installer.sh";
  option cumulus-provision-url = "http://10.254.128.32/provision.sh#";
}
```

cumulus-provision-url - is a path for script

default-url - is a path for NOS image

include the following line in any of the supported scripts that you expect to run using the autoprovisioning framework.

```
# CUMULUS-AUTOPROVISIONING
```
Step 2) Automating installation of the NOS

LIVE INSTALLATION DEMO
Identification may be a challenge

Out of band management

WEB, DHCP
Identification may be a challenge

Installing one by one?

Out of band management

WEB, DHCP
Identification may be a challenge

Installing one by one - **Does not scale**
SMART out of band management

DHCP, ZTP into unique VXLAN on untagged port

Management

Production

Regular Management VXLAN tagged with fixed id (4000)

Just tell your dashboard which management port is used for each switch
While switch is identified

```
option cumulus-provision-url = "http://10.254.128.32/provision.sh";
```

Individual URL for every switch - AUTOMATICALLY

A) Push License Key

B) Configure Management & production IP addresses

C) Install orchestration and management agent
While switch is identified

```
option cumulus-provision-url = "http://10.254.128.32/provision.sh";
```

Individual URL for every switch - AUTOMATICALLY

A) Push License Key
B) Configure Management & production IP addresses
C) Install orchestration and management agent

Imagine how easy it is now for data center guy to replace/deploy a network switch
LET’S CHECK HOW THE LIVE INSTALL IS DOING
Questions ?
Thank YOU

Welcome to our Booth #21 on the show floor for more details
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