

Modules / VMs

Module	Component	Required	Link
CNaaS-NMS	API	Yes	https://cnaas-nms.readthedocs.io/en/latest/
	ZTP DHCP	Yes	
	PostgreSQL	Yes	
	Redis	Yes	
	HTTP	Yes	
CNaaS-Front	WebUI	No	https://github.com/SUNET/cnaas-front/
SUNET Auth	JWT auth	Yes	https://github.com/SUNET/auth-server-poc
CNaaS-NAC	API	No	
	Radius	No	
	Postgres	No	
	Captive Portal	No	
Monitoring	NAV	Yes	https://nav.uninett.no/
	Nagios	Yes	https://www.nagios.org/
	Syslog	Yes	Graylog
IPAM	IPAM	No	https://spritelink.github.io/NIPAP/ https://github.com/digitalocean/netbox
	Client DHCP	No	
Backup	oxidized	No	https://github.com/ytii/oxidized
Inventory	NI	No	https://github.com/SUNET/ni netbox?
Security	Netflow	No	
	SIEM?	No	
	Vulnerability scanner	No	

Each module will run in a separate Virtual Machine, and each component in that module will run in a separate container.

Virtual Machine requirements

 This sizing information is not verified/tested

Module	Limit	Requirements
CNaaS-NMS large	50-1000(?) managed devices	4 cores 16G RAM 100G disk, medium IOPS
CNaaS-NMS small	1-50 managed devices	2 cores 8G RAM 50G disk, medium IOPS
CNaaS-NAC	10 000 clients	4 cores 4G RAM 200G disk, medium IOPS

NAV large	200 managed devices	8 cores 32G RAM 100G disk, high IOPS
graylog large	200 managed devices	8 cores 16G RAM 50G disk, low IOPS
auth/front/ni	200 managed devices	1 cores 1G RAM 40G disk, low IOPS