System dokumentation



2 revisionsfirmaer, Munkebjerg revision og Skibhus revision, i Odense tænker på at blive fusioneret. Inden dette bliver en realitet, vil de starte med at samarbejde omkring administration og revisorerne.

Indhold

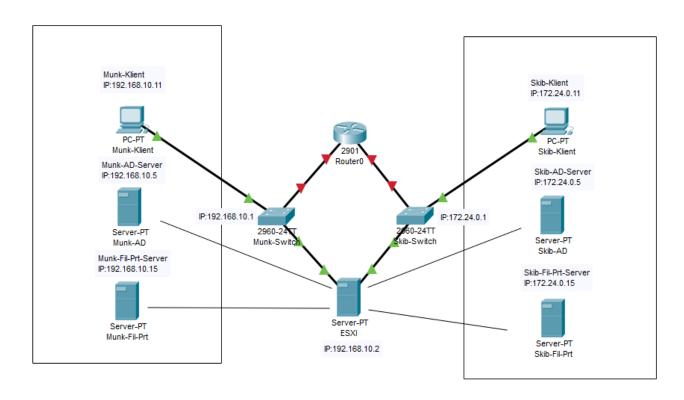
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Admin BC	Faill Ragmarka ar ikka dafinarat

Fase 1

Ip planen for fase 1

1	Munkebjerg:						
2	Netværksadresse	Broadcast	Brugbare ip				
3	192.168.10.0	192.168.10.255	192.168.10.1-254				
4							
5	Skibhus:						
6	Netværksadresse	Broadcast	Brugbare ip				
7	172.24.0.0	172.24.0.255	172.24.0.1-254				
8							
9							
10	Navn/Subnet	Ip adresse	Vlan	Gateway	Subnetmask	Prefix	Brugbar scope
11	ESXI	192.168.10.2		192.168.10.1	255.255.255.0	/24	
12							
13	Munkebjerg						
14	(Routernavn)GI0/0 (Munkebjerg)	192.168.10.1			255.255.255.0	/24	
15	Munk-AD-server	192.168.10.5		192.168.10.1	255.255.255.0	/24	192.168.10.50-100
16	Munk-fil-print-server	192.168.10.15		192.168.10.1	255.255.255.0	/24	
17	Klient PC (Munk)	192.168.10.11		192.168.10.1	255.255.255.0	/24	
18		DHCP: 192.168.10.51					
19	Skibhus						
20	(Routernavn)GI0/1 (Skibhus)	172.24.0.1			255.255.255.0	/24	
21	Skib-AD-server	172.24.0.5		172.24.0.1	255.255.255.0	/24	172.24.0.50-100
22	Skib-fil-print-server	172.24.0.15		172.24.0.1	255.255.255.0	/24	
23	Klient PC (Skib)	172.24.0.11		172.24.0.1	255.255.255.0	/24	
24		DHCP: 172.24.0.51					

Netværks topologi for fase 1



Router opsætning

Enable/Show running-config

```
User Access Verification

Password:
rl>enable
Password:
rl‡show runn
rl‡show running-config
Building configuration...

Current configuration : 1412 bytes
!
! Last configuration change at 12:10:55 UTC Thu Feb 14 2019
!
version 15.4
```

enable secret

```
:
enable secret 5 $1$7hlu$m7vnLF3gqnIR5SBRRcg5R.
!
no aaa new-model
!
```

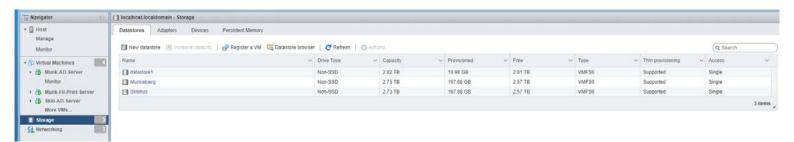
interface configuration

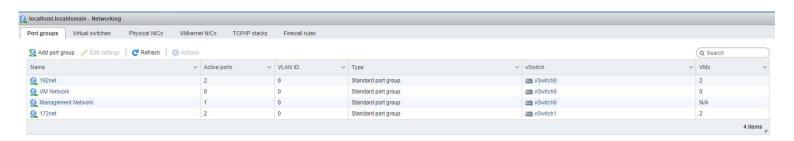
```
!
interface GigabitEthernet0/0
ip address 192.168.10.1 255.255.255.0
duplex auto
speed auto
!
interface GigabitEthernet0/1
ip address 172.24.0.1 255.255.255.0
duplex auto
speed auto
```

telnet opsætning

```
line vty 0 4
password Passwordl
login
transport input telnet
line vty 5 15
password Passwordl
login
transport input telnet
!
```

ESXI

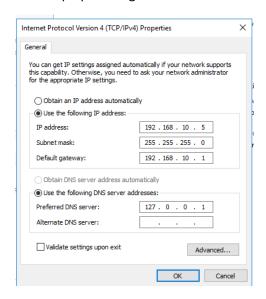




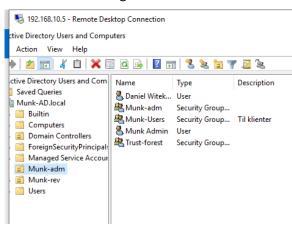


MunkAD

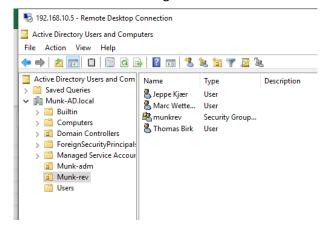
Statisk ip opsætning



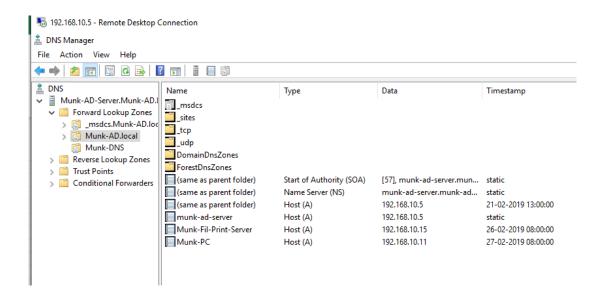
Administrationsbrugere

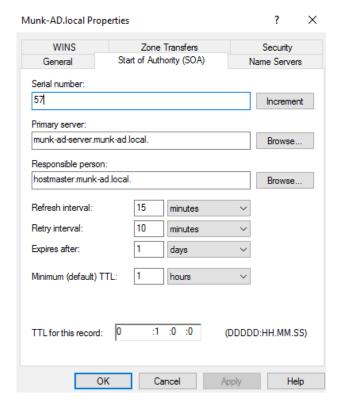


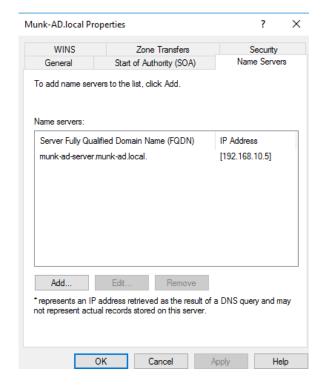
Revisionsbrugere



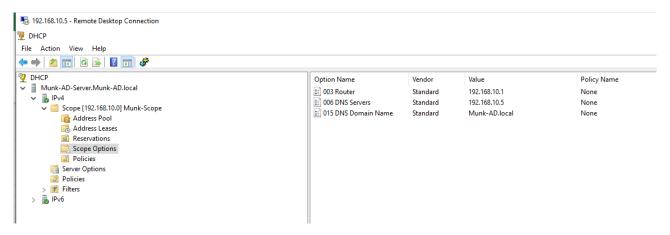
DNS opsætning. SOA og name server

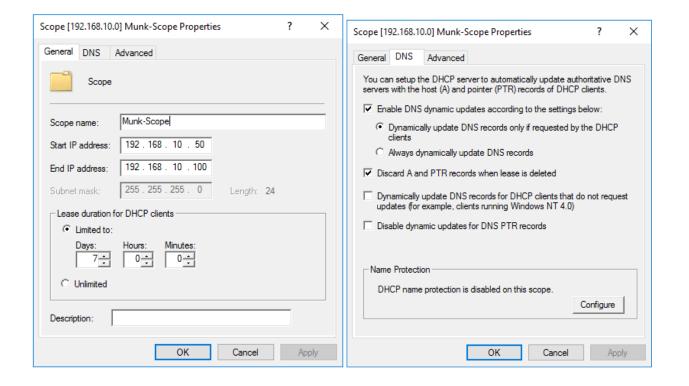






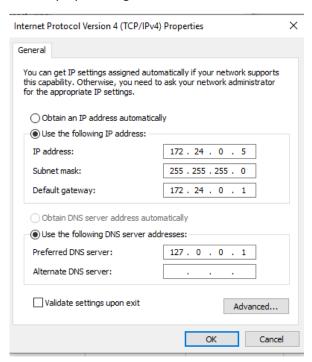
DHCP. Scope properties and options



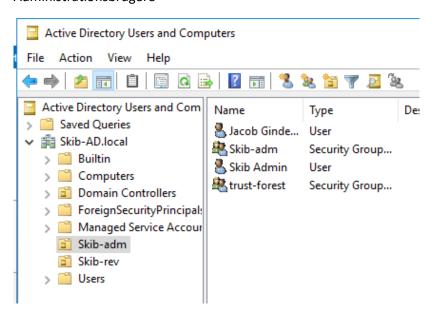


SkibAD

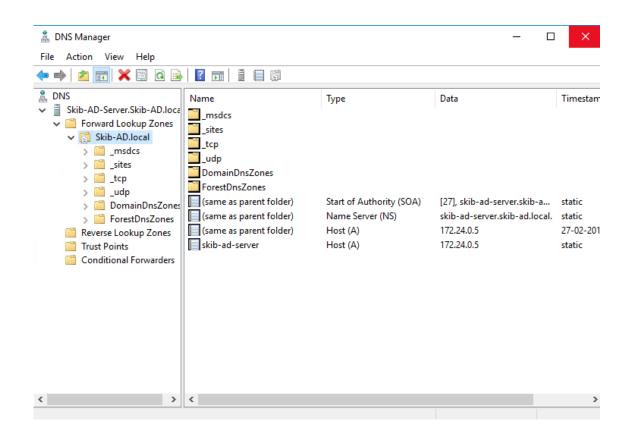
Statisk ip opsætning

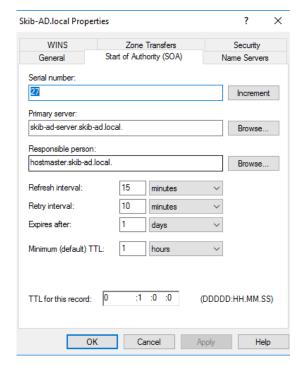


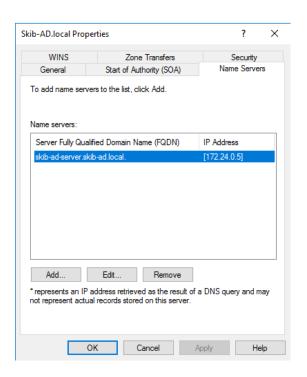
Administrationsbrugere



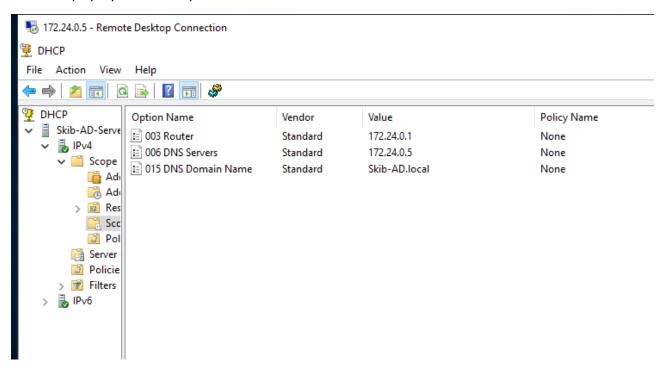
DNS opsætning. SOA og name server

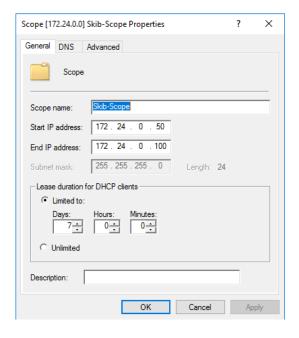


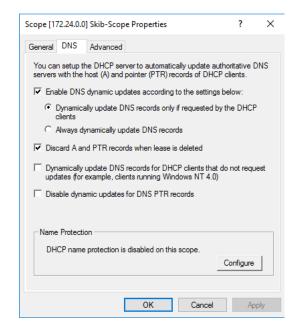




DHCP. Scope properties and options

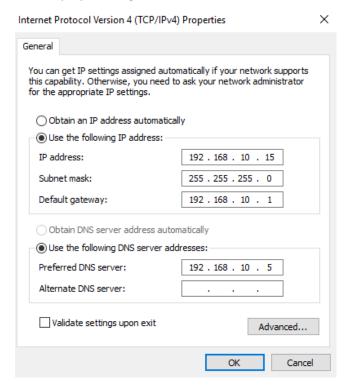


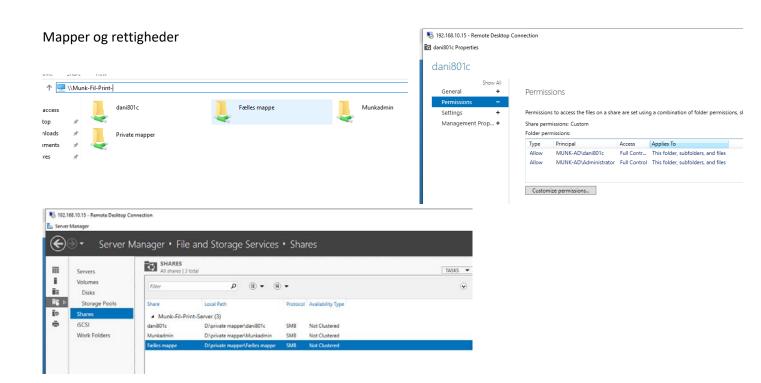




MunkFP

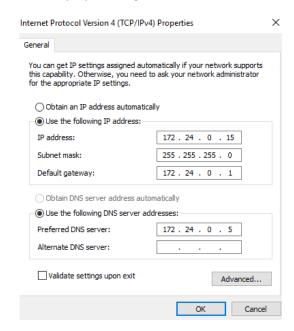
Statisk ip opsætning

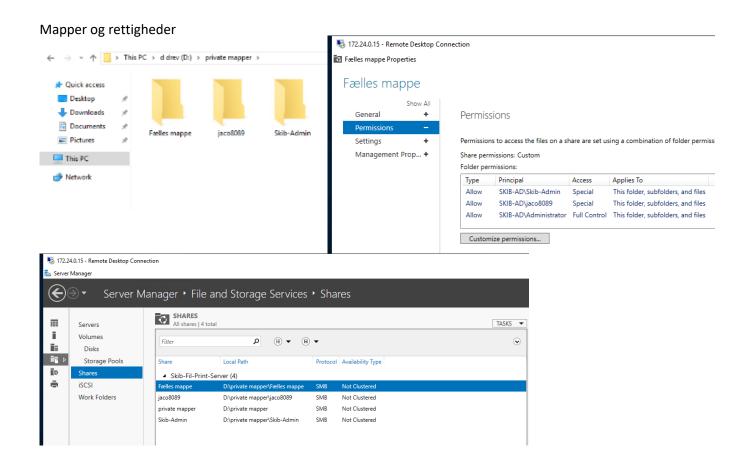




SkibFP

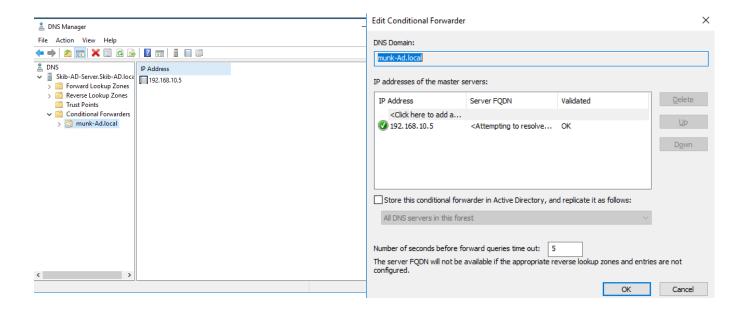
Statisk ip opsætning



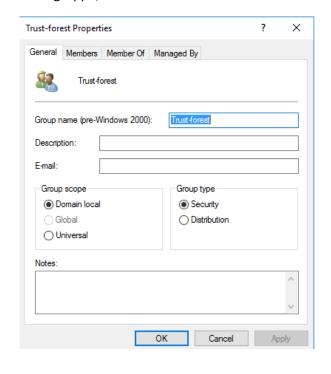


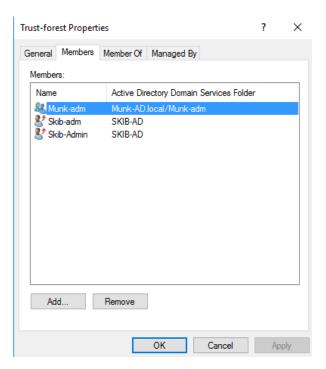
Trust

Conditional forwarder opsætning og indstillinger



Trust gruppe/fobindelse



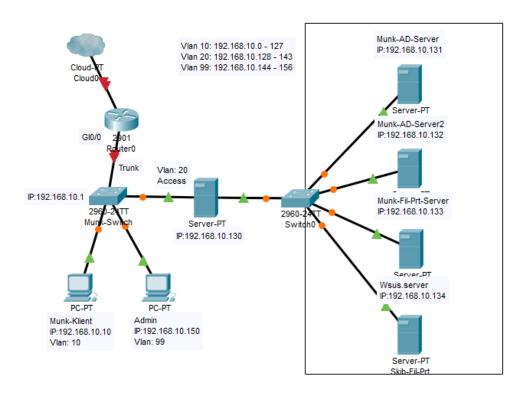


Fase 2

Ip plan for fase 2:

Vlan:	Ip range:	Subnet:				
.10	192.168.10.0 - 127	255.255.255.128				
.20	192.168.10.128 - 143	255.255.255.240				
.99	192.168.10.144 - 159	255.255.255.240				
Navn/Subnet	Ip adresse	Vlan	Gateway	Subnetmask	Prefix	Brugbar scope
Munkebjerg						
(R1) - GI0/0.10 (Klient)	192.168.10.1	10		255.255.255.128	/25	
Klient PC	192.168.10.10	10	192.168.10.1	255.255.255.128	/25	192.168.10.15-30
(R1) - GI0/0.99 (Admin PC)	192.168.10.145	99		255.255.255.240	/28	
Admin PC	192.168.10.150	99	192.168.10.145	255.255.255.240	/28	
Switch SSH		99				
Router SSH	192.168.10.1					
(R1) - GI0/0.20 (Server)	192.168.10.129	20		255.255.255.240	/28	
Munk-AD-server	192.168.10.131	20	192.168.10.129	255.255.255.240	/28	
Munk-AD-server2	192.168.10.132	20	192.168.10.129	255.255.255.240	/28	
Munk-fil-print-server	192.168.10.133	20	192.168.10.129	255.255.255.240	/28	
(WSUS) Windows Server Update Services	192.168.10.134	20	192.168.10.129	255.255.255.240	/28	
ESXI	192.168.10.130	20	192.168.10.129	255.255.255.240	/28	

Netværkstopologi for fase 2:



Router opsætning

SSH-forbindelse:

```
login as: ssh
Using keyboard-interactive authentication.
Password:

rl#show running
rl#show running-config
Building configuration...
```

Password-encryption og enable secret:

```
Current configuration: 2082 bytes
!
version 15.4
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
no service dhcp
!
hostname rl
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$7hlu$m7vnLF3gqnIR5SBRRcg5R.
!
```

SSH bruger med alle rettigheder:

```
!
username ssh privilege 15 password 7 08114D5D1A0E0A05165A
!
```

Ip nat outside:

```
interface GigabitEthernet0/1
ip address dhcp
ip nat outside
ip virtual-reassembly in
duplex auto
speed auto
```

Sub-interfaces med nat inside:

```
interface GigabitEthernet0/0.10
encapsulation dot1Q 10
ip address 192.168.10.1 255.255.255.128
ip helper-address 192.168.10.131
ip nat inside
ip virtual-reassembly in
interface GigabitEthernet0/0.20
encapsulation dot1Q 20
ip address 192.168.10.129 255.255.255.240
ip nat inside
ip virtual-reassembly in
interface GigabitEthernet0/0.99
encapsulation dot10 99
ip address 192.168.10.145 255.255.255.240
ip nat inside
ip virtual-reassembly in
```

Source list/access-list:

```
ip nat inside source list 1 interface GigabitEthernet0/1 overload
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/1
ip ssh version 2
!
!
description of the state of the state
```

Switch opsætning

Switch enable password:

```
S1>enable
Password:
S1#show run
S1#show running-config
Building configuration...
```

Password-encryption og enable secret:

```
service password-encryption
!
hostname S1
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$Z3JK$vHbBrHrS4.CWInSdYM88N/
```

Switchport access:

```
interface FastEthernet0/1
  switchport access vlan 10
  switchport mode access
interface FastEthernet0/2
  switchport access vlan 99
  switchport mode access
  switchport port-security
  switchport port-security mac-address 3c52.8276.db78 vlan access
interface GigabitEthernet0/2
  switchport access vlan 20
  switchport mode access
```

Trunk:

Sl#show int	erfaces trunk			
Port	Mode	Encapsulation	Status	Native vlan
Gi0/1	on	802.1q	trunking	1
Port	Vlans allowed on	trunk		
Gi0/1	10,20,99			
Port	Vlans allowed an	d active in man	agement domain	
Gi0/1	10,20,99			
Port	Vlans in spannin	g tree forwardi:	ng state and n	ot pruned
Gi0/1	10,20,99			

Vlan 10, 20 og 99 / black hole (Vlan 80):

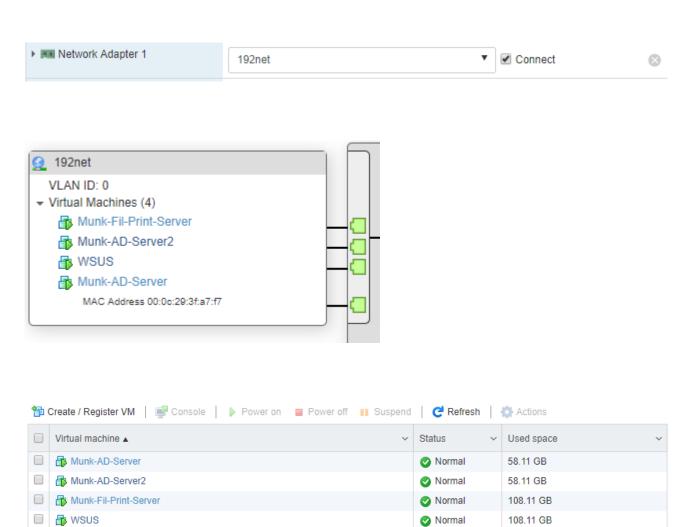
S1#sl	now vlan		
VLAN	Name	Status	Ports
1	default	active	
10	VLAN0010	active	Fa0/1
20	VLAN0020	active	Gi0/2
80	VLAN0080	active	Fa0/3, Fa0/4, Fa0/5, Fa0/6 Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa0/15, Fa0/16, Fa0/17, Fa0/18 Fa0/19, Fa0/20, Fa0/21, Fa0/22 Fa0/23, Fa0/24
99	VLAN0099	active	Fa0/2

EXSI

Netværks adapter for alle serverne:

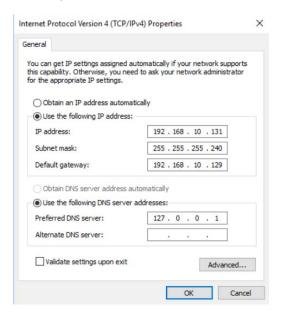
Quick filters...

•

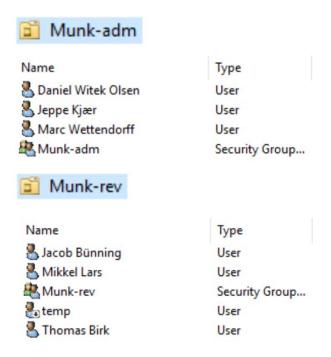


MunkAD1

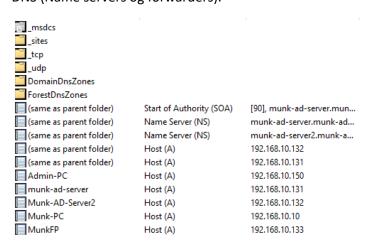
Statisk ip:



Brugere/Grupper:



DNS (Name servers og forwarders):



Name servers:

Server Fully Qualified Domain Name (FQDN)	IP Address	IP Address	Server FQDN
munk-ad-server.munk-ad.local.	[192.168.10.131]	8.8.8.8	google-public-dns-a.google.com
munk-ad-server2.munk-ad.local.	[192.168.10.132]	0.0.0.0	google pablic and algoogle.com

DHCP:

Option Name	Vendor	Value
003 Router	Standard	192.168.10.1
006 DNS Servers	Standard	192.168.10.131
015 DNS Domain Name	Standard	Munk-AD.local
Start IP Address	End IP Address	Description
‡ □ 192.168.10.15	192.168.10.30	Address range for distribution

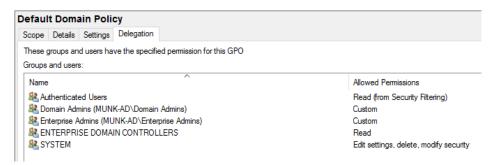
Group Policy:



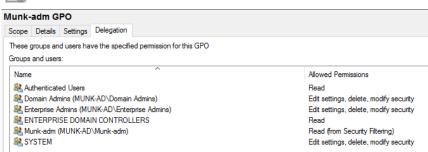
Security Filtering

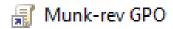
The settings in this GPO can c





Munk-adm GPO



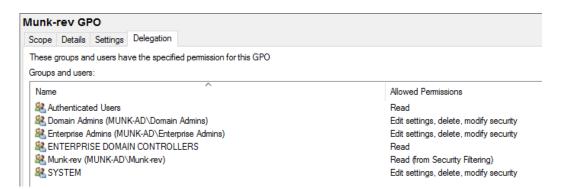


Security Filtering

The settings in this GPO can only apply

Name

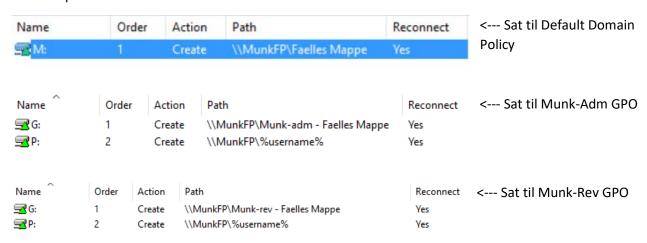
& Munk-rev (MUNK-AD\Munk-rev)



Password Policy (Sat til Default Domain Policy):

Policy	Policy Setting
Enforce password history	24 passwords remembered
Maximum password age	25 days
Minimum password age	1 days
Minimum password length	10 characters
Password must meet complexity requirements	Enabled
Store passwords using reversible encryption	Disabled

Drive maps:

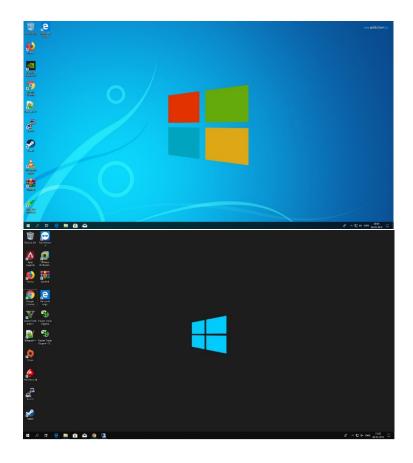


Desktop Wallpaper (Sat på Munk-Rev/Adm – med hver sin baggrund)

<--- "background-rev.jpg / background-adm.jpg"

Klient PC ---->

Admin PC ---->

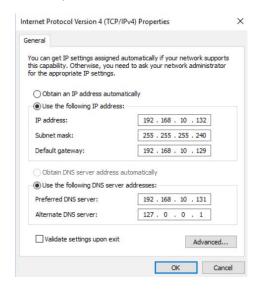


Account lock:

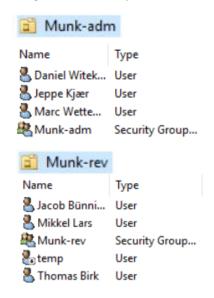
Lavet af: A, C og T	Dato: xx-xx-20xx
Logon audit:	
AD Recycle Bin:	
< Slettede ting kommer ind her	

MunkAD2

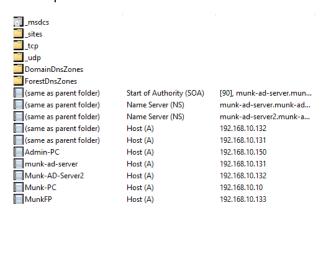
Statisk ip:



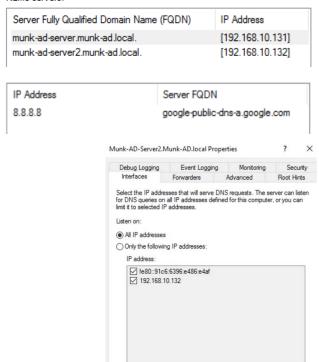
Brugere fra AD1 kopier:



DNS kopi fra AD1:



Name servers:



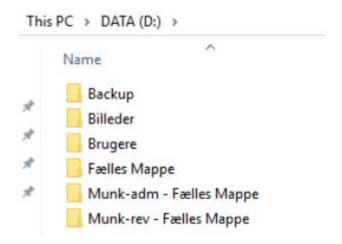
Windows Server Backup:

MunkFP

Statisk ip:

General	
	signed automatically if your network supports you need to ask your network administrator ngs.
Obtain an IP address	automatically
Use the following IP a	ddress:
IP address:	192 . 168 . 10 . 133
Subnet mask:	255 . 255 . 255 . 240
Default gateway:	192 . 168 . 10 . 129
Obtain DNS server ad	dress automatically
 Use the following DNS 	server addresses:
Preferred DNS server:	192 . 168 . 10 . 131
Alternate DNS server:	
Validate settings upo	n exit Advanced

Mapper:



Munk-rev - Fælles Mappe

Munk-adm - Fælles Mappe

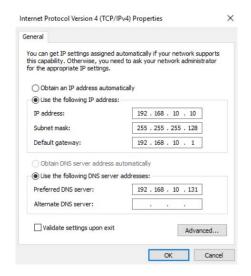


<--- Alle brugere har selv rettigheder til sin egen mappe + Administrator

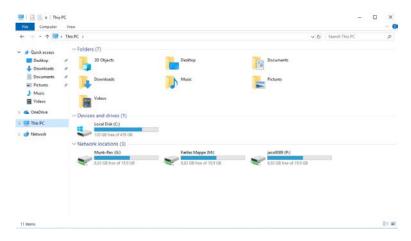


Klient PC

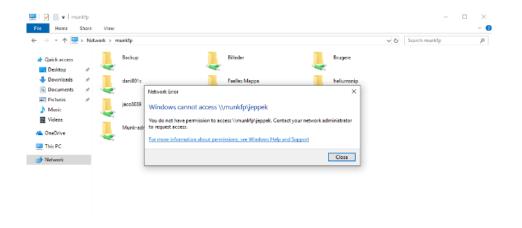
Statisk ip (Da vores DHCP havde en fejl):



Drive Maps:



Kan ikke gå på andres drev:



Statisk ip:

Drive Maps:

