



# FreeNAS@Microserver Gen8

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Polish BSD User Group, 13.12.2018 r.

free and open-source

FreeBSD and OpenZFS

- SMB/CIFS
- NFS
- FTP/TFTP
- iSCSI
- WebDAV
- rsync
- SSH
- LACP
- VLAN

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- iSCSI
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- rsync
- SSH
- LACP
- VLAN
- AD
- zsh
- GELI
- Plugins
- Jails/VMs
- S3
- UPS
- S.M.A.R.T.
- Slack

- GELI
- Snapshoty
- Replikacja



Log In

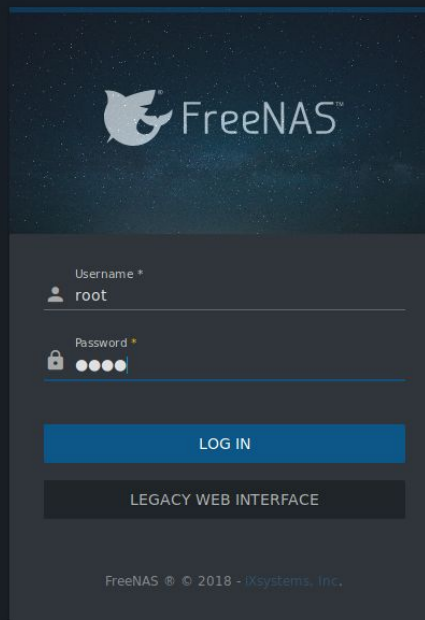
Welcome to FreeNAS® 9.3

Username: root

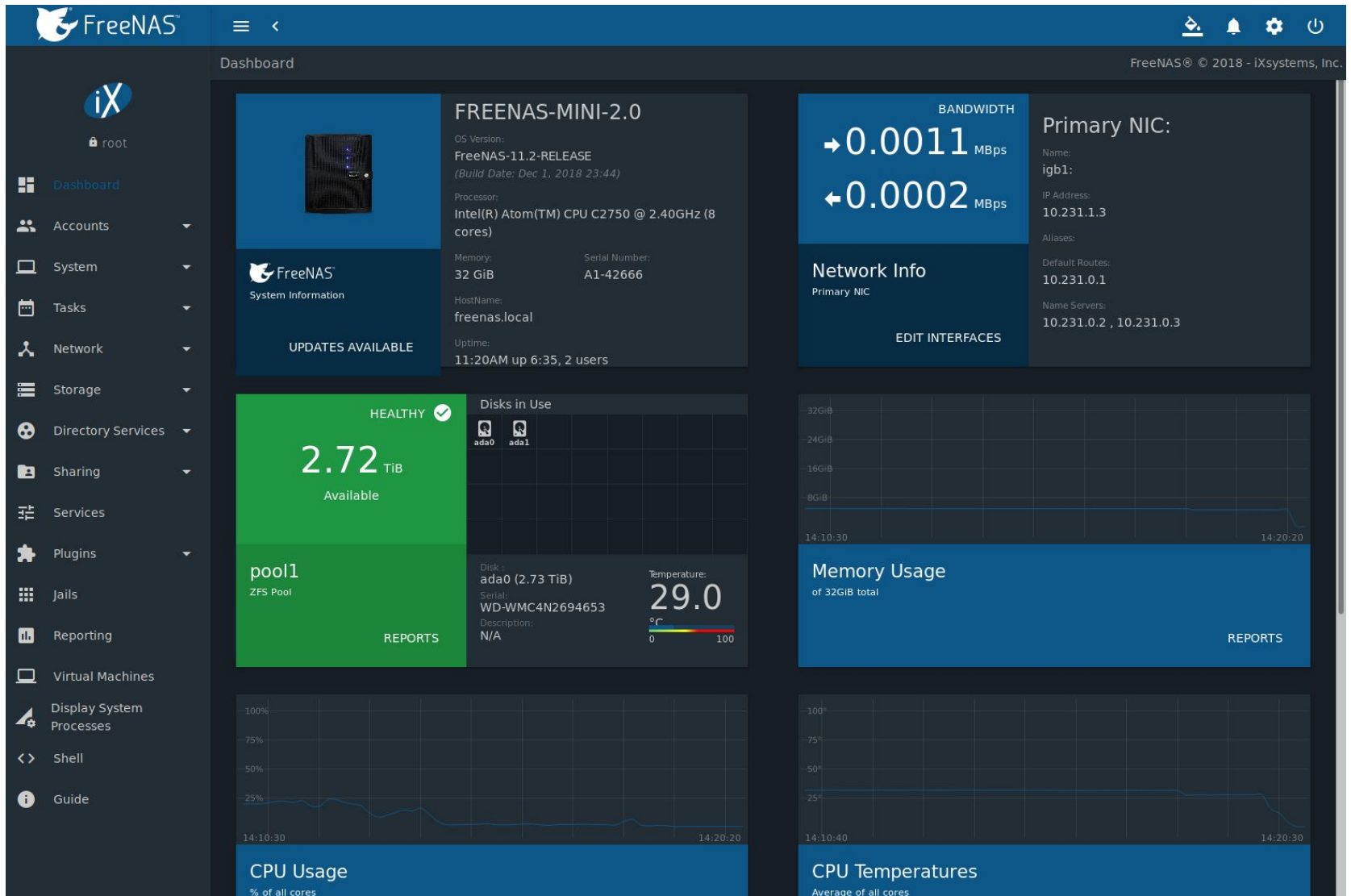
Password:

Log In

FreeNAS 11.2



**FreeNAS 11.2 - nowy UI**



FreeNAS 11.2



FreeNAS™

ix

root

Dashboard

Accounts

System

Tasks

Network

Storage

Directory Services

Sharing

Services

Plugins

Available

Installed

Jails

Reporting

Virtual Machines

Display System Processes

Shell

Guide

PlUGINS / Available

FreeNAS® © 2018 - iXsystems, Inc.

Activated Pool for Jail Manager: pool1

CONFIG

Available Plugins

Filter Available Plugins

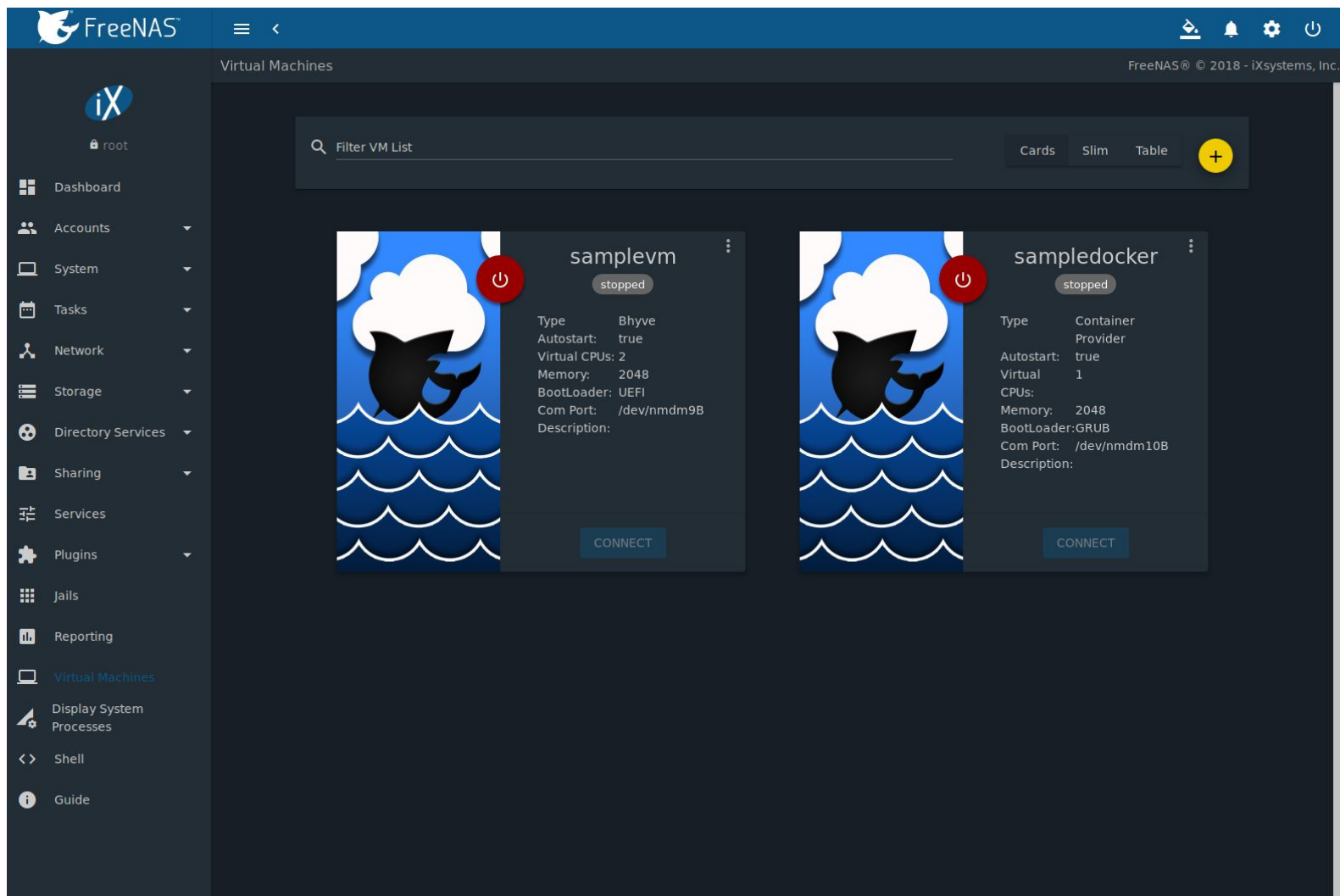
COLUMNS

| Name        | Description                       | Version        | Official |   |
|-------------|-----------------------------------|----------------|----------|---|
| BackupPC    | BackupPC is a high-performar      | N/A            | True     | ⋮ |
| Bacula      | server - programs to manage       | 7.4.7_2        | True     | ⋮ |
| BRU Server  | BRU Server™ Backup and Rec        | N/A            | True     | ⋮ |
| ClamAV      | ClamAV® is an open source a       | 0.100.2        | True     | ⋮ |
| CouchPotato | CouchPotato is an automatic I     | 0.0.20170327_2 | True     | ⋮ |
| Deluge      | Bittorrent client using Python,   | 1.3.15_7       | True     | ⋮ |
| Emby        | Home media server built usin      | 3.5.3.0        | True     | ⋮ |
| GitLab      | Powerful features for modern      | 11.4.4         | True     | ⋮ |
| Irssi       | Irssi is a modular IRC client thi | 1.1.1          | True     | ⋮ |
| Jenkins     | Jenkins CI                        | 2.149          | True     | ⋮ |

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1 2 3

FreeNAS 11.2 pluginy



FreeNAS 11.2 maszyny wirtualne/kontenery



- warden -> iocage
- szyfrowanie w Cloud Sync Tasks



Microserver Gen8

- 4x bay 3,5"
- 1x SATA port
- 2x1Gb Eth
- iLo 4
- 200W PSU
- USB 3.0
- 2013 rok
- mods



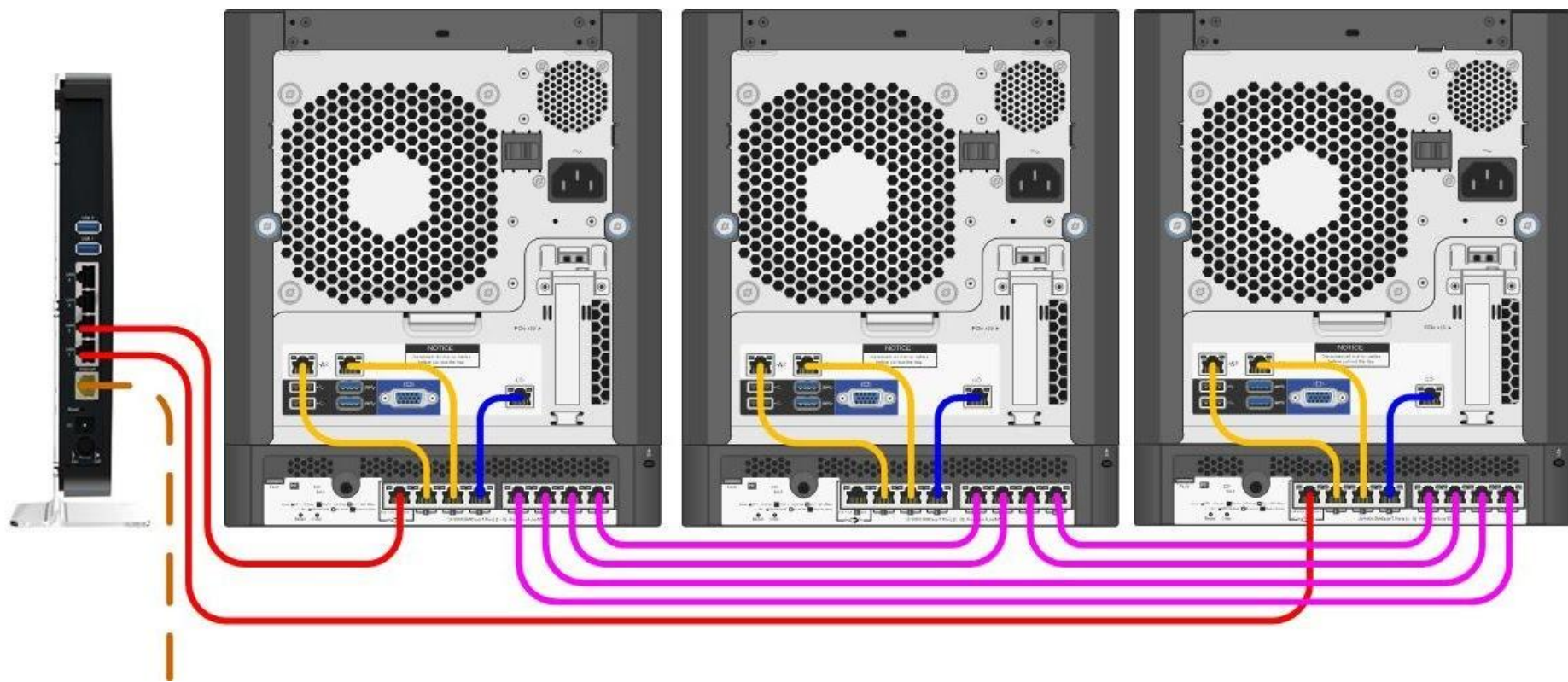
**Microserver Gen8**

- Celeron G1610T
- 4GB RAM

~1000 PLN\*

\*cena brutto

**Microserver Gen8 Podstawowa konfiguracja**



<http://www.cheesyboofs.co.uk/esxi-vsan-microserver-homelab>

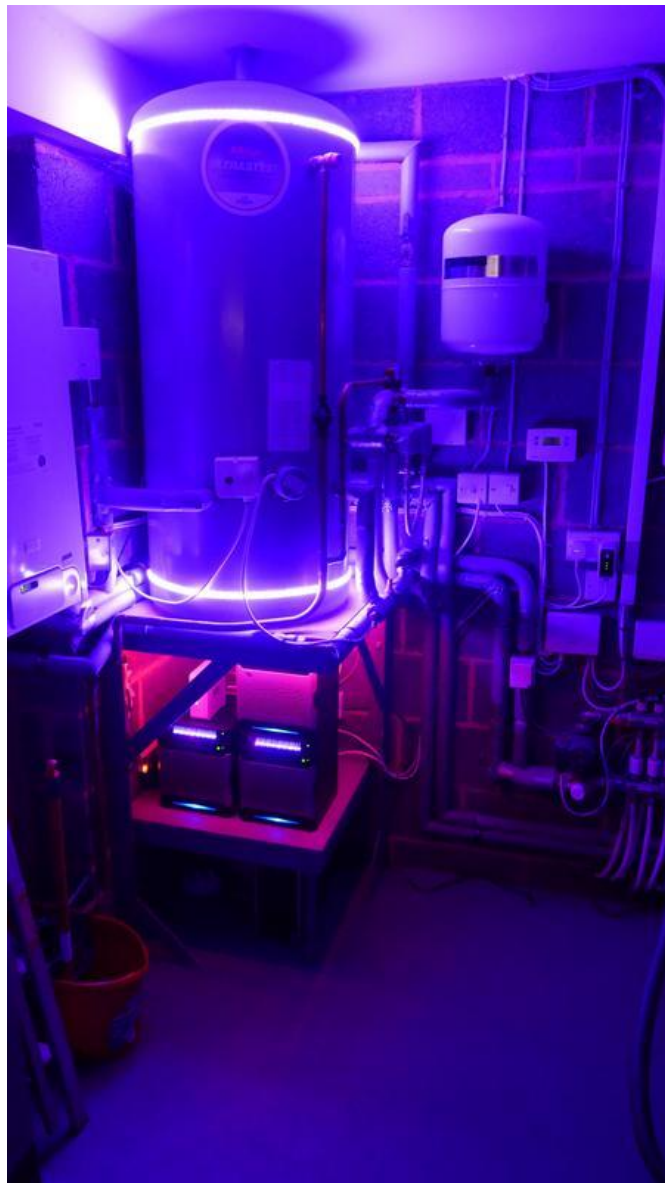
**Microserver Gen8 klaster**





<http://www.cheesyboofs.co.uk/esxi-vsan-microserver-homelab>

**Microserver Gen8 klaster**



<http://www.cheesyboofs.co.uk/esxi-vsan-microserver-homelab>

**Microserver Gen8 klaster**

- Celeron G1610T (TDP 35W)
- Pentium G2020T (TDP 35W)
- i3 3240 (TDP 65W) ~60 PLN\*
- Xeon E3-1220L-V2 (TDP 17W)  
~800 PLN\*

\*cena brutto

**Microserver Gen8 CPU - wspierane oficjalnie**

- i3-3240T (TDP 35W)
- i5-3470T (TDP 35W)
- Xeon E3-1265L-V2 (TDP 45W)  
~700 PLN\*
- Xeon E3-1220-V2 (TDP 69W)  
~300 PLN\*
- Xeon E3-1230-V2 (TDP 69W)  
~500 PLN\*
- AES, ECC

\*cena brutto

**Microserver Gen8 CPU wsparcie nieoficjalnie**

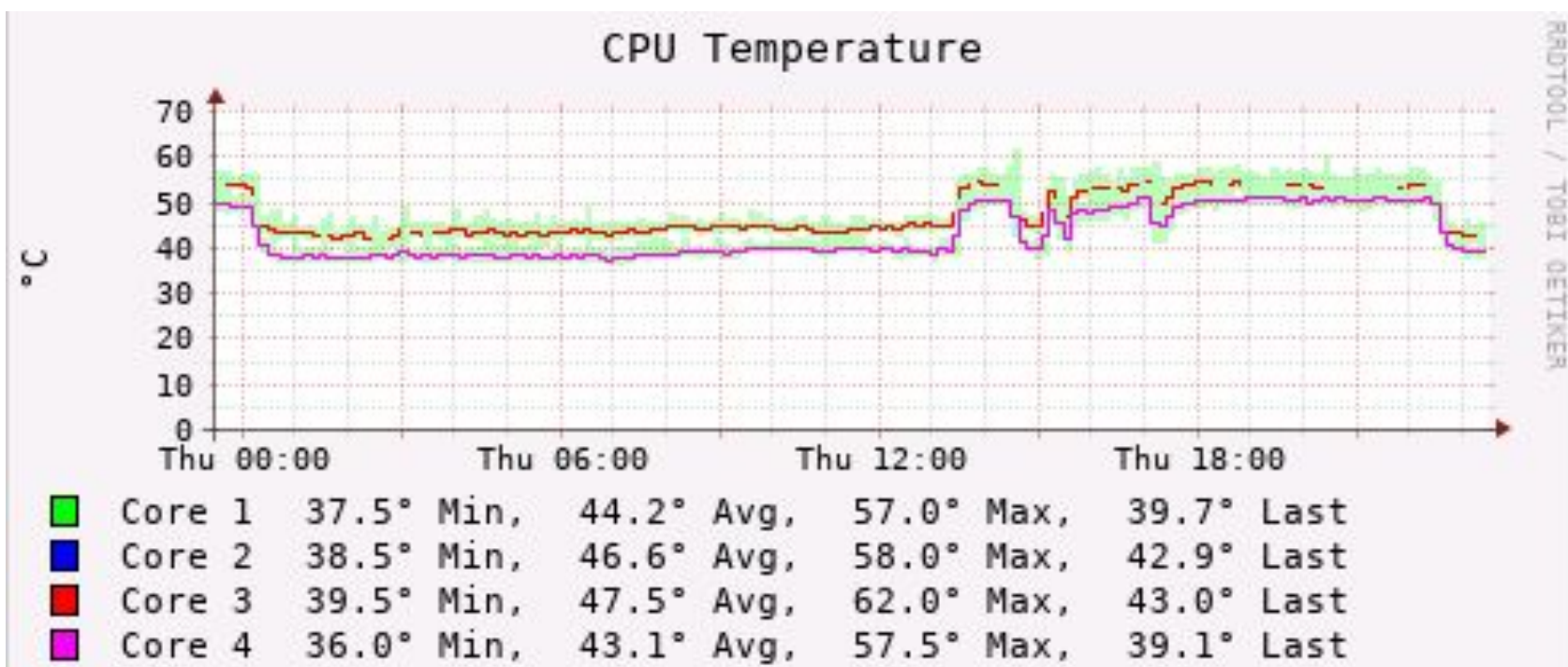


Microserver Gen8 CPU chłodzenie



Microserver Gen8 CPU chłodzenie





Microserver Gen8 CPU chłodzenie

- Type: HP SmartMemory, DDR3  
Unbuffered (UDIMM)
- DIMM slots available: 2
- Standard: 4GB (1 x 4GB)  
PC3L-12800E DDR3 UDIMM
- Maximum: 16GB (2 x 8GB)  
PC3-12800E DDR3 UDIMM



- Pod naklejką - Hynix
- tylko 16GB (2x8GB)
- 8GB - ~300 PLN\*

\*cena brutto

**Microserver Gen8 RAM**

- HP Dynamic Smart Array B120i controller
- RAID 0 / RAID 1
- RAID 5?
- co zamiast? PERC H310 flash do LSI 9211-8I w trybie IT ~100 PLN\*

\*cena brutto

- Non-hot plug SATA: 16TB  
(4 x 4TB) 3.5-inch SATA



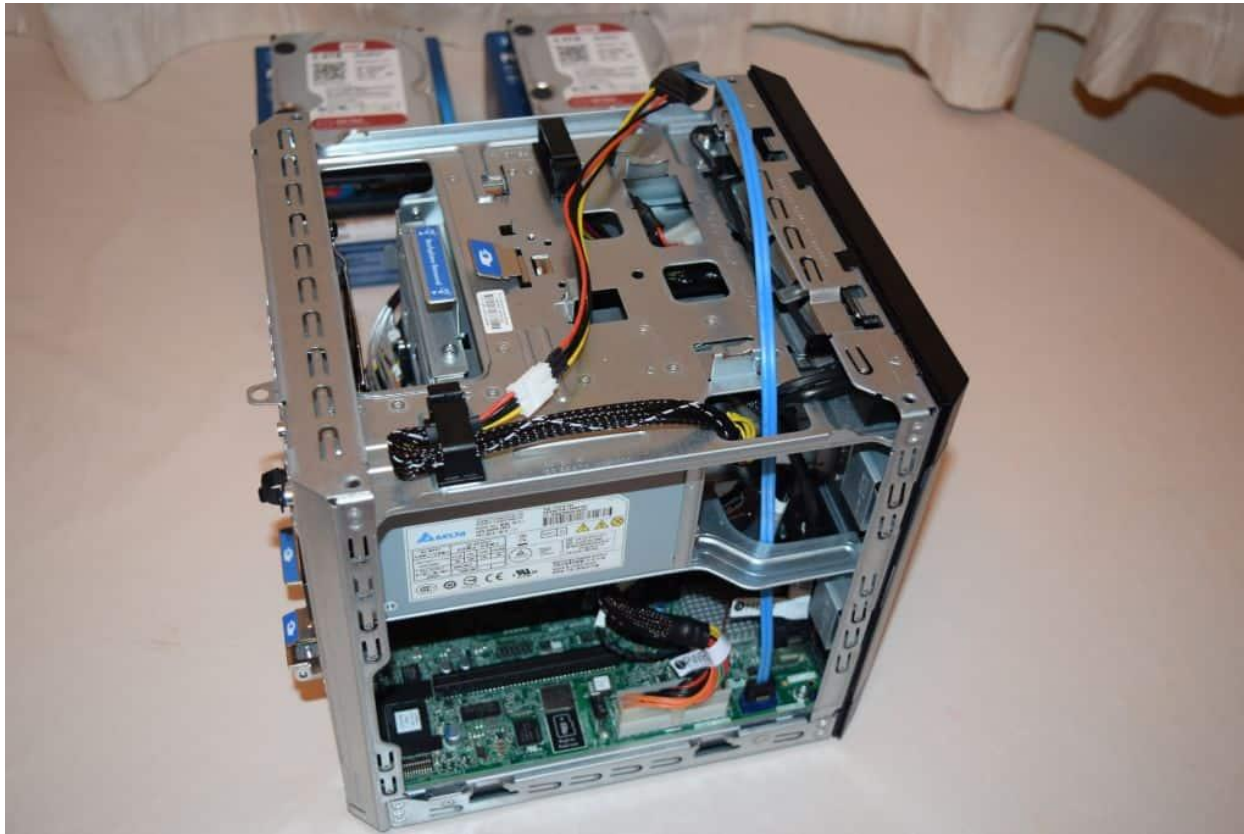
**Microserver Gen8 Storage**



@JohnStutsman

<https://damow.net/building-a-home-server/>

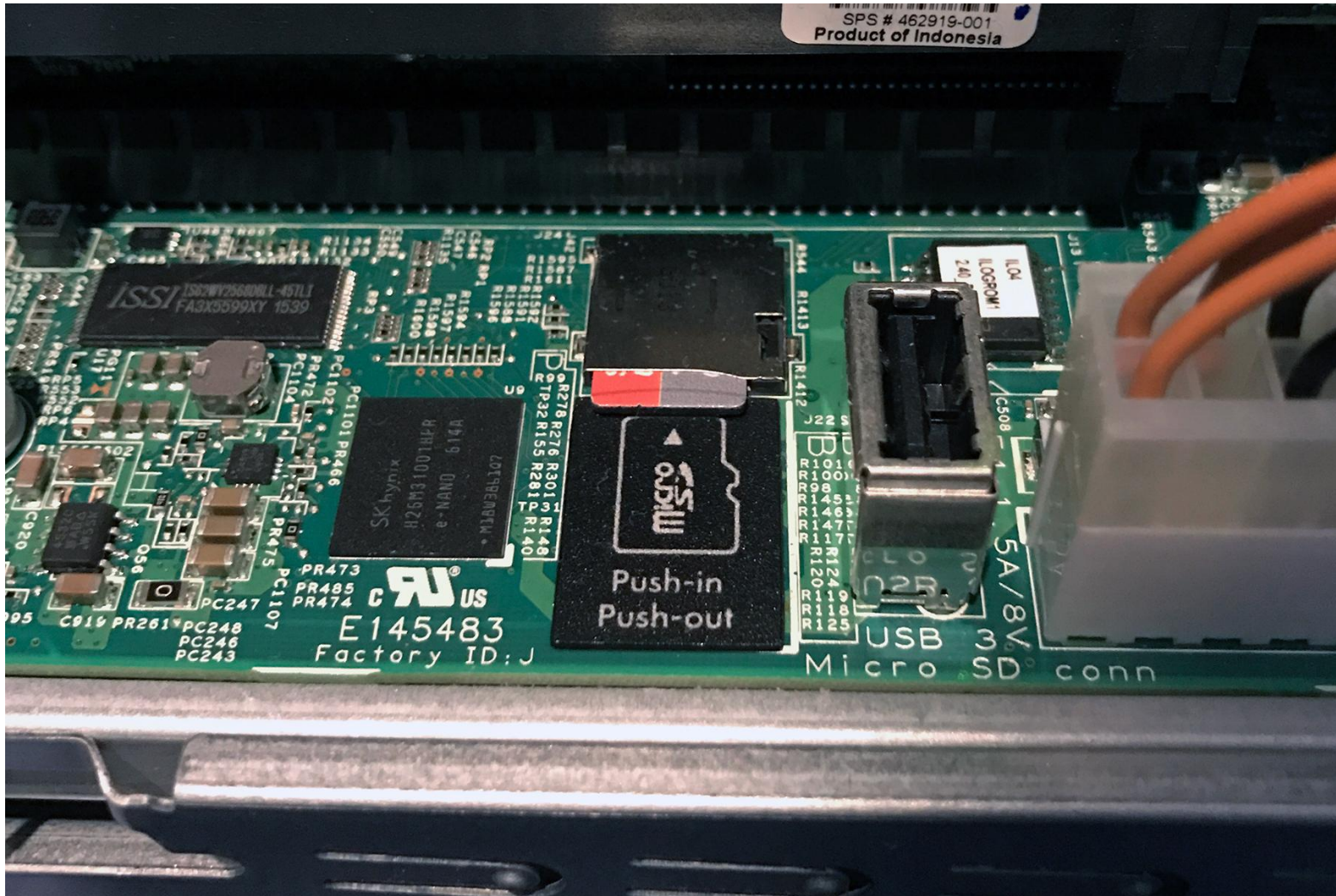
# Microserver Gen8 Storage



<https://www.admfactory.com/hp-microserver-gen8-install-ssd-in-odd-slot/>

## Microserver Gen8 Storage





Microserver Gen8 Storage

- CPU – E3-1220v2
- RAM –  $\geq$  8GB
- SSD – 1, 2 bay
- HDD – 3, 4 bay
- USB + MicroSD (rozmiar)
- bez dysków SMR

**Thank you!**