

WORKSHOP GARR 2025

NET MAKERS

Network Automation

l'evoluzione

Giancarlo Viola

3 Novembre 2025

Indice

- **Dove eravamo rimasti**
- **Cosa e' successo nel mentre**
- **Cosa succedera'**

ci siamo lasciati con PACMAN

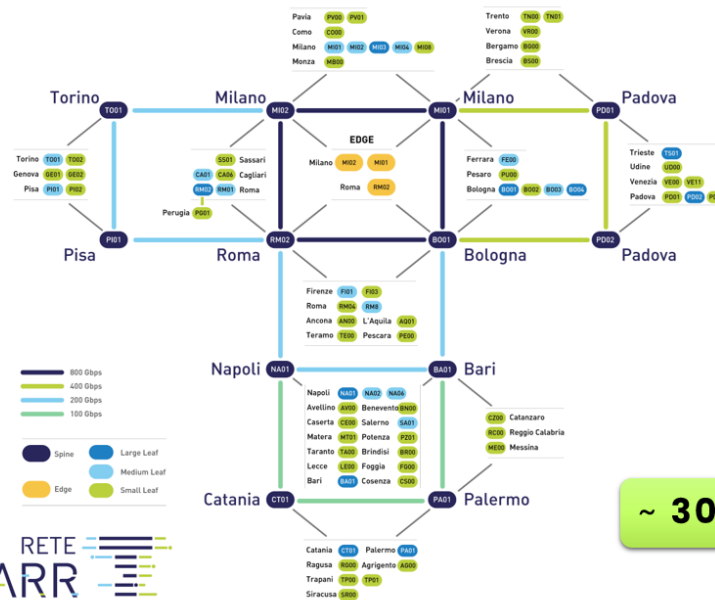


PACMAN: one step to network automation

Giancarlo Viola
GARR

Novembre 2024

Stato dell'arte



- PTX 10004: **1 di 6**
- PTX 10001-36MR: **2 di 8**
- MX 204: **24 di 80**
- MX 480: **5 di 31**
- MX 304: **5 di 5**
- MX 10003: **1 di 5**
- JRR 200: **4 di 4**

~ 30% sono gestiti da PACMAN

Giancarlo Viola - GARR

23

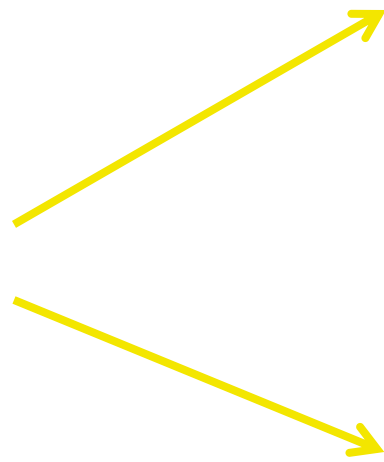


e poi ?

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Evoluzione del sistema



Estensione dei modelli di servizi di rete supportati

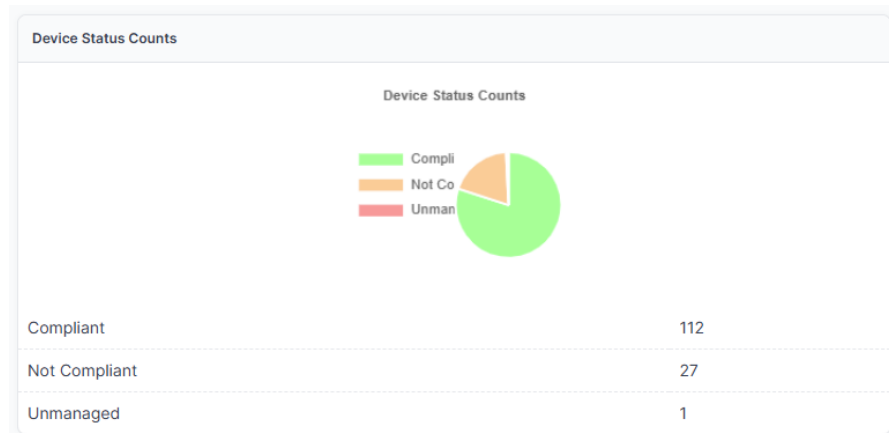


qualche bug in meno

Integrazione con Netbox



+



PACMAN Designed Configurations

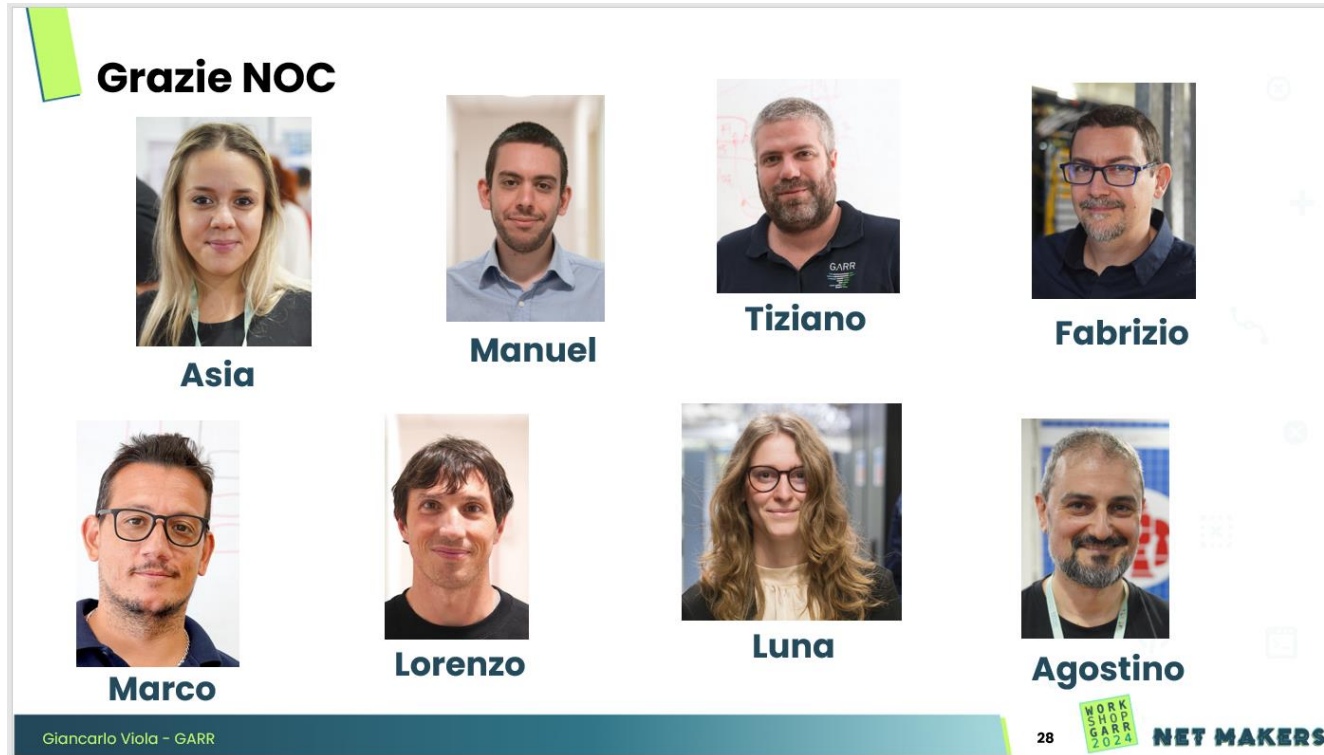
Results 140

Filters

Quick search

CONFIG	STATUS	DIFF COUNT	RUNNING CONF COMMIT AUTHOR	COMMIT DATE	DEVICE	DEVICE TYPE
rs1.rm02.garr.net	Compliant	0	ercoli	2025-10-08 10:03:42	rs1.rm02	Juniper PTX10004
r12.fi01.garr.net	Compliant	0	capircio	2025-10-01 17:46:01	r12.fi01	Juniper MX204
r11.mb00.garr.net	Compliant	0	petrianni	2025-10-24 16:26:50	r11.mb00	Juniper MX204
r11.mi02.garr.net	Compliant	0	noc_rescue	2025-10-15 18:40:02	r11.mi02	Juniper MX480
r11.ge02.garr.net	Compliant	0	bataloni	2025-09-19 08:54:36	r11.ge02	Juniper MX204
r11.aq04.garr.net	Compliant	0	mora	2025-10-24 08:48:45	r11.aq04	Juniper MX204
re1.rm02.garr.net	Compliant	0	mora	2025-10-08 08:55:04	re1.rm02	Juniper MX10003
r13.na01.garr.net	Compliant	0	mora	2025-09-26 09:12:11	r13.na01	Juniper MX304
r11.mi01.garr.net	Compliant	0	mora	2025-10-08 08:16:19	r11.mi01	Juniper MX204

Estensione a tutto il Backbone GARR-T



TUTTI i router del Backbone GARR (140) sono configurati attraverso PACMAN

...PAC party

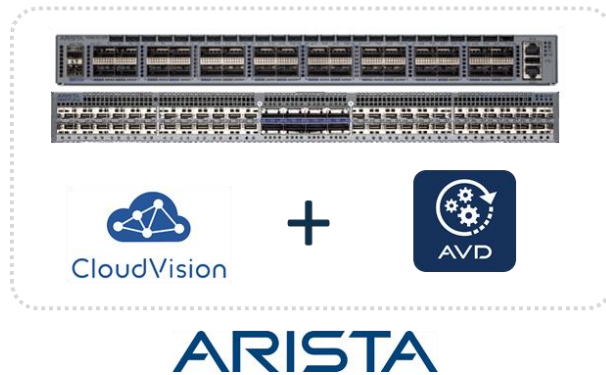


...ma solo su GARR-T?

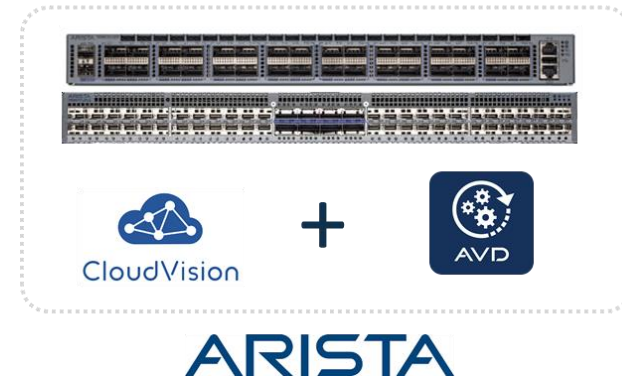
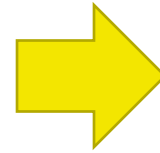
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Evoluzione Automazione nei DC



Data Center INFRA
(RM01 - RM02 - RM06 - BA01 - BO06)



Data Center INFRA
(RM01 - RM02 - RM06 - BA01 - BO06)

Evoluzione Automazione nei DC

JUNIPER
NETWORKS



PACMAN-DCN



ARISTA

Data Center INFRA

(RM01 - RM02 - RM06 - BA01 - BO06)

Cloud GARR

(NA02 - CT01 - PA01)

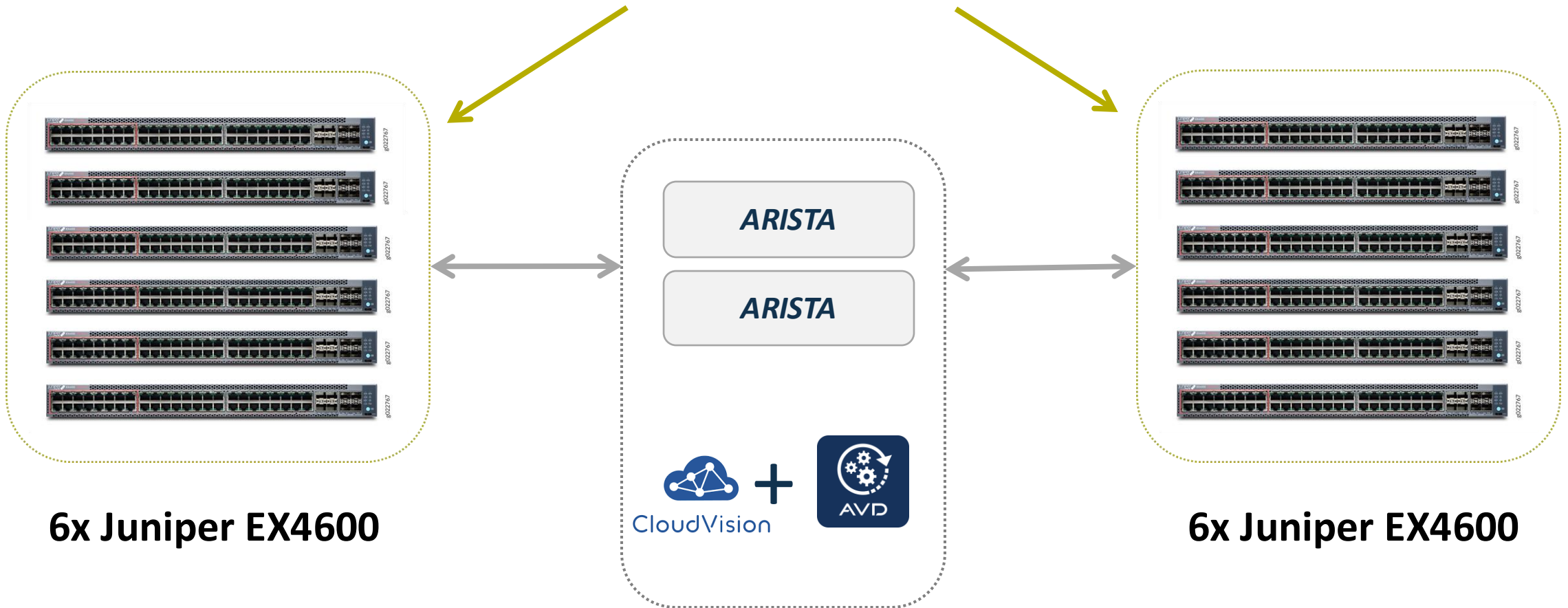
...ma solo su GARR-T e Data Center?

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LAN della Direzione GARR

PACMAN-DIREZIONE

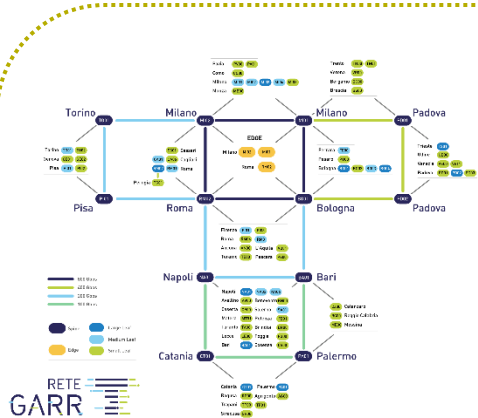


ToDo

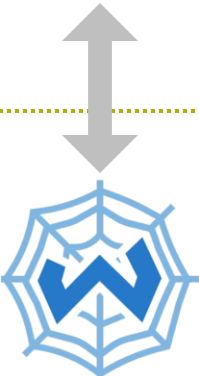
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PACMAN Galaxy



PACMAN-GARR-T



Workflow Orchestrator

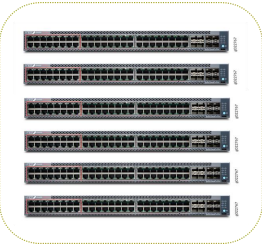
JUNIPER NETWORKS

ARISTA

CloudVision + AVD

PACMAN-DCN

PACMAN-DIREZIONE



Router Utente

PACMAN-CPE

Grazie

(giancarlo.viola@garr.it)

per le domande: wooclap.com e codice **WSGARR25**



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