Thomas MERCURIO

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NETWORK AND SECURITY ENGINEER

4 years of Experience in Computer Networks and Security
Master's Degree in Computer Networks and Cybersecurity

SUMMARY

With 4 years of experience in computer networks security and a master's degree, I have handled a wide variety of projects: scripting, network monitoring, network/security design and administration. I thrive in multicultural environments, which served me well in helping my employers succeed in their international activities.

EXPERIENCE

Network and Security Engineer
CNES

Oct. 2019 - Present
Toulouse, France

The National Centre for Space Studies is the French government space agency. CNES is the 4th space agency in the world.

→ My role was to design network and security architectures for internal and spatial projects

Responsibilities

- Troubleshoot connectivity issues
- Deployed new VLANS
- Wrote invitation to tender for different projects
- Designed and implemented multiple VPN interconnexions
- Created a new architecture for the backup system of network and security devices
- Organized the upgrade of the multi-factor authentication (HID ActivID) and backup system (Solarwinds NCM)

Achievements

- ✓ Orchestrated the technical team for change implementation on network and security devices
- ✓ Organized the deployment of 60+ network taps to allow traffic analysis by the Security Operation Center
- ✓ Designed network and security architectures for 6+ spatial projects: SWOT & Spaceship (NASA), SVOM (CNSA), Alphasat (ESA), Pléiades (CNES), MMX (JAXA)

Network Engineer
AIR FRANCE

Aug. 2016 - Aug. 2019
Sophia Antipolis, France

Flag carrier of France, subsidiary of the Air France–KLM Group.

→ My role was to improve the network monitoring tools and to manage datacenter's network devices

Responsibilities

- Assessed AVI Network Vantage load balancing product
- Configured sFlow monitoring on OpenVSwitch on an OpenStack private cloud environment
- Developed Python scripts to process sFlow flat files and send the data into a timeseries database via REST API
- Implemented virtual servers on F5 load-balancing devices
- Managed monitoring tools Cacti and Centreon: upgrades, new configurations, plugins management, scripting
- Made 20+ network weathermaps on Cacti then Centreon to improve network monitoring

Achievements

- ✓ Trained around 20 team members twice a year on how to better use the new monitoring tools
- ✓ Deployed a new network monitoring stack to improve data visualization and data retention
- ✓ Designed and implemented a new Netflow collection system used by 500+ network devices

Reason for leaving: *Wanted a more network security-oriented job*

Network and Security Technician
EURECOM

<div align="right">Nov. 2015 - Jul. 2016
Sophia Antipolis, France</div>

French Graduate school and a research center in digital sciences.

→ My role was to manage network and security systems on campus and datacenter environment

Responsibilities
- Administered multi-factor authentication system with 150+ users
- Managed multi-factor authentication system (RSA SecurID) and printer accounting system (Canon Uniflow)
- Implemented configuration updates on Checkpoint and Fortinet firewalls, Cisco routing and switching devices

Achievements
- ✓ Installed a new Fortinet FortiGate firewall cluster and migrated over 100+ rules from a Checkpoint firewall
- ✓ Provided support for 500+ users for any network/security issue
- ✓ Conducted security audit on Linux servers

Reason for leaving: Wanted to complete a master's degree with a cybersecurity major

EDUCATION

Master's Degree in Computer Networks and Systems Security
ESIEE Paris (5th engineering school in France, 1st in Paris Region)

<div align="right">2016 - 2019
Paris, France</div>

ACP Data Science & Predictive Analytics for business professionals
University of California, Irvine (8th Public University in United States)

<div align="right">2018 - 2019
Irvine, United States</div>

Associate's Degree in Computer Networking and Telecommunications
University Institute of Technology

<div align="right">2013 - 2015
Sophia Antipolis, France</div>

CERTIFICATIONS

Juniper Networks Certified Associate (JNCIA-Junos)
Pearson VUE

<div align="right">2019
Paris, France</div>

TOEIC Listening and reading - 970/990 - C1 Level
ETS

<div align="right">2018
Paris, France</div>

TECHNICAL SKILLS

Technology	Skills	Expertise	Details
Switches & Routers Cisco 29XX, 36XX, 3X50x, 65XX Cisco Nexus 2K, 5K & 7K Alcatel Omniswitch	Configuration	★★★★★	**4 years of experience** Multiple trainings from Cisco and Juniper
	Administration	★★★★★	
Load balancers F5 BIG.IP, Avi Networks **Firewalls** Palo Alto, Fortinet, Checkpoint **Monitoring** Centreon, Cacti, PMACCT Grafana + InfluxDB + Chronograf Netflow, sFlow, SNMP	Troubleshooting	★★★★☆	
Network Protocols VLAN, 802.1Q, Spanning Tree (MST, PVST), EtherChannel, VPC, HSRP/VRRP, static and dynamic routing, OSPF, VRF, ACL, NAT	Analysis Implementation Network design	★★★★★	**4 years of experience**
Languages Python, Bash, PHP, C	Scripting	★★★★☆	**2 years of experience**

LANGUAGES

French   Native
English   Fluent, studied in the United States for 6 months