## Disk management

Mozeme spravit particie z disku

File systems

NTFS - pre kontatabilitu  
 exFAT - toto podporuju aj linuxy

Allocation unit size - suvisi s storage performance   
 ak tam budeme davat velke subory je lepsie vacsie

Ak neviem necham default – nic s tim nepokazim

Preco by sme chcely mat definove kde bude VM?  
 tj. Particia, specificky priecinok

Pre trouble shooting, restore a backup-u

## Hyper-V

Btw toto je type 1 hypervizor

Add roles and features -> Next -> role-based a next -> vybrat server, next -> hyper-V -> add features -> vsetko ostatne iba next a install

**Add features** chceme lebo su to tools kt nam pomozu s danou rolou a jej spravovanim

A teraz mame v tool – hyper-V management

## Hyper-V konzola

Rozdelena na viacero casty a vieme tam pripojit iny server a tam to vsetko manazovat

Stredna cast je rozdelena na VM, checkpoints, details – tam su info o vm-kach

Na parvo je action pannel

Hyper-V settings  
 2 veci kde je miesto na disk, a kde je miesto na vm-ky a ich files  
 tie su **virtual hard disk** a **virtual machines**

Vzdy to chceme mat pokope

Ak mame viac serverrou mozeme pouzit - **live migration**

Ak mame viacero viacero storagov - **storage migration** - napr presun na vacsi datastorage  
 - presun na rychlejsi datastorage  
 - docastna migracia na trouble shooting

### Network

V hyper-v setting -> virtual switch manager

SEGMENTACIA

Vo firme 3 lany – admin, customer, storage  
 Spravime 2 lany – admin, customer LAN

Takze teraz bude mat 2 sietove adapter kde 1 je do admin lany a 2 do customer lany

Takze musime spravit 2 switche

Internal – su spravene pre zariadenia nasej siete prostet o nejde po public sieti

Teraz lan pre admin-a  
 tam dame internal -> create switch -> meno (vSwitch-AdminLAN-vl100)  
 vlan ID -> enable a 100

INTERNAL NETWORK SWITCH NEPOTREBUJE ZIADNE SIETOVE ADAPTERY

Teraz lan pre customera  
 tam dame internal -> create switch -> meno (vSwitch-AdminLAN-vl100)  
 vybrat externu kartu, a checkbox allow management…  
 vlan ID -> enable a 200

## VLAN

Umoznuje nam z jedneho portu a jedneho kablu, posielat rozny sietovy traffic

HYPER-V JEDEN SITCH MOZE BYT TAGOVANY LEN NA JEDNU VLAN

## HYPER-V SWITCH

Nema port group  
 vlan je nastavena na samotny cely switch

Co vlan to samostatny switch co samostatny switch to samostatna sietova karta

## New VM

Hyper-v manager -> RM server -> new VM -> next -> meno -> next -> gen 2, next -> add ram, dame dynamic memory check box -> admin vlan next -> dame velkost disku next -> install os later, next -> finish

**meno vm je rovnahy ako host name**  
 ak nie musime davat normalne mena koli monitoring a backup

**Dynamic memory** – podla potreby OS sa bude zvysovat, znyzovat  
 - SQL/exchange server nezapiname

Gen 1 iba ak su zariadenia kt nepodporuju gen 2 win 98, winxp,…

Mozeme dat vela disku leto pouzivame - thin storage  
 ak by to bol thick tak by nam to nedovolilo

**Mozeme aj vlozit disk** nie vytvorit to moze byt – migracia  
 troubleshooting  
 backup

### Pridanie 2hej sietovej karty

Ideme rm na vm -> add new -> network card -> tam dame druhu siet. A apply

## Importing VM

Rm na server v hyper-v manager a dame import VM