

Juniper Networks LAB Presentation

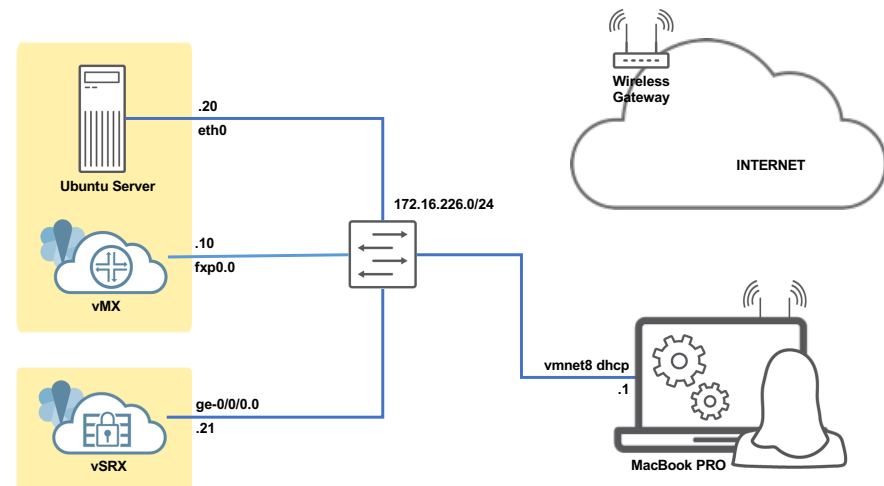
Silvia Murgescu
Email: silvique_ms@yahoo.com

Software Virtual Diagram



Software:

- MacOS Sierra 10.12.6
- VMWare Fusion 8.5.7
- Ubuntu 14.4.1 LTS
- vMX vmx-15.1F4-3
- vSRX vSRX-12.1X47-D10.4-domestic
- SecureCRT 8.1.3
- Eclipse 4.6.3
- Python 2.7.13



Silvia Murgescu
Email: silvique_ms@yahoo.com

vMX Logical Diagram

C:\

vMX Start

1. Connect to Ubuntu Server:

```
ssh silvia@172.16.226.20
password:
```

2. Initialize vMX router:

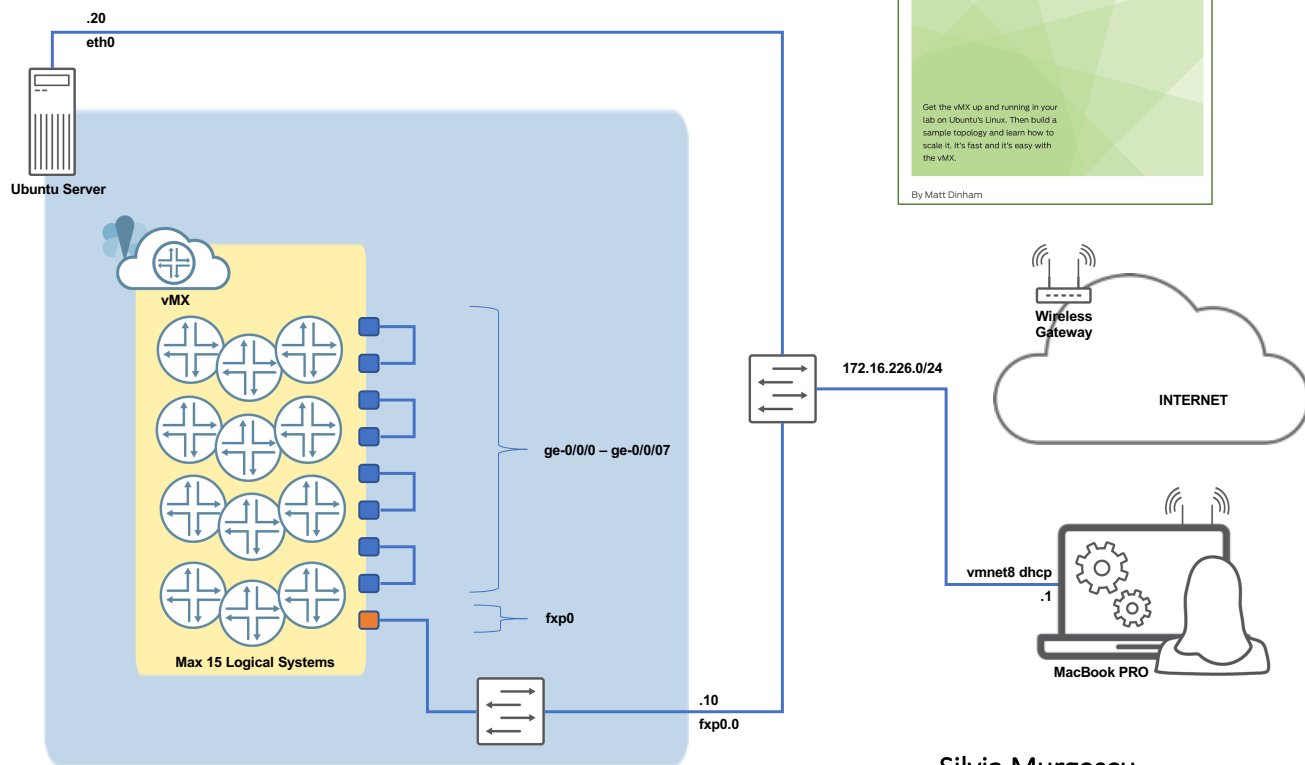
```
cd vmx-15.1F4-3/
sudo ./vmx.sh -lv --install
brctl show
sudo ./vmx.sh --bind-check
sudo ./vmx.sh --bind-dev
```

3. Connect to console and

```
configure fxp0 interface:  
sudo ./vmx.sh --console vcp vmx1
```

4. Connect to vMX Router:

```
ssh silvia@172.16.226.10
```



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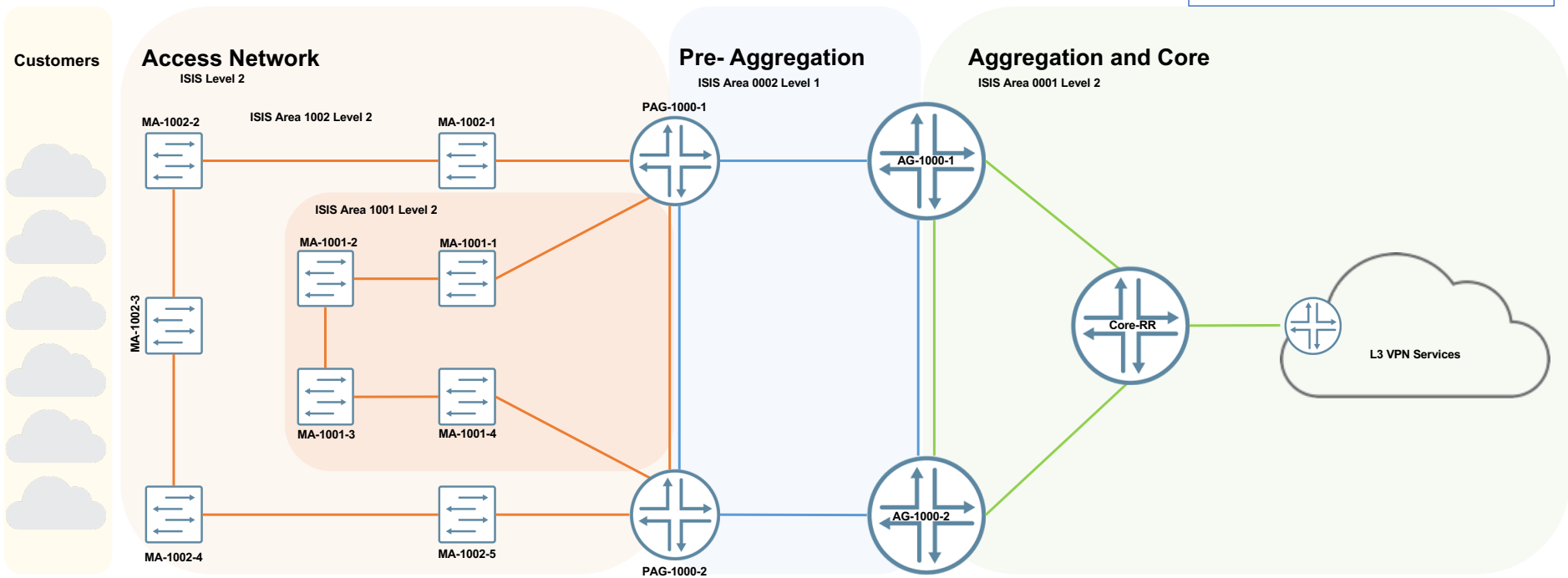
Network Diagram

JUNIPER
NETWORKS

Design Guide



UNIVERSAL ACCESS AND
AGGREGATION MOBILE
BACKHAUL DESIGN GUIDE



Silvia Murgescu

Email: silvique_ms@yahoo.com

IP Allocation



- SP Network Class: 172.100.0.0/16
 - Core area: 172.100.1.0/24
 - Pre-Aggregation area: 172.100.2.0/24
 - Access Area: 172.100.3.0/24
 - Loopback interfaces: 172.100.255.0/24
 - Network Services: 172.100.254.0/24
- Services: 10.10.0.0/16
- Customers: 192.170.0.0/16

ICONS



Network Lines are
1.5pt line weight



Third party product
virtually running any
Juniper software



Use yellow glow for
VIRTUAL PRODUCTS
ONLY



Command Line
Interface



Northstar
Controller



Contrail
Controller



Contrail
vRouter



Junos Telemetry
Interface



L2-L3
Switch



Juniper
Logical Router



Juniper
L2-L3
Switch



Folder



Open Folder



Scripts



Ideas



Network
Automation



Laptop



Wireless
Laptop



Generic
Server



Female Behind



Wireless
Gateway

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Email: silvique_ms@yahoo.com