The best network monitoring

Presented by

Mana Kaewcharoen

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MUM 2016 Thailand.

About me

- MANA KAEWCHAROEN
- MikroTik Certified Trainer
- MikroTik Training Center
- MikroTik Academy
- MTCNA,MTCRE,MTCWE
- MTCTCE,MTCUME,MTCINE



CONSULTANT	http://www.mikrotik.com/consultants/asia/thailand
TRAINER	http://www.mikrotik.com/training/partners/asia/thailand
ACADEMY	http://www.mikrotik.com/training/academy/asia/thailand

About Thaimikrotik

- MikroTik Distributor
- MikroTik Training Center
- MikroTik Academy
- Consultant
- MikroTik Solution Center
- ISPTik Cloud Service (MFM)



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What’s CHR?

Cloud Hosted Router (CHR) is a RouterOS version intended for running as a virtual machine.

It supports the x86 64-bit architecture

- VMWare
- Hyper-V
- VirtualBox
- KVM
- RouterBOARD

CHR Licensing

CHR has 4 license levels

License	Speed limit	Price
Free	1Mbit	FREE
P1	1Gbit	$45
P10	10Gbit	$95
P-Unlimited	Unlimited	$250

- Free - The *free* license level allows CHR to run indefinitely. It is limited to 1Mbps upload per interface.
- P1 - (perpetual-1) license level allows CHR to run indefinitely. It is limited to 1Gbps upload per interface.
- P10 - (perpetual-10) license level allows CHR to run indefinitely. It is limited to 10Gbps upload per interface.
- P-Unlimited - (perpetual-unlimited) license level allows CHR to run indefinitely. It is the highest tier license and it has no enforced limitations.

System Requirements

minimal requirements

- 64bit CPU with virtualisation support
- 128MB or more RAM for the CHR instance
- 128MB disk space for the CHR virtual hard drive

How to install

MikroTik provide 4 different virtual disk images.

- RAM disk image (.img file)
- VMWare disk image (.vmdk file)
- Hyper-V disk image (.vhdx file)
- VirtualBox disk image (.vdi file)

Download : http://www.mikrotik.com/download

How to install

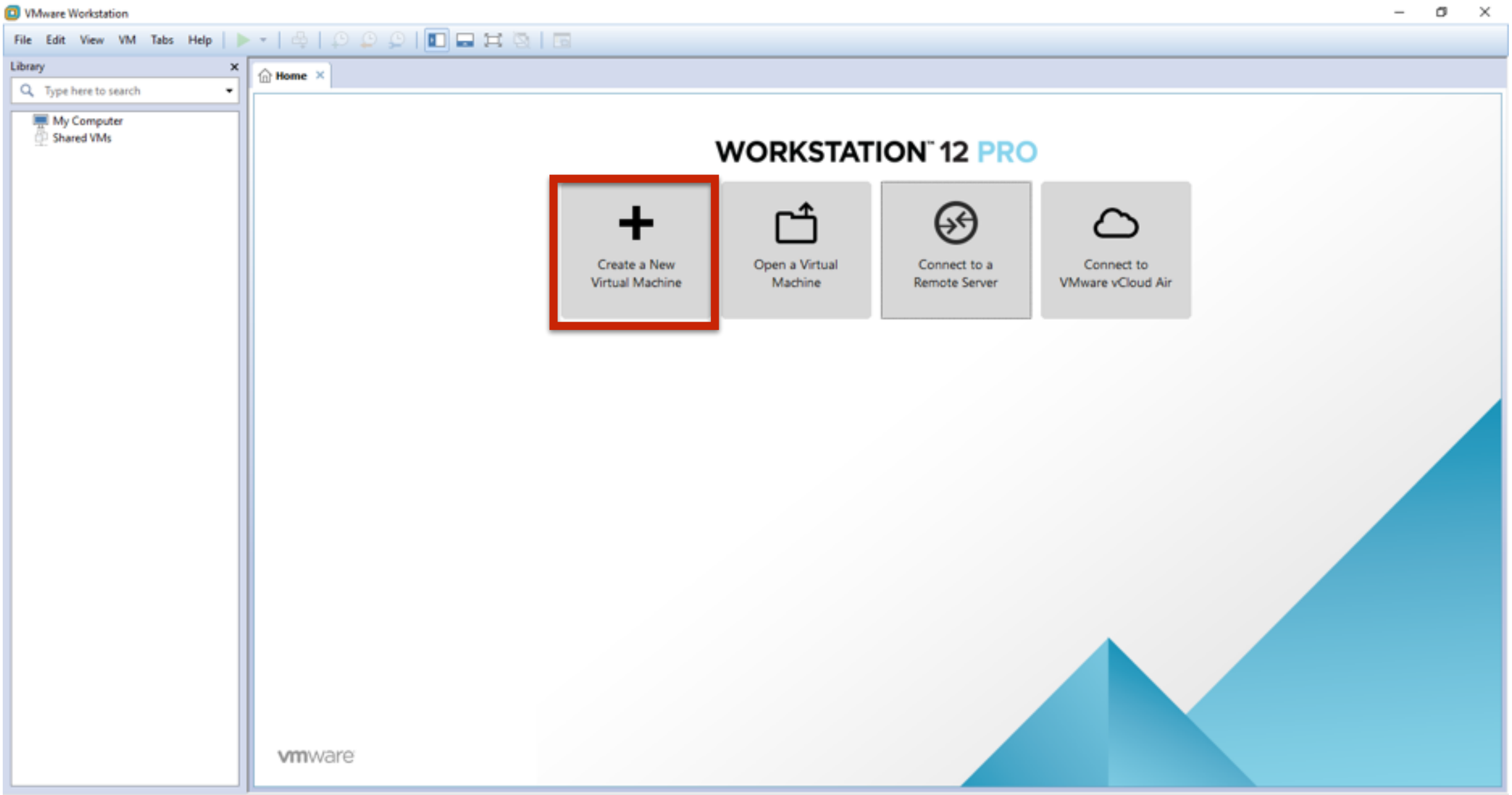
Cloud Hosted Router

	6.34.6 (Bugfix only)	6.36.2 (Current)	5.26 (Legacy)	6.37rc27 (Release candidate)
Images	vmdk, vhdx, vdi, img			
The Dude client	⬇	⬇	-	-
The Dude server	⬇	⬇	-	⬇
VMDK image	⬇	⬇	-	⬇
VHDX image	⬇	⬇	-	⬇
VDI image	⬇	⬇	-	⬇
Raw disk image	⬇	⬇	-	⬇
Extra packages	⬇	⬇	-	⬇
Changelog	📄	📄	-	📄
MD5	Σ	Σ	-	Σ

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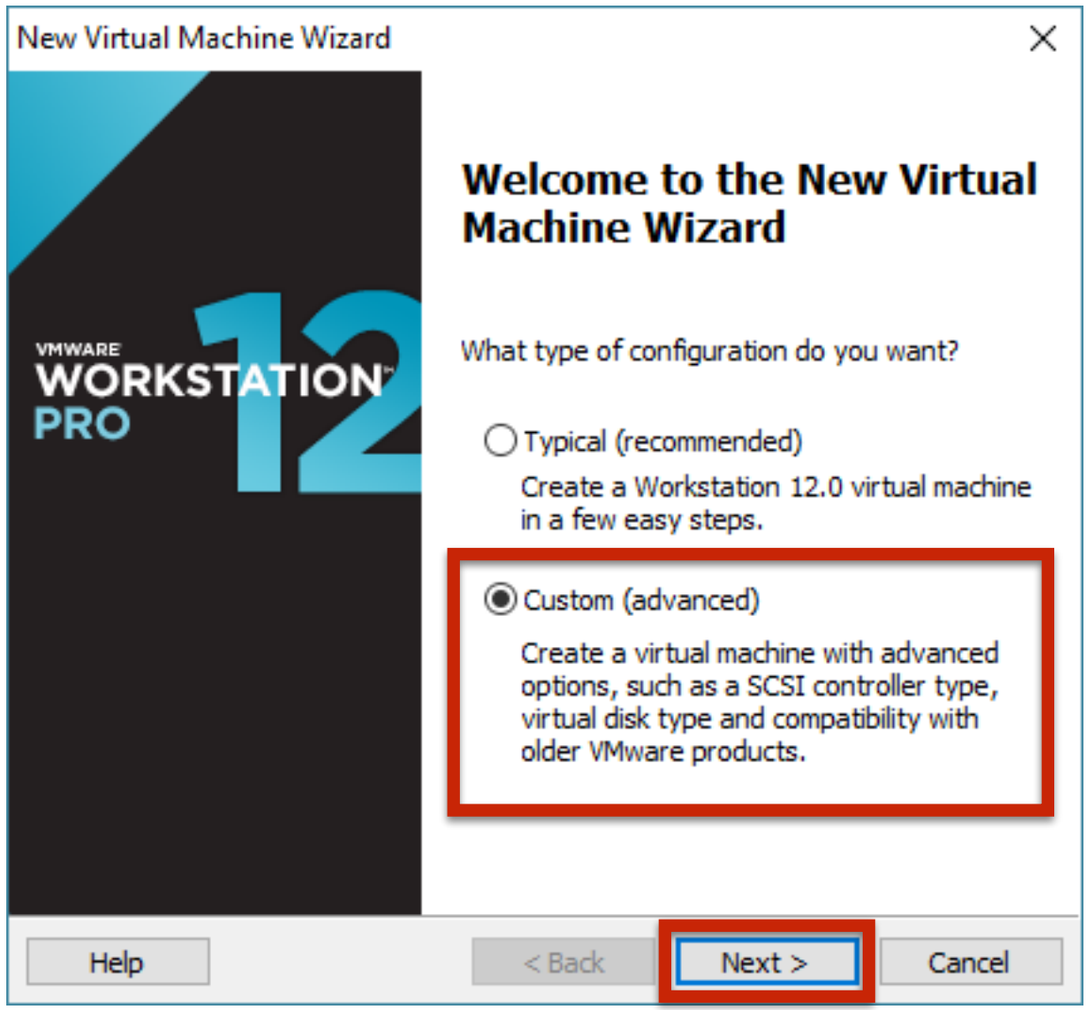
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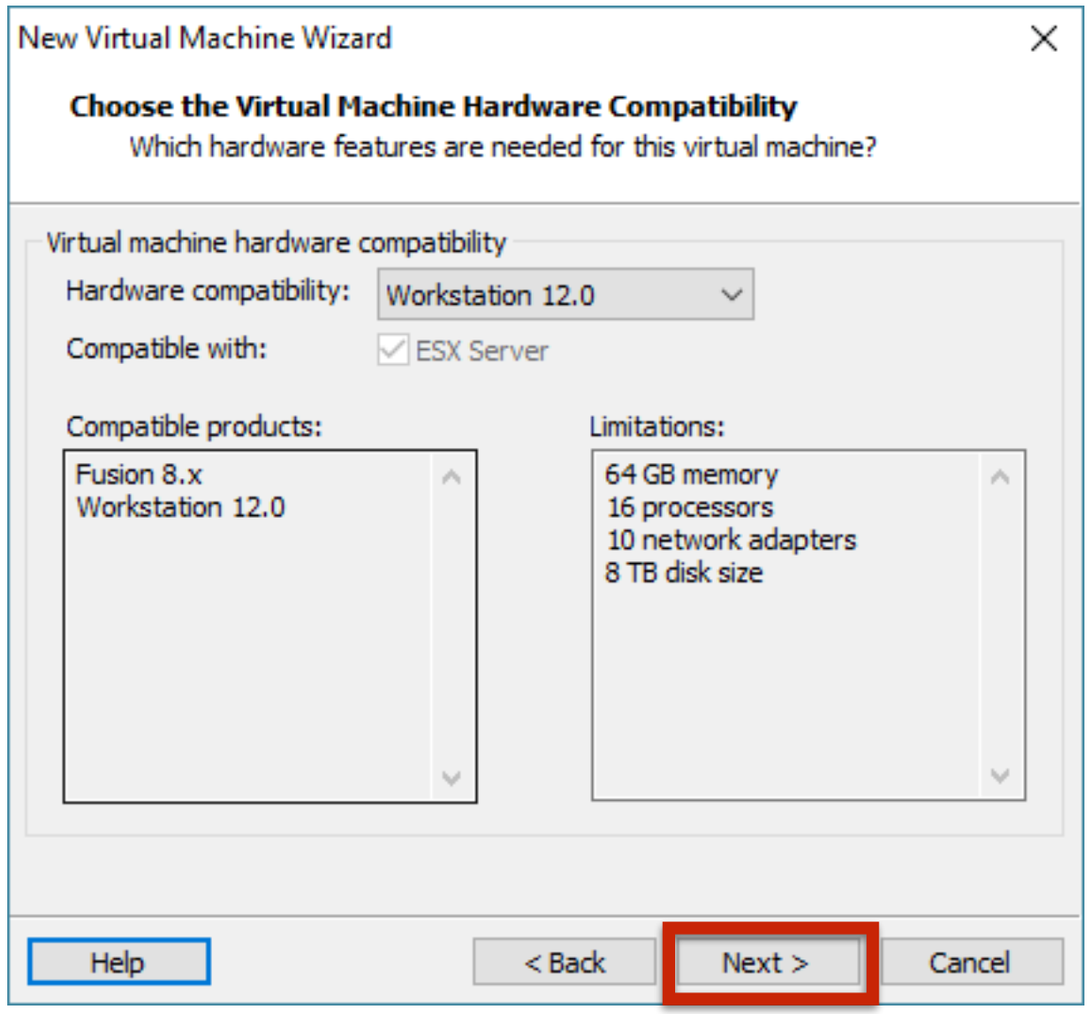
Create with VMWare Workstation 12



How to install

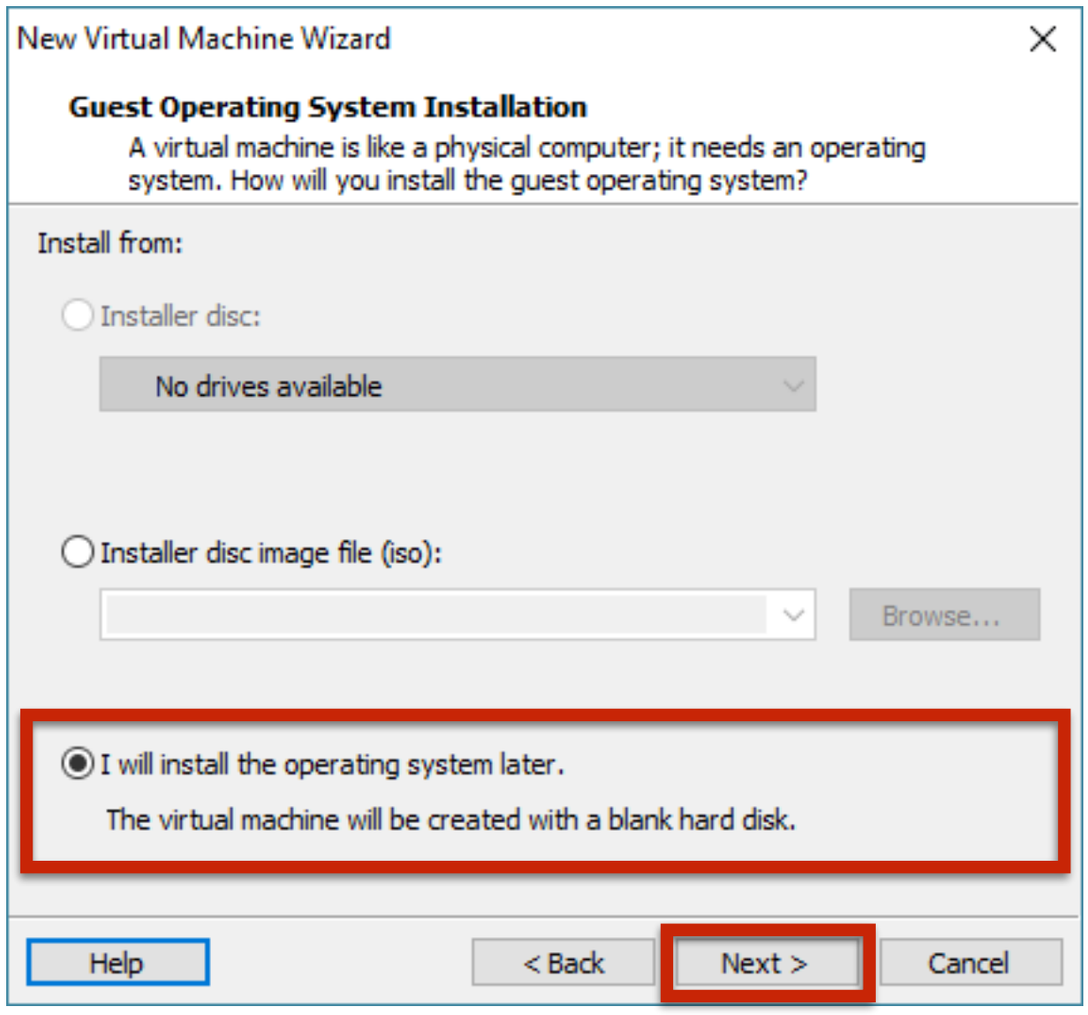
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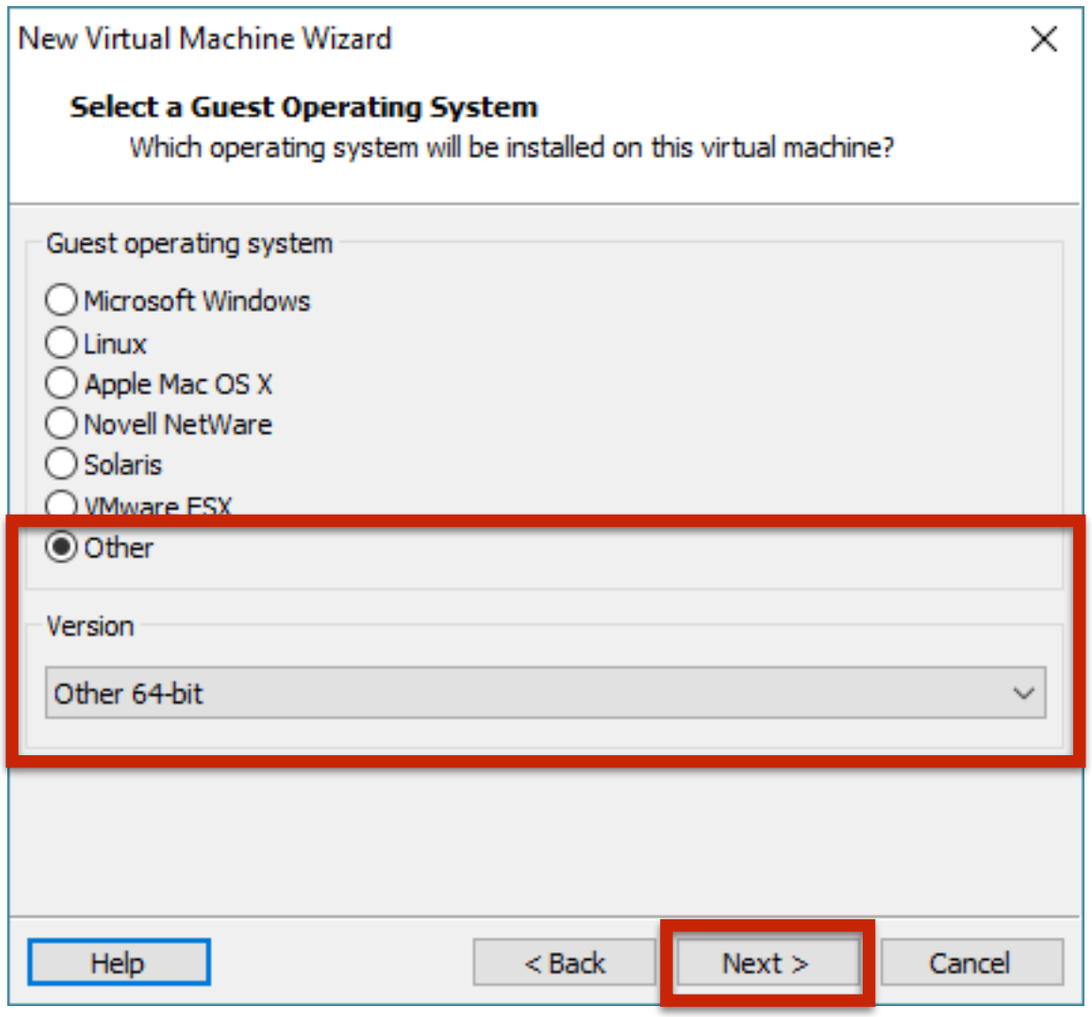




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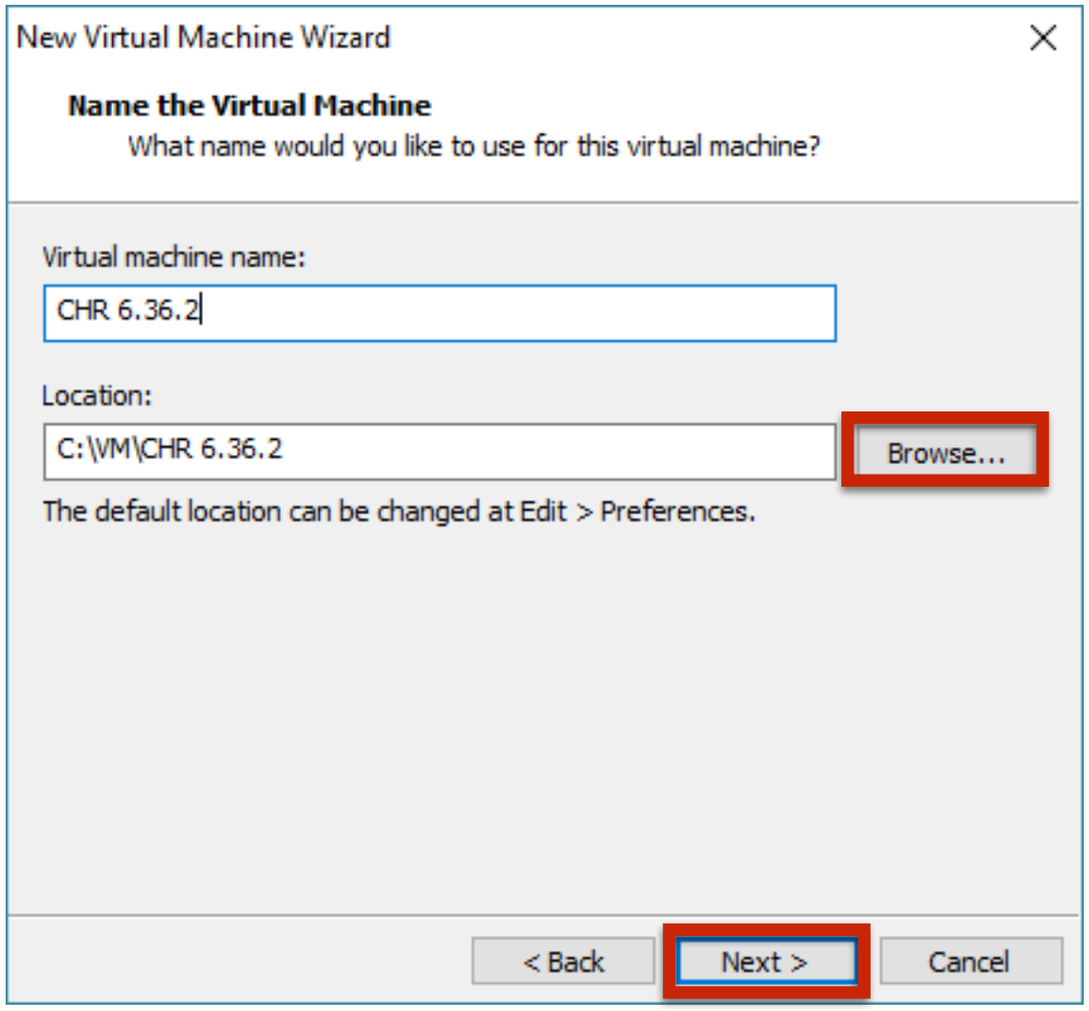
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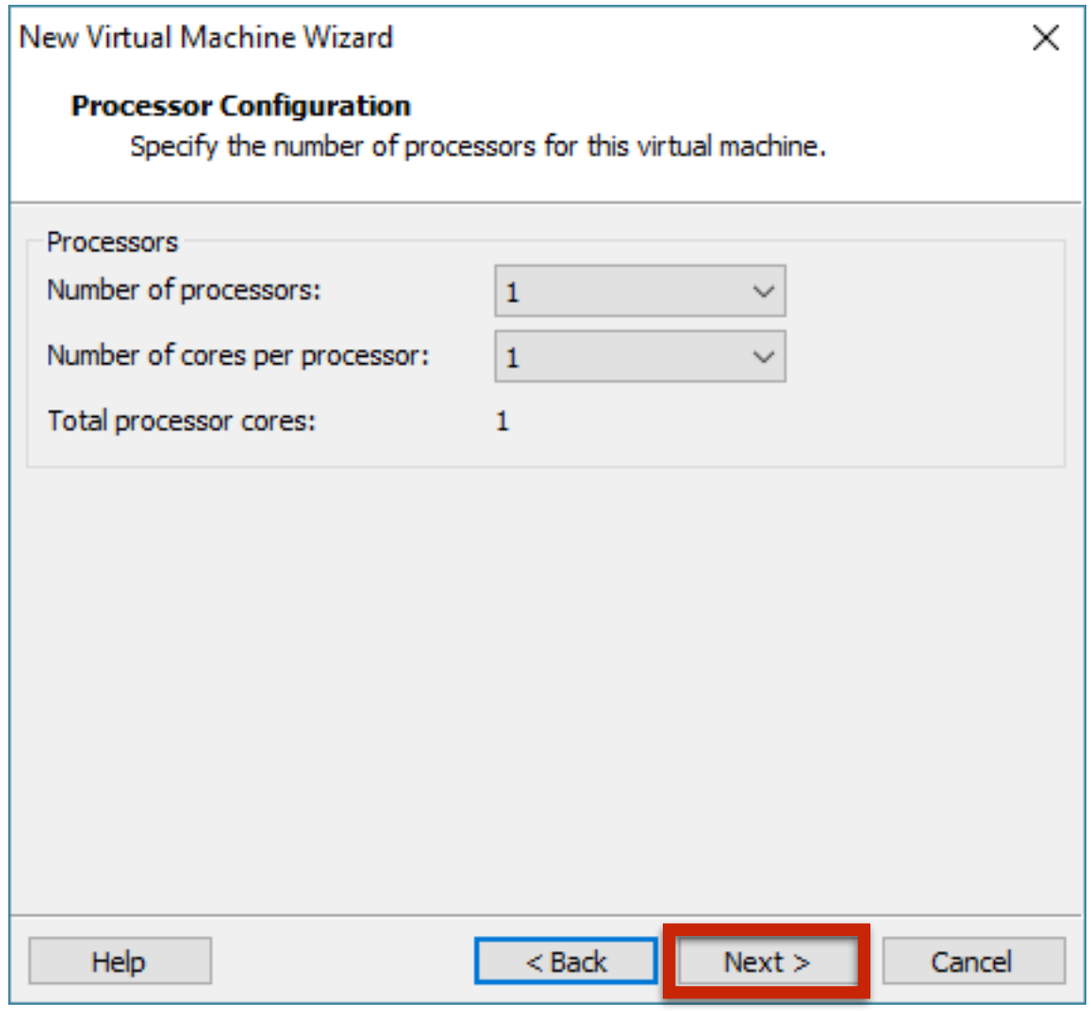




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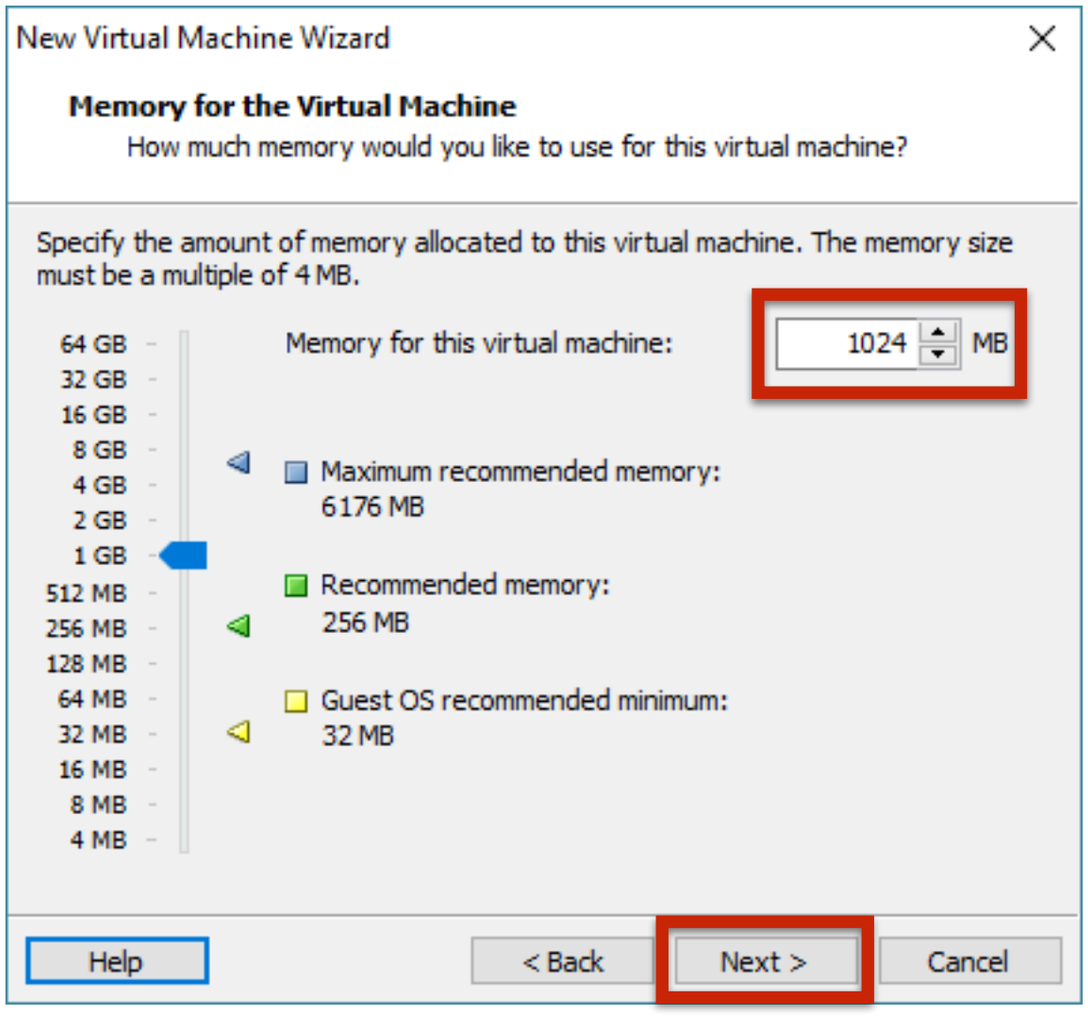
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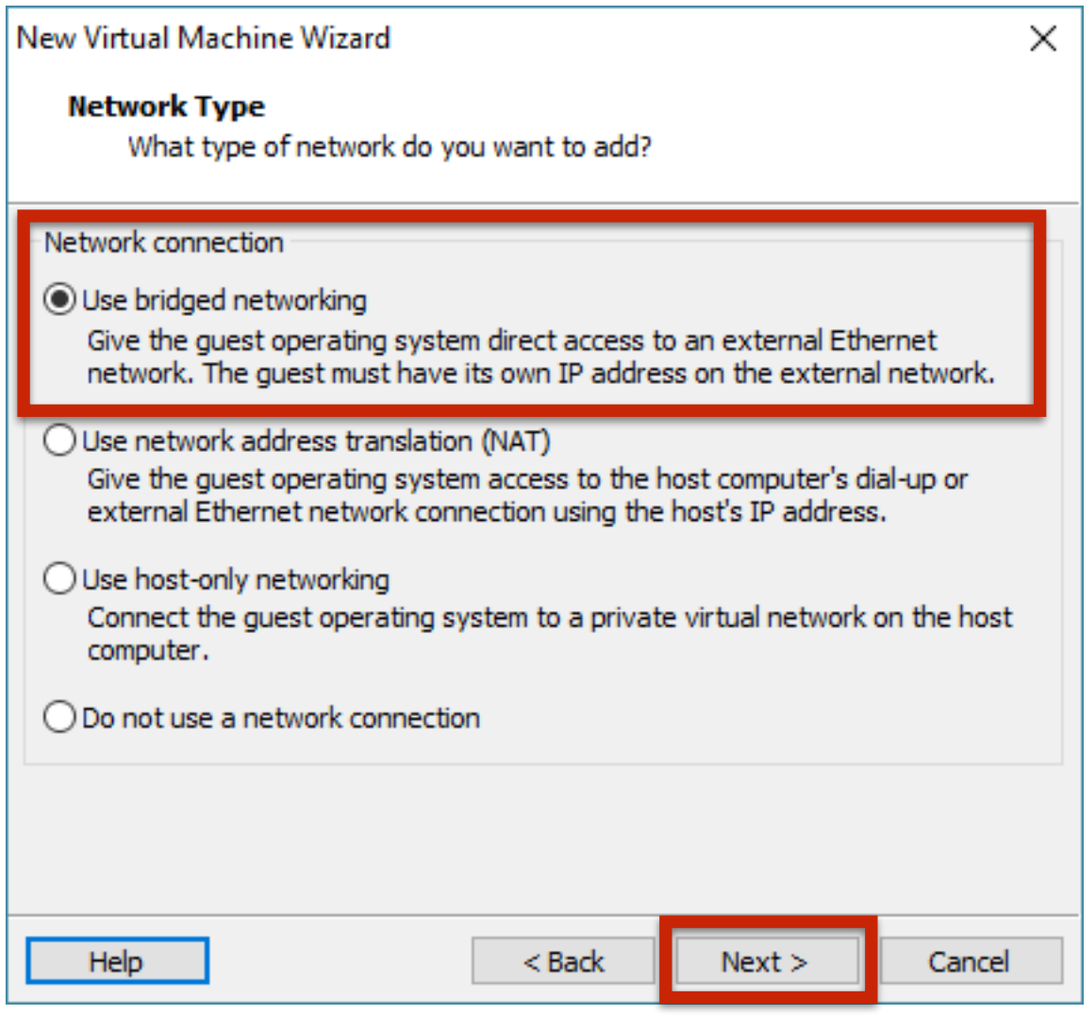




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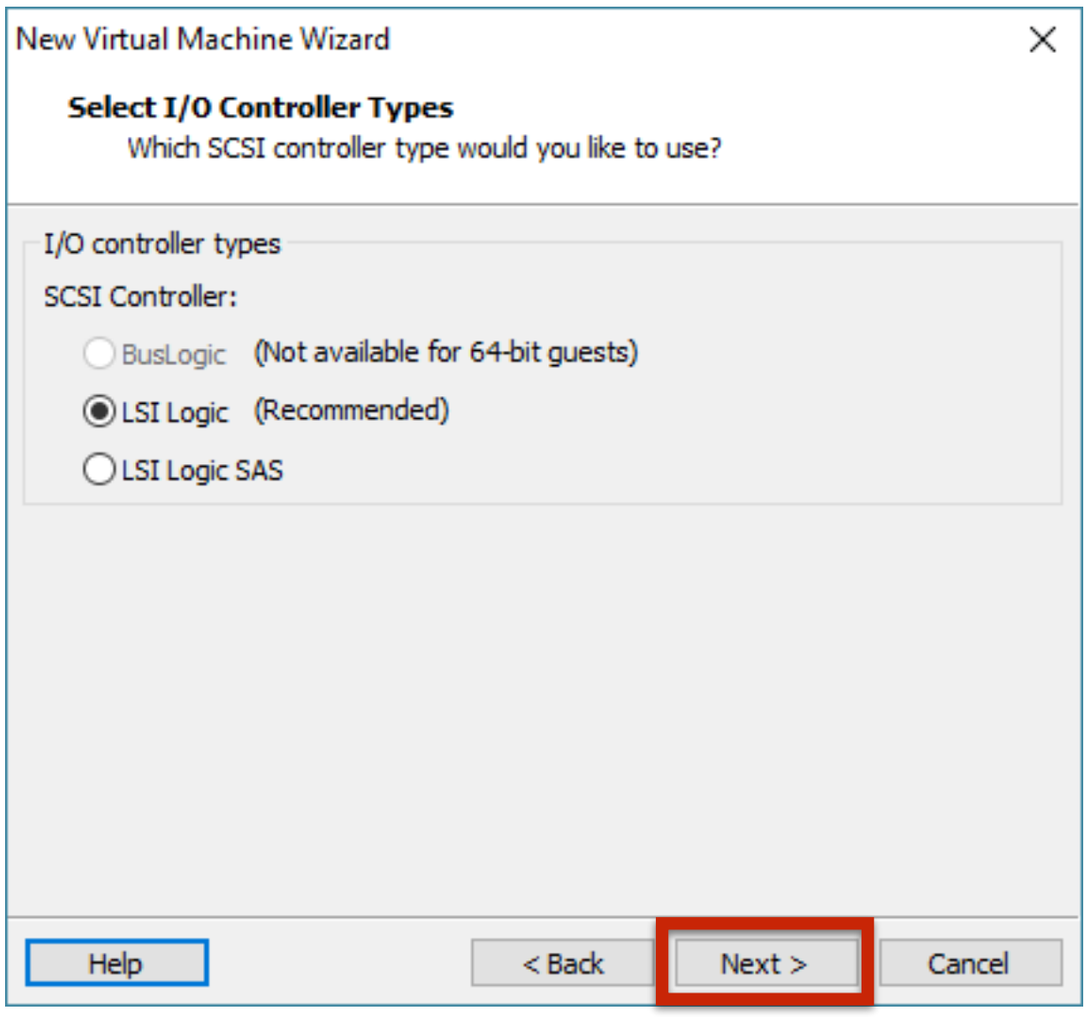
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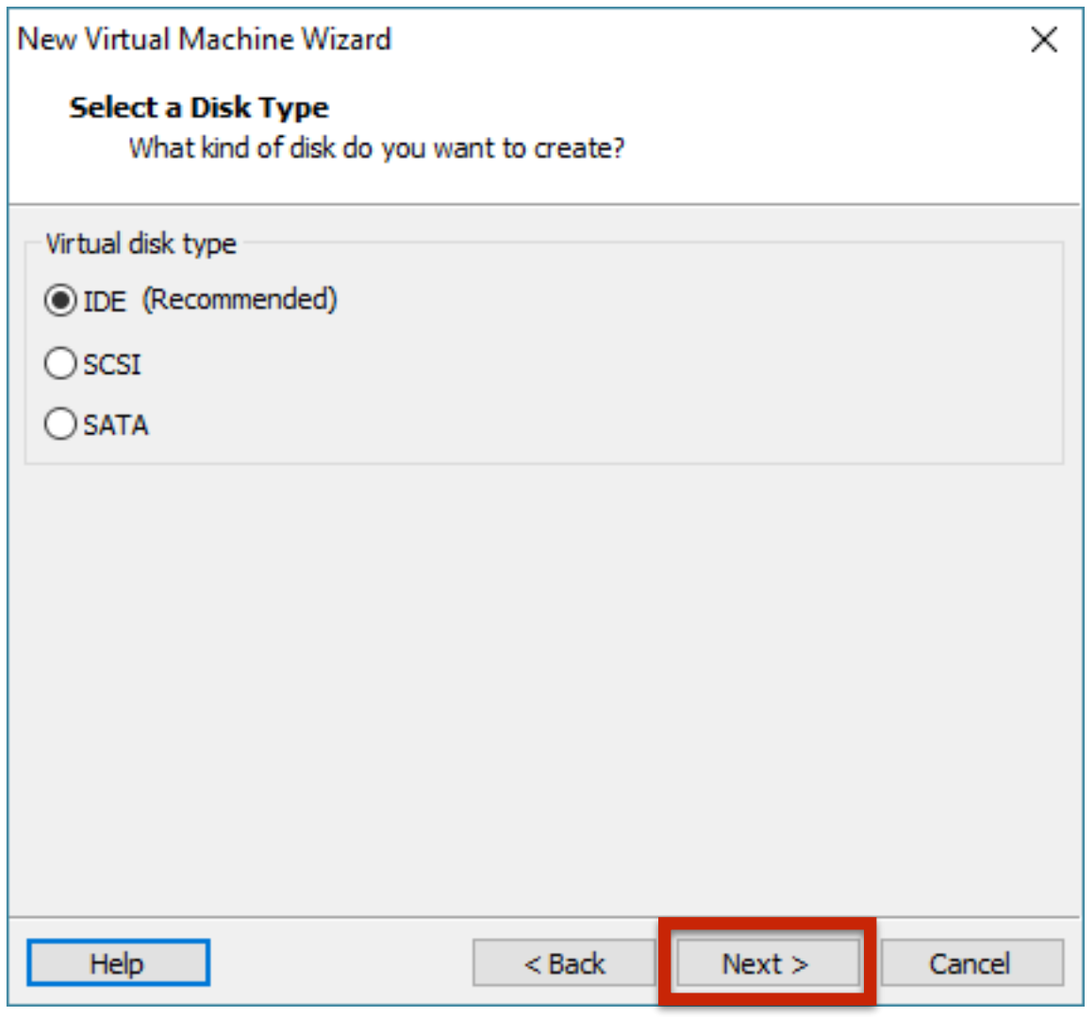




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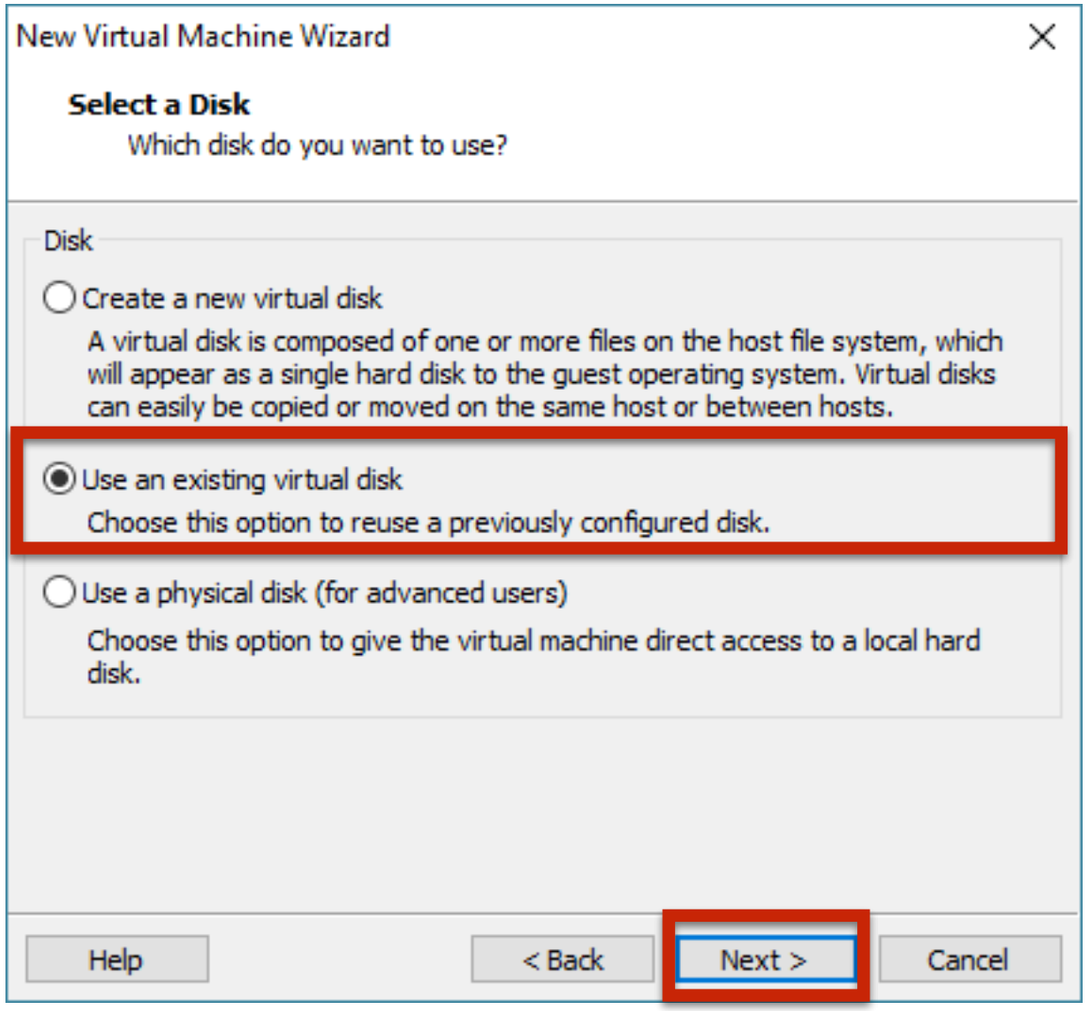
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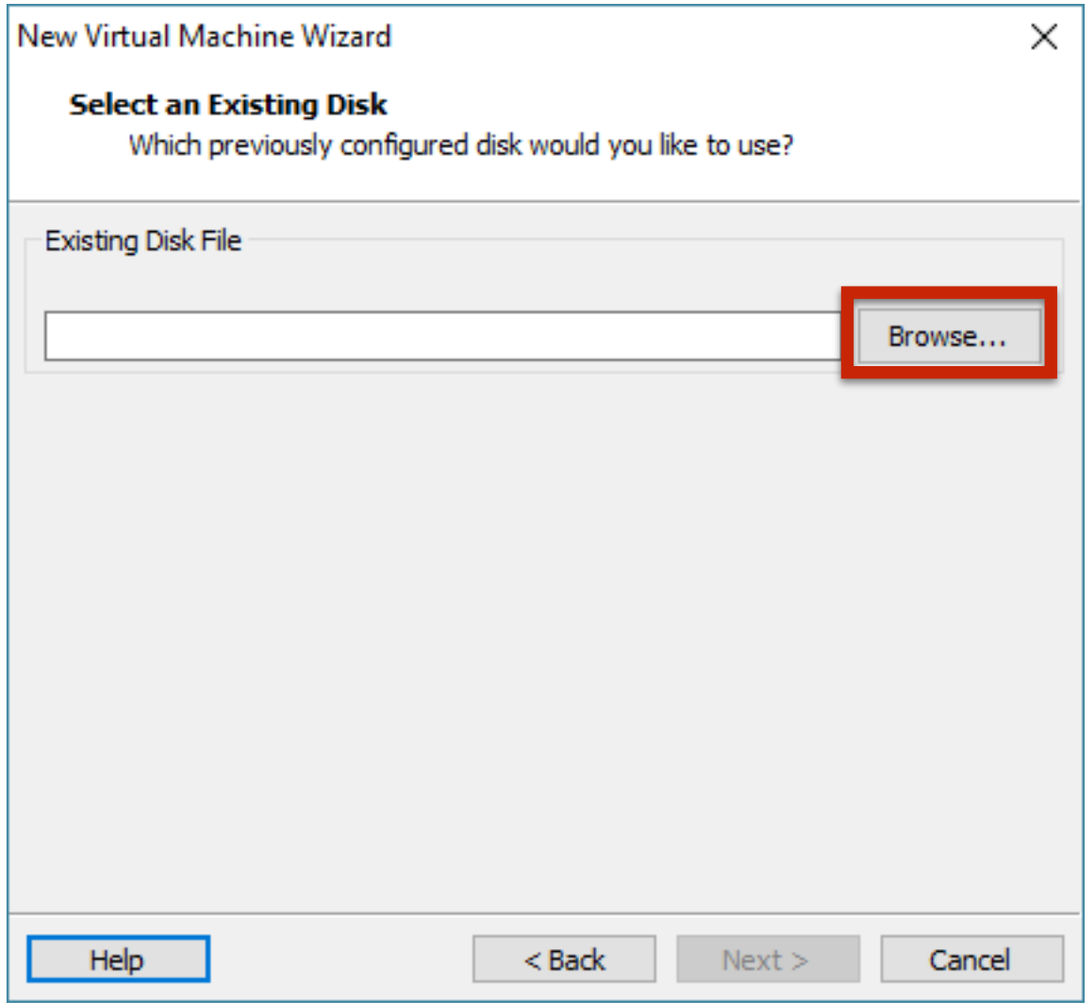




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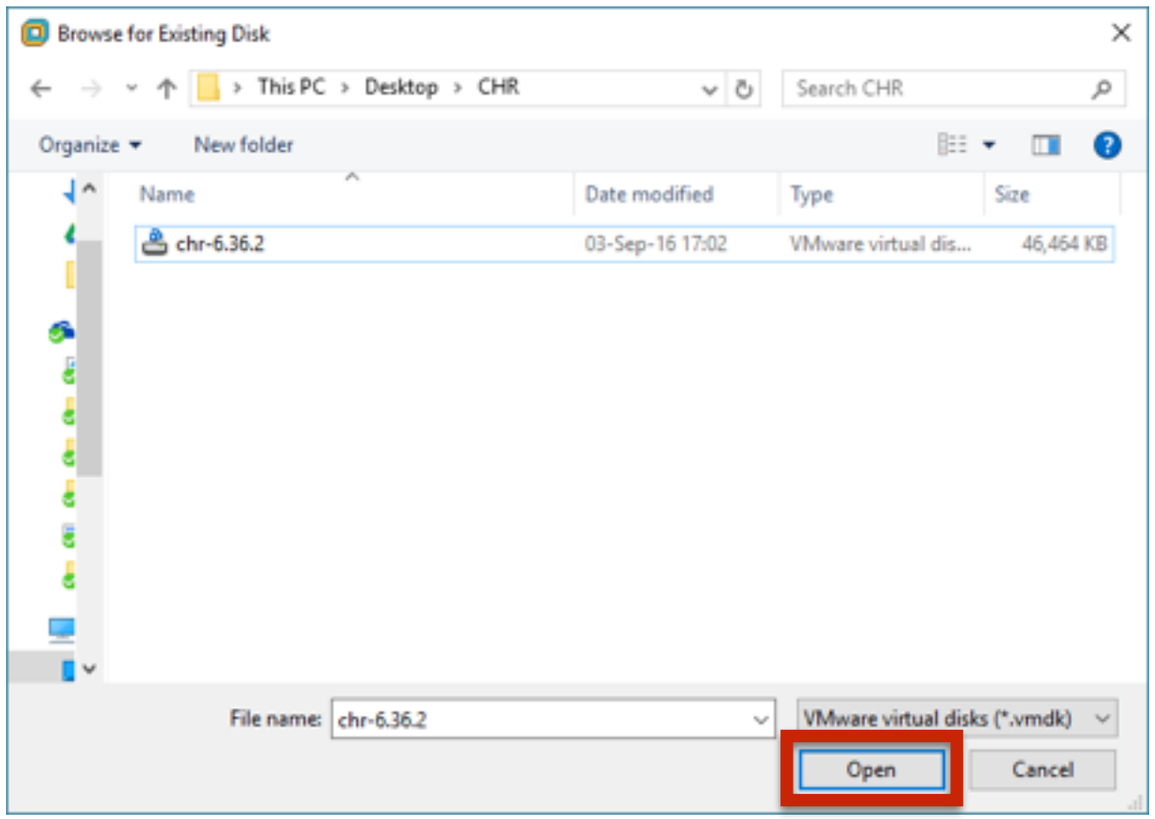
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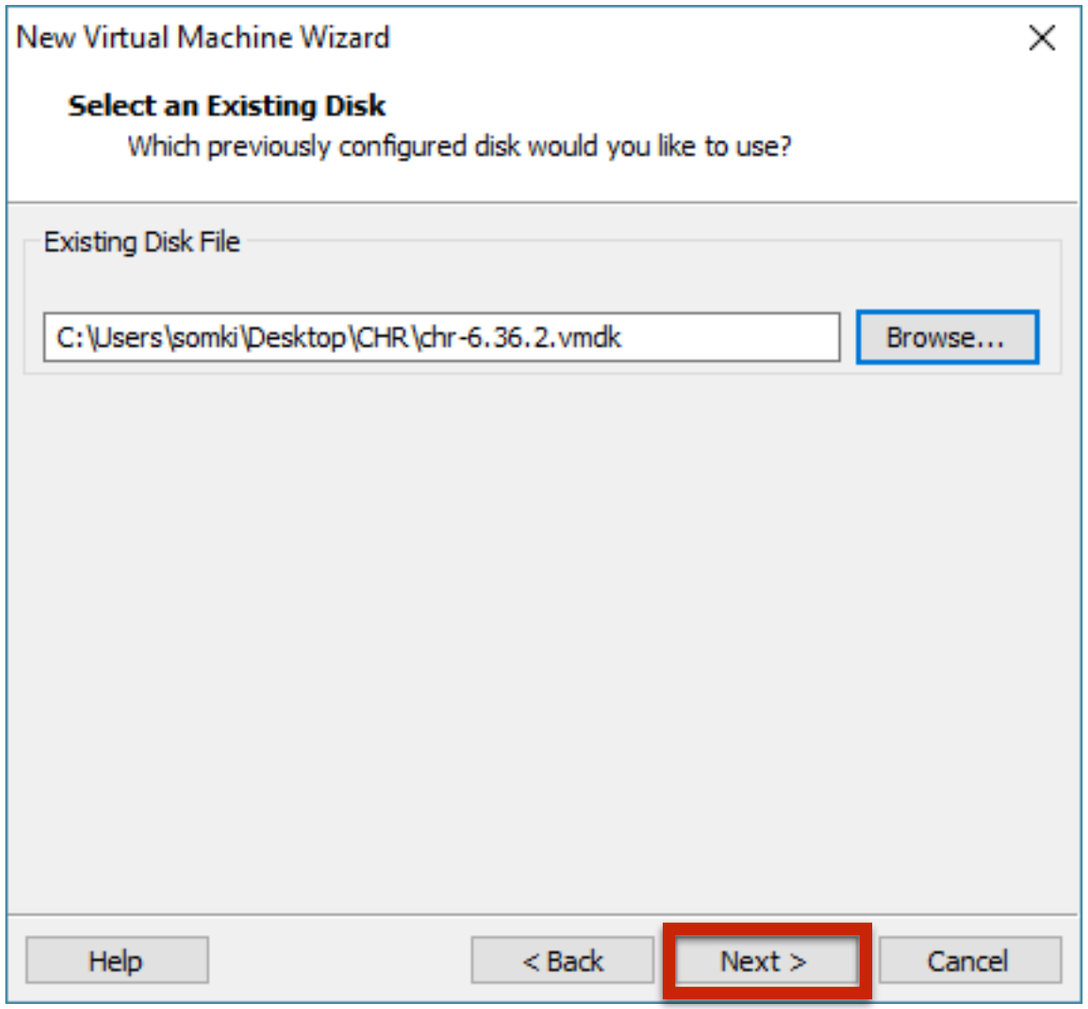




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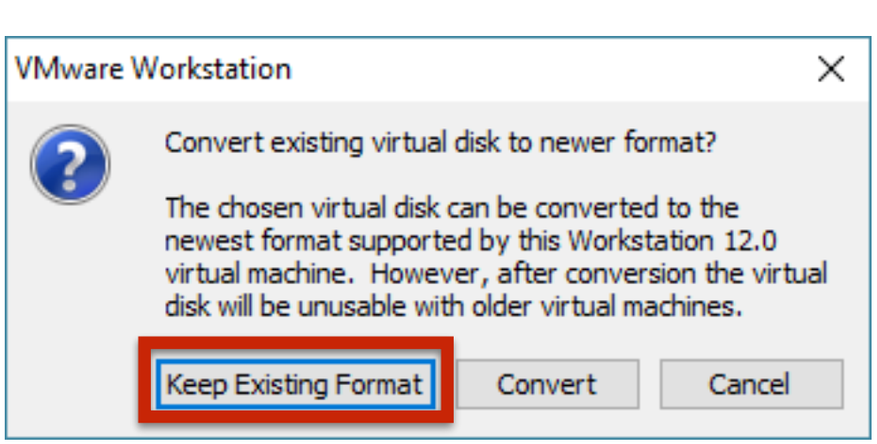
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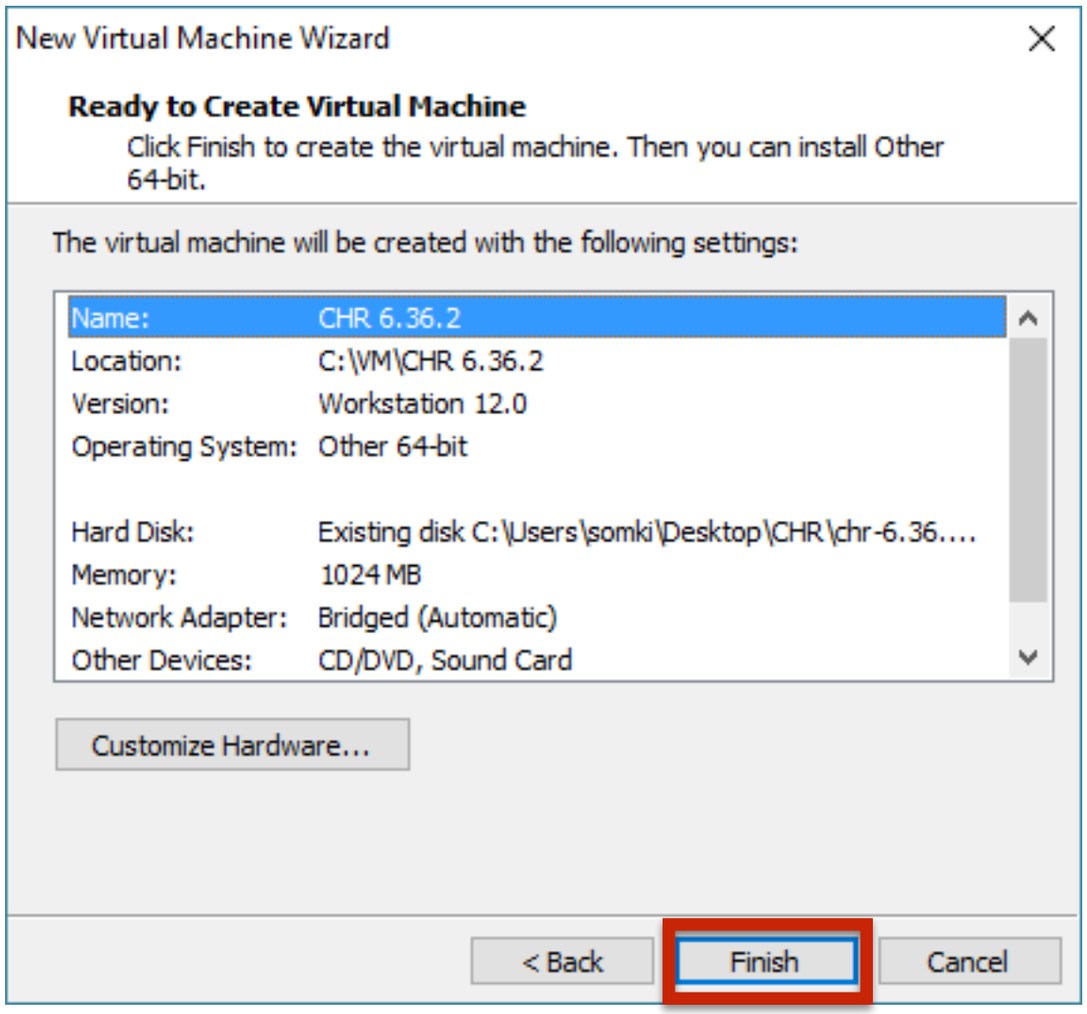




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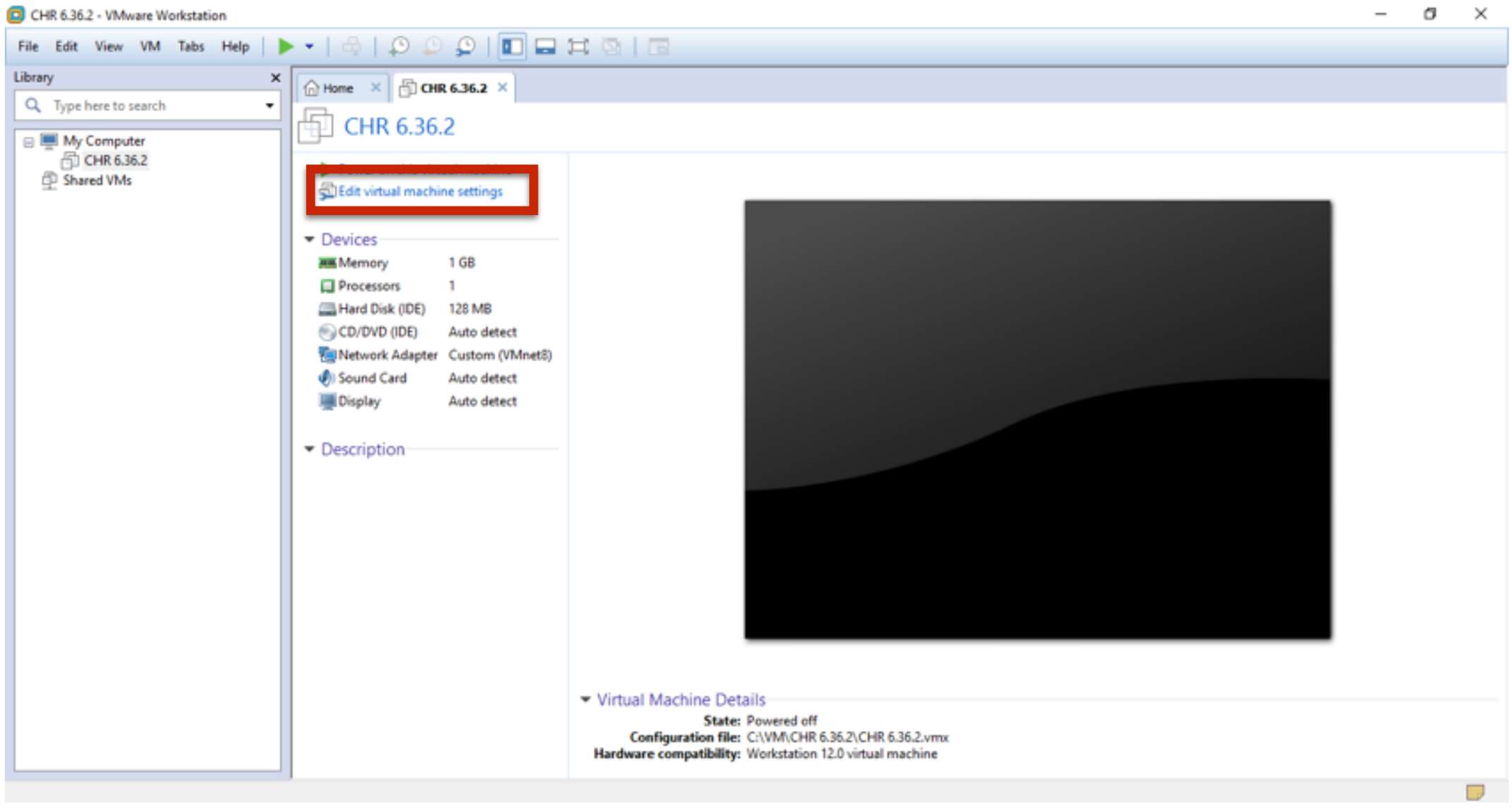
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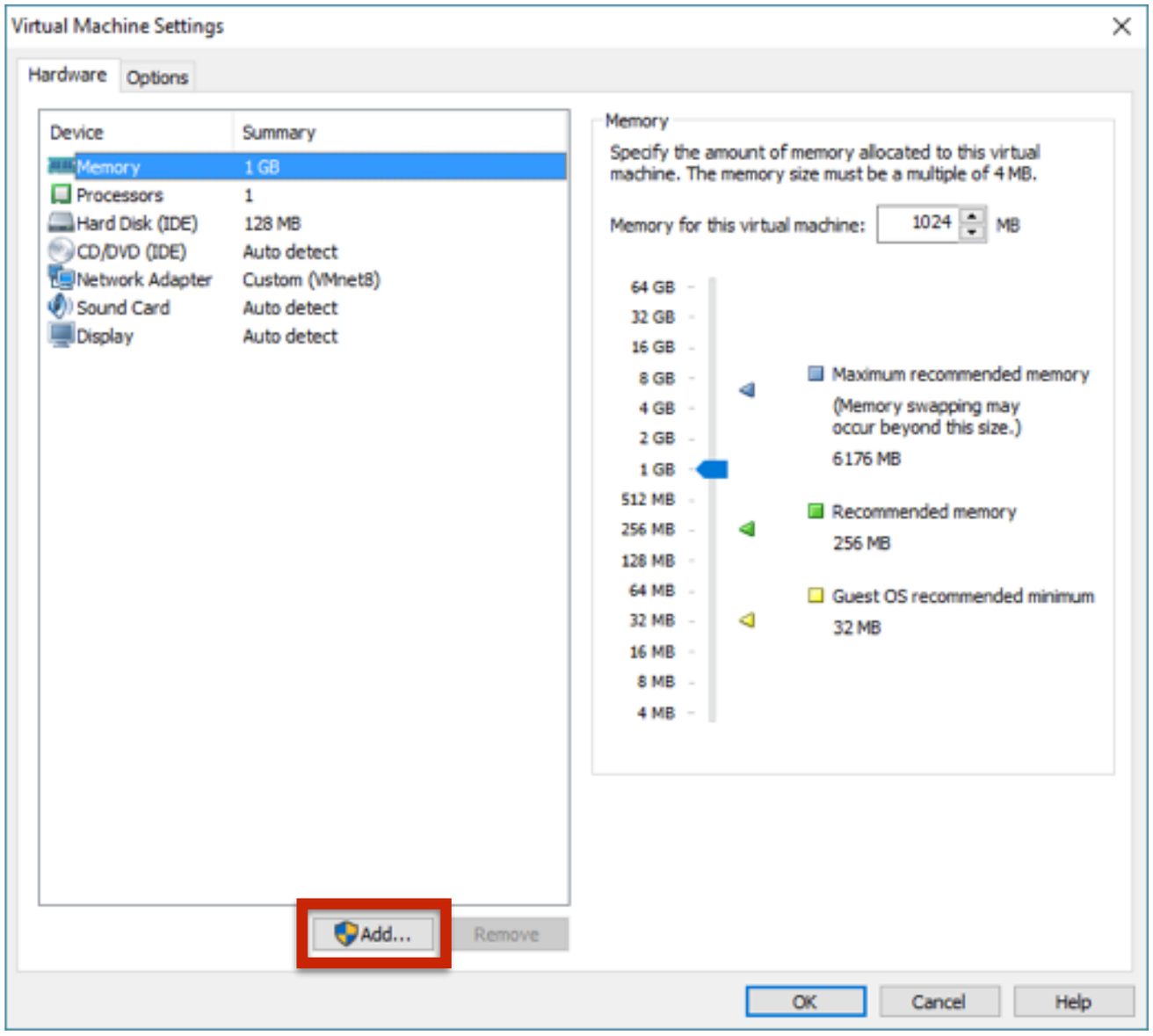
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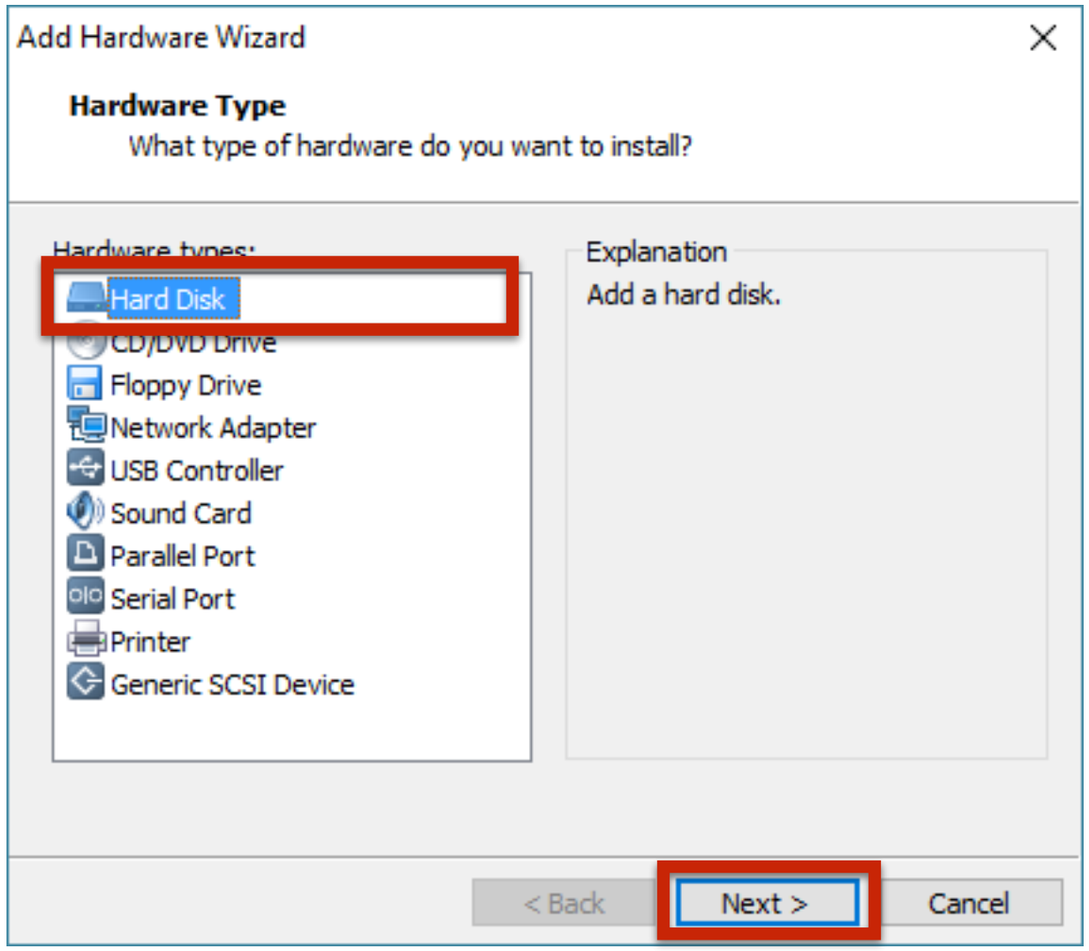
Attach new storage



How to install

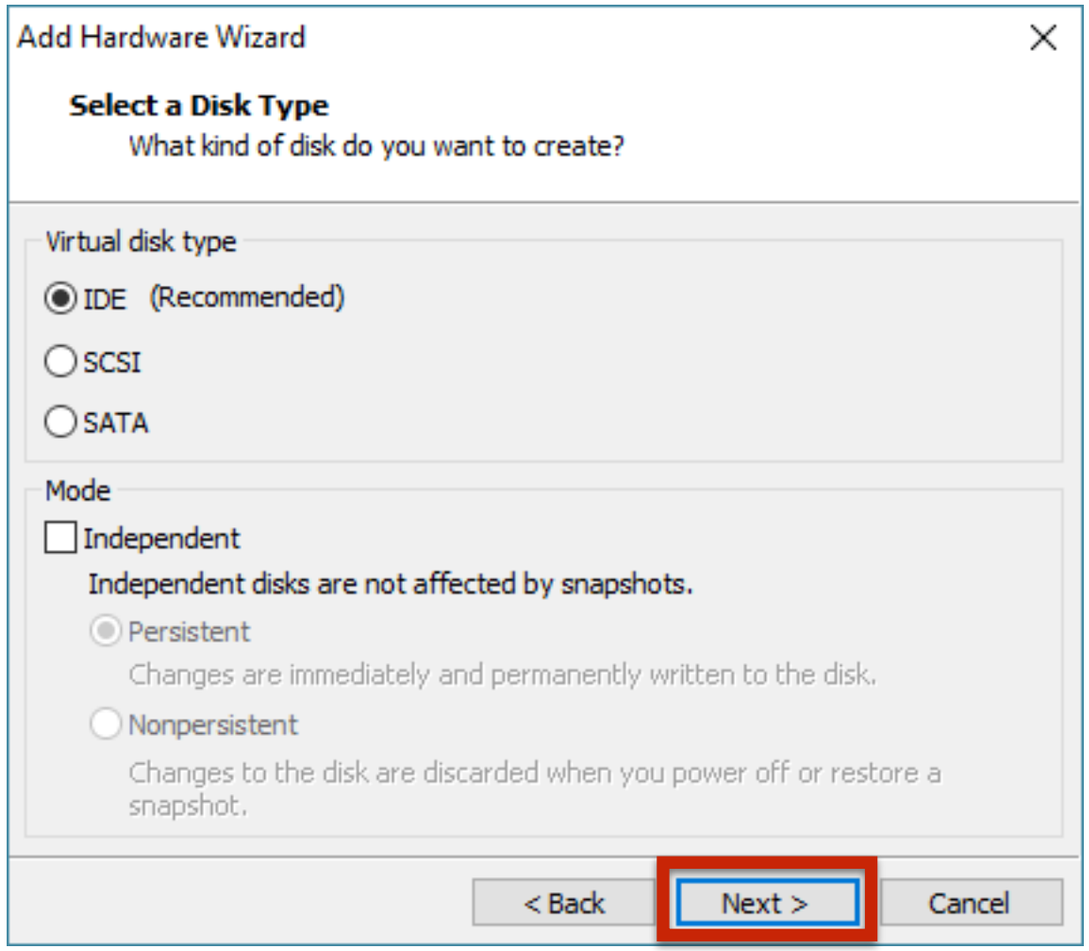
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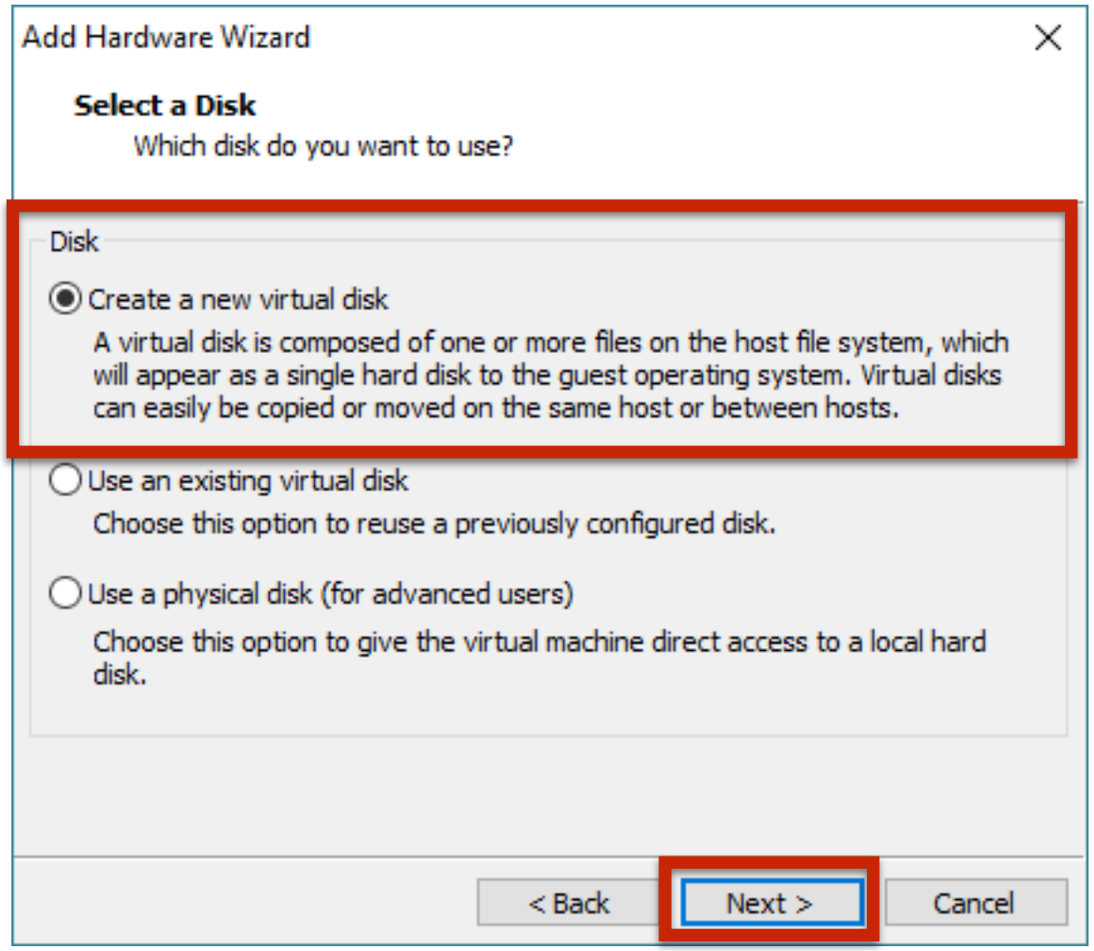




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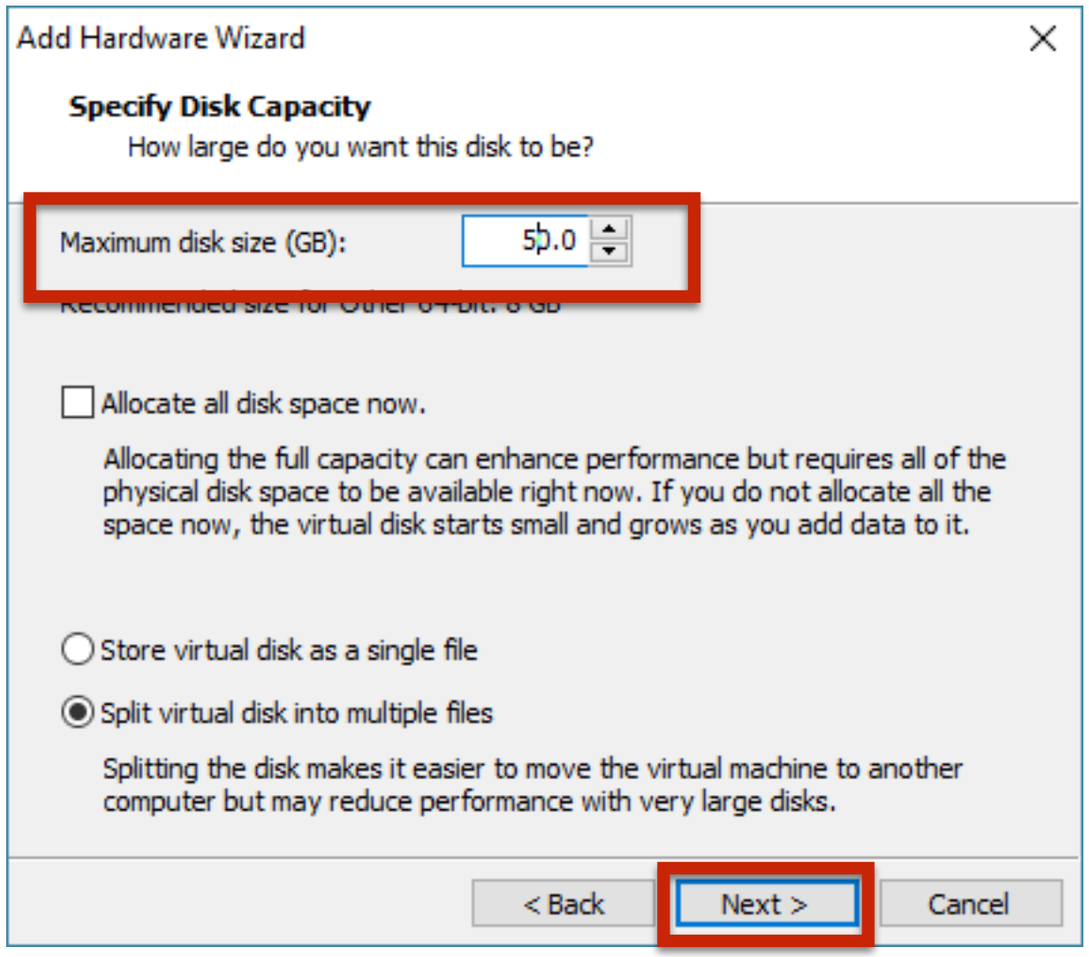
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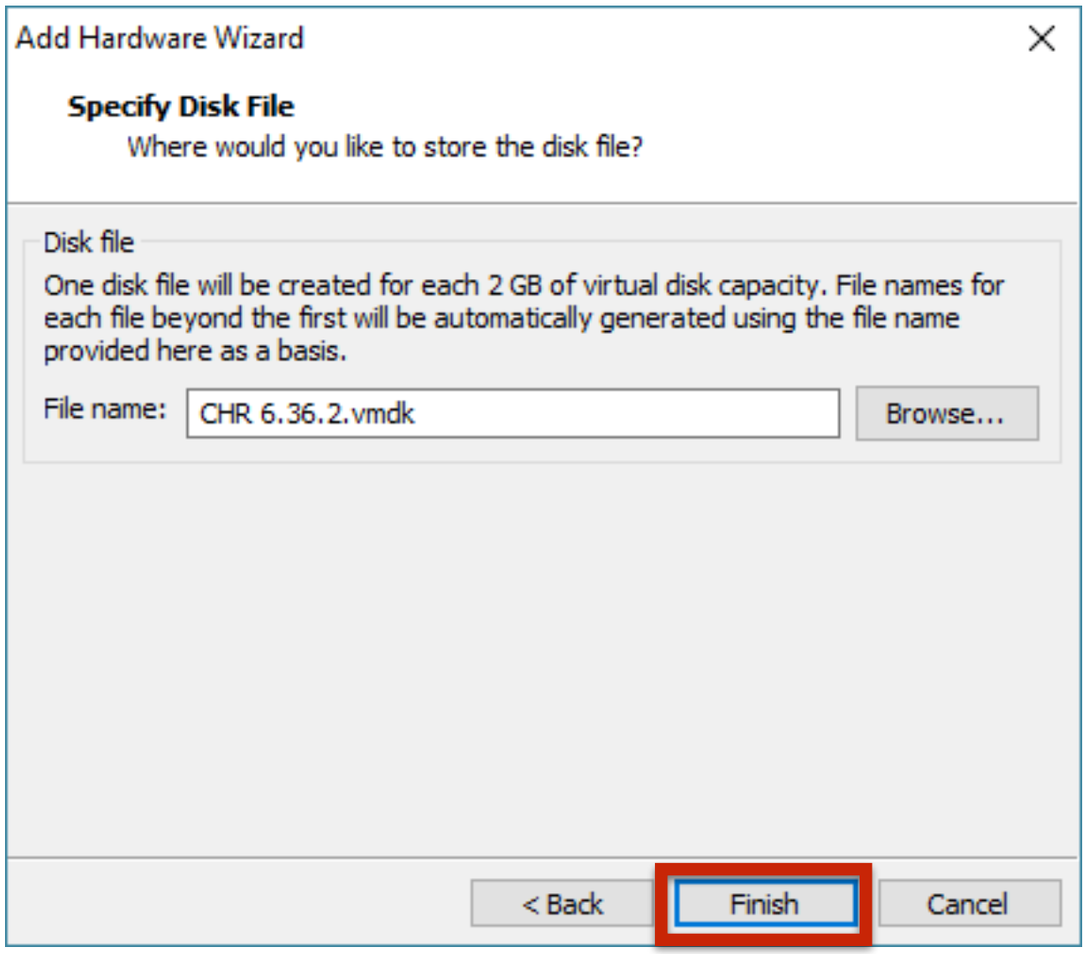




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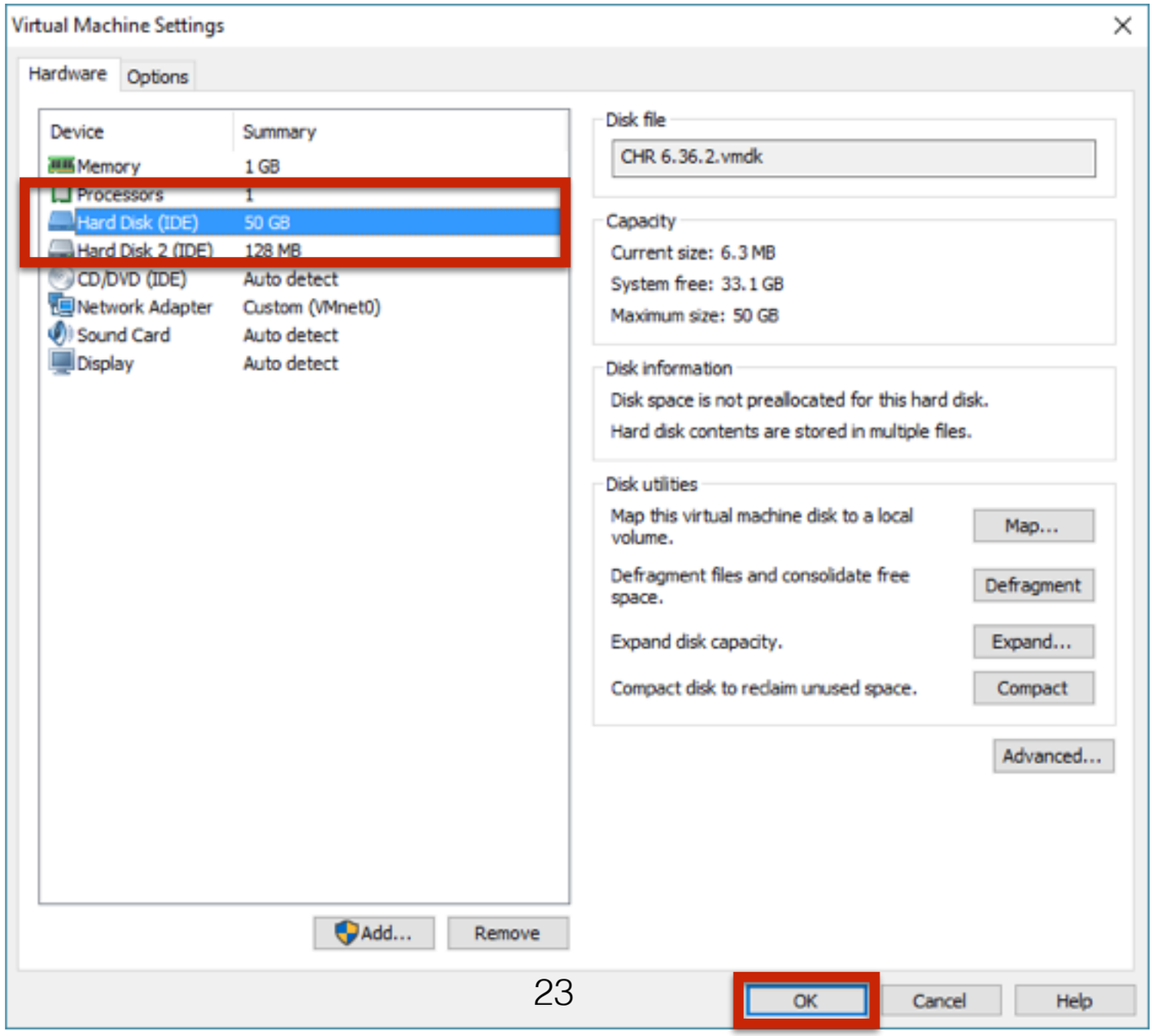
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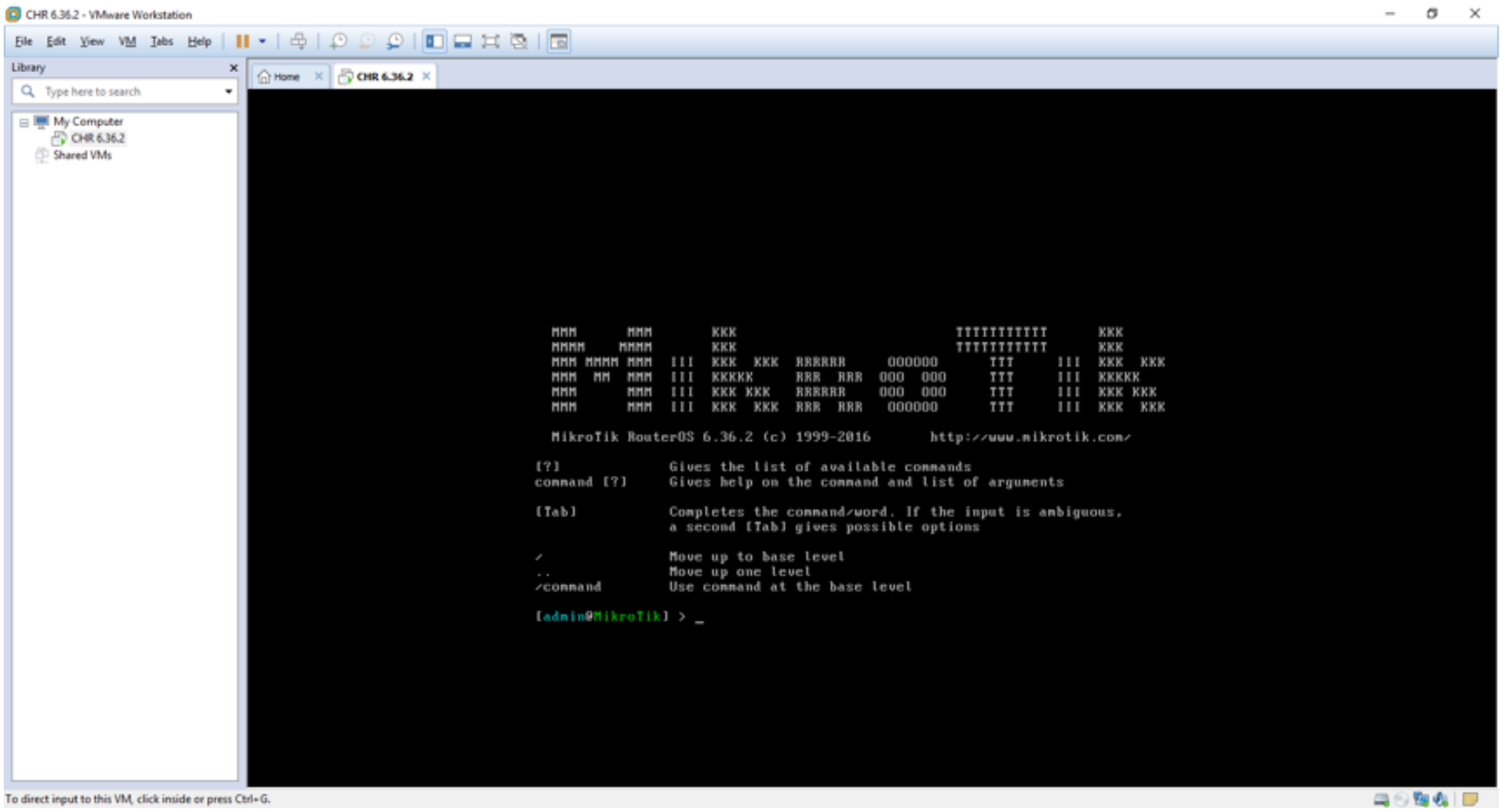
How to install

Attach new storage



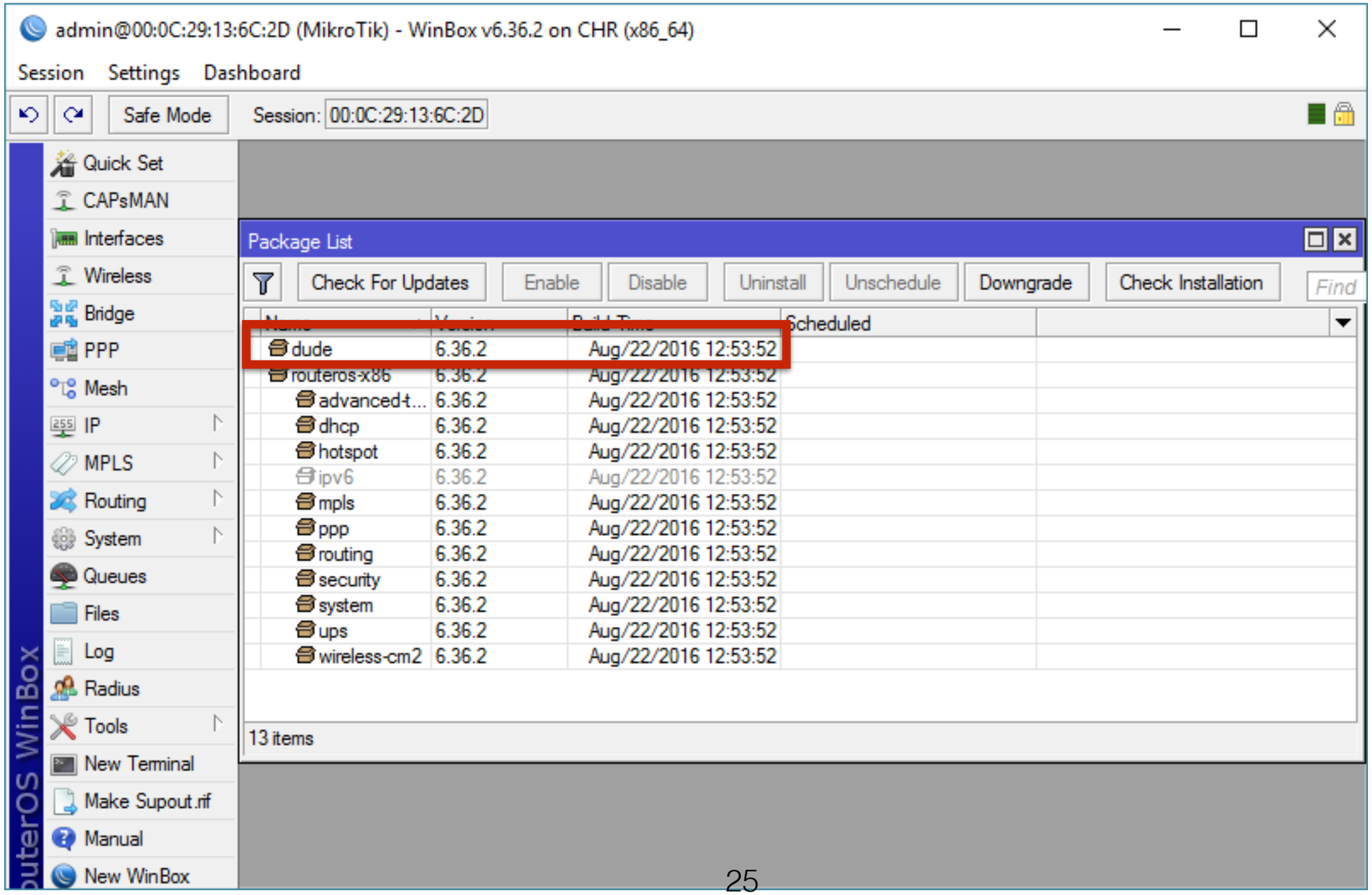
How to install

Power on CHR



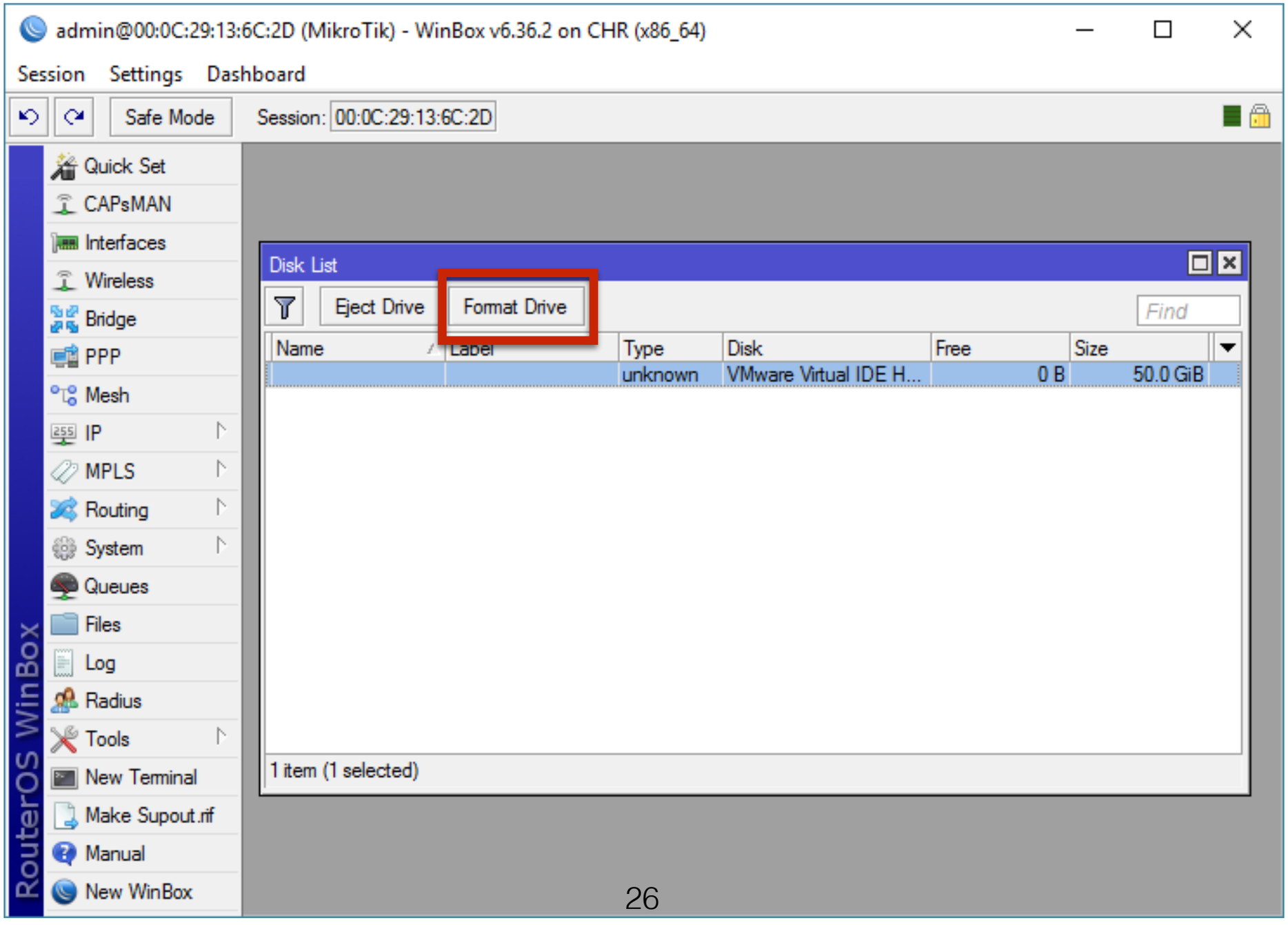
How to install

First time access



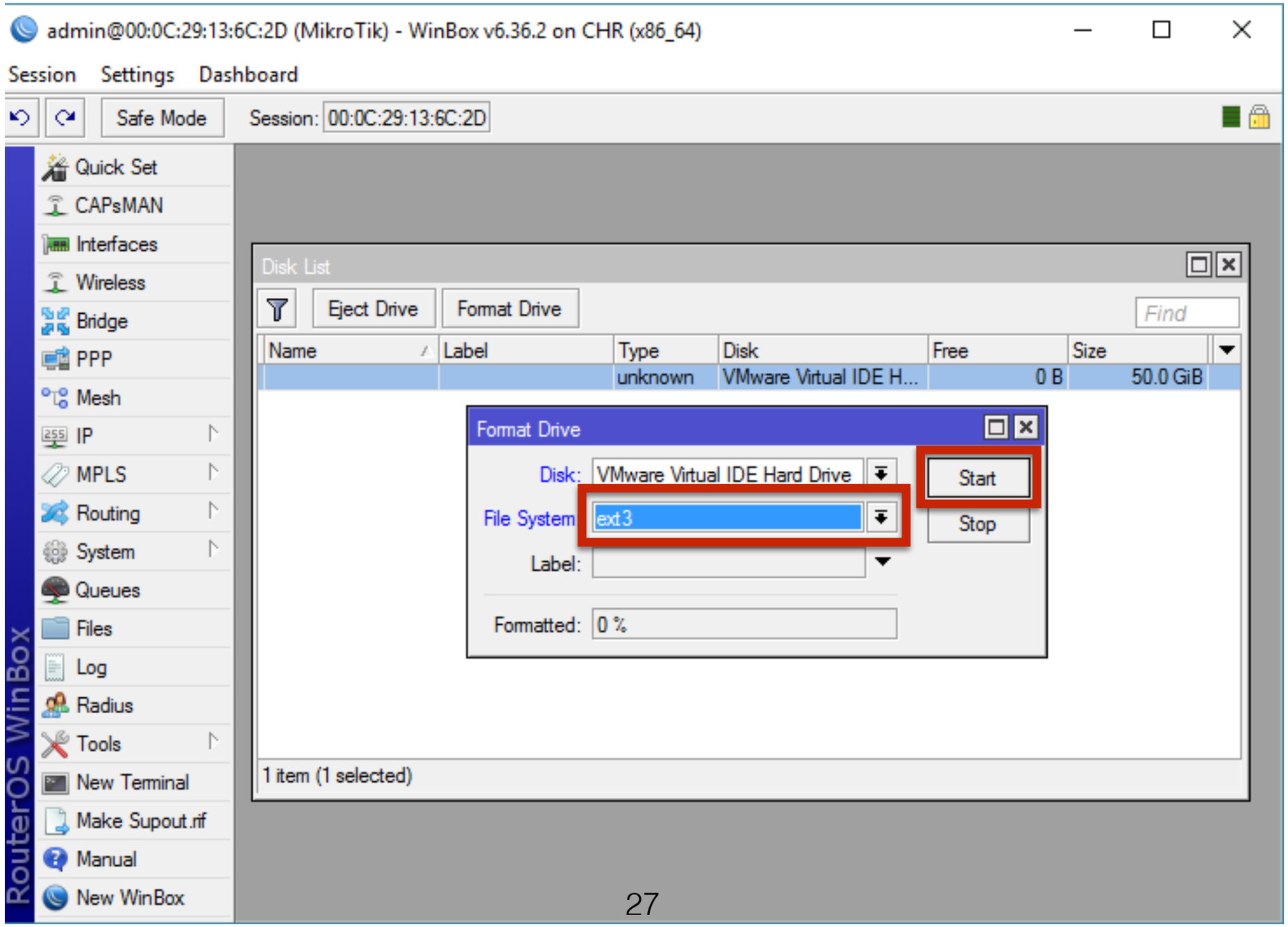
How to install

Format drive system -> disk



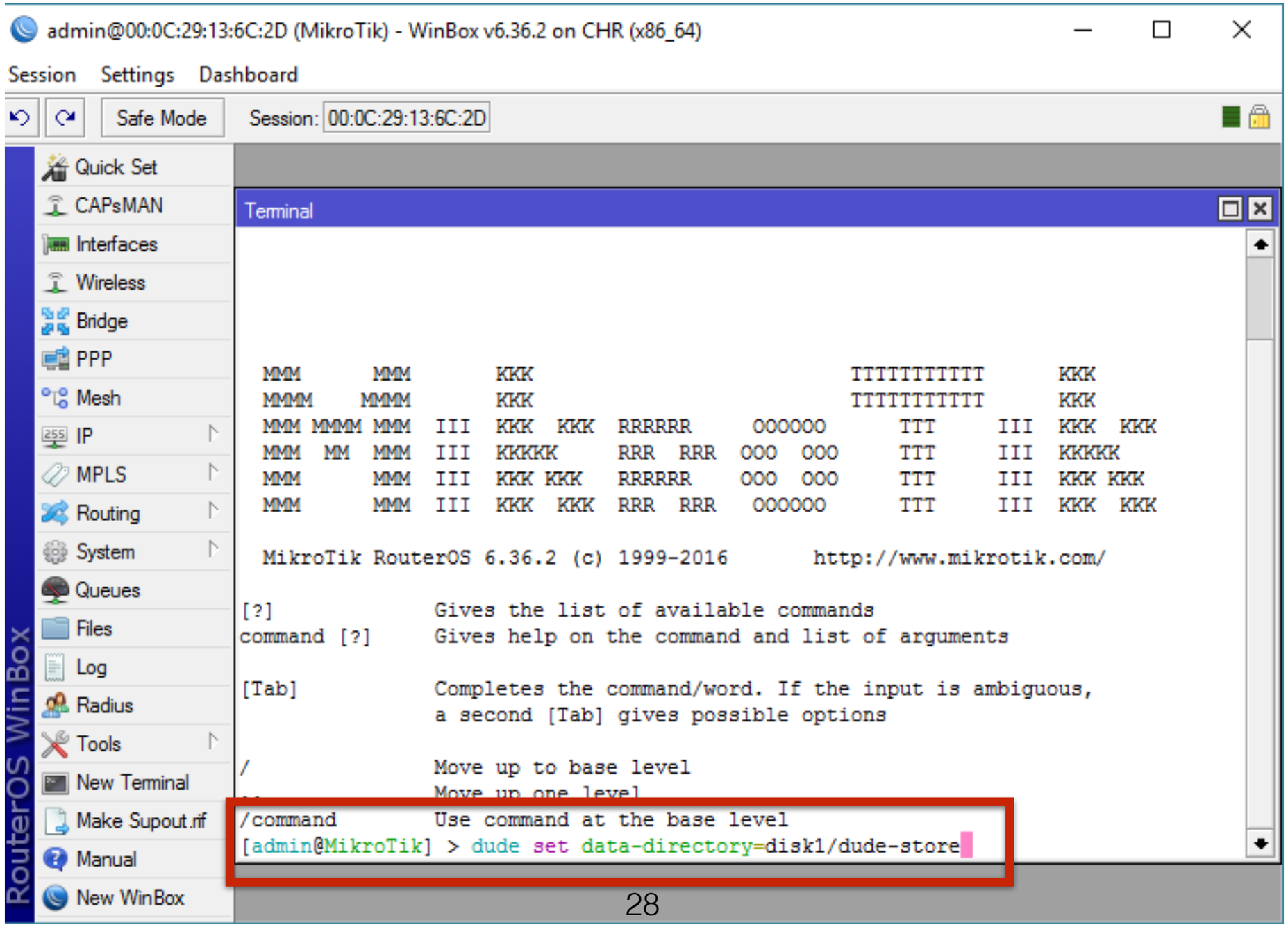
How to install

Format drive system -> disk



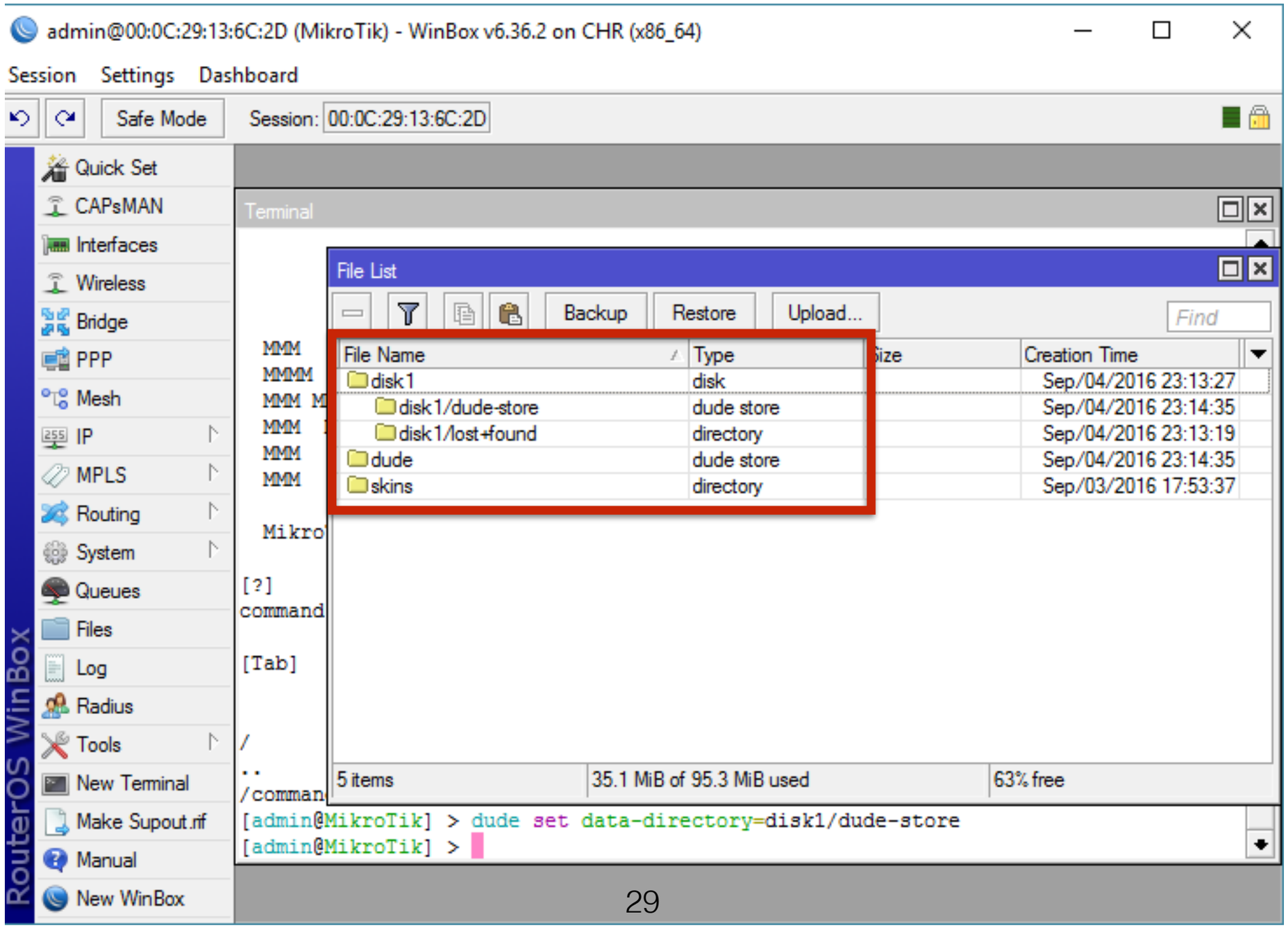
How to install

Change directory



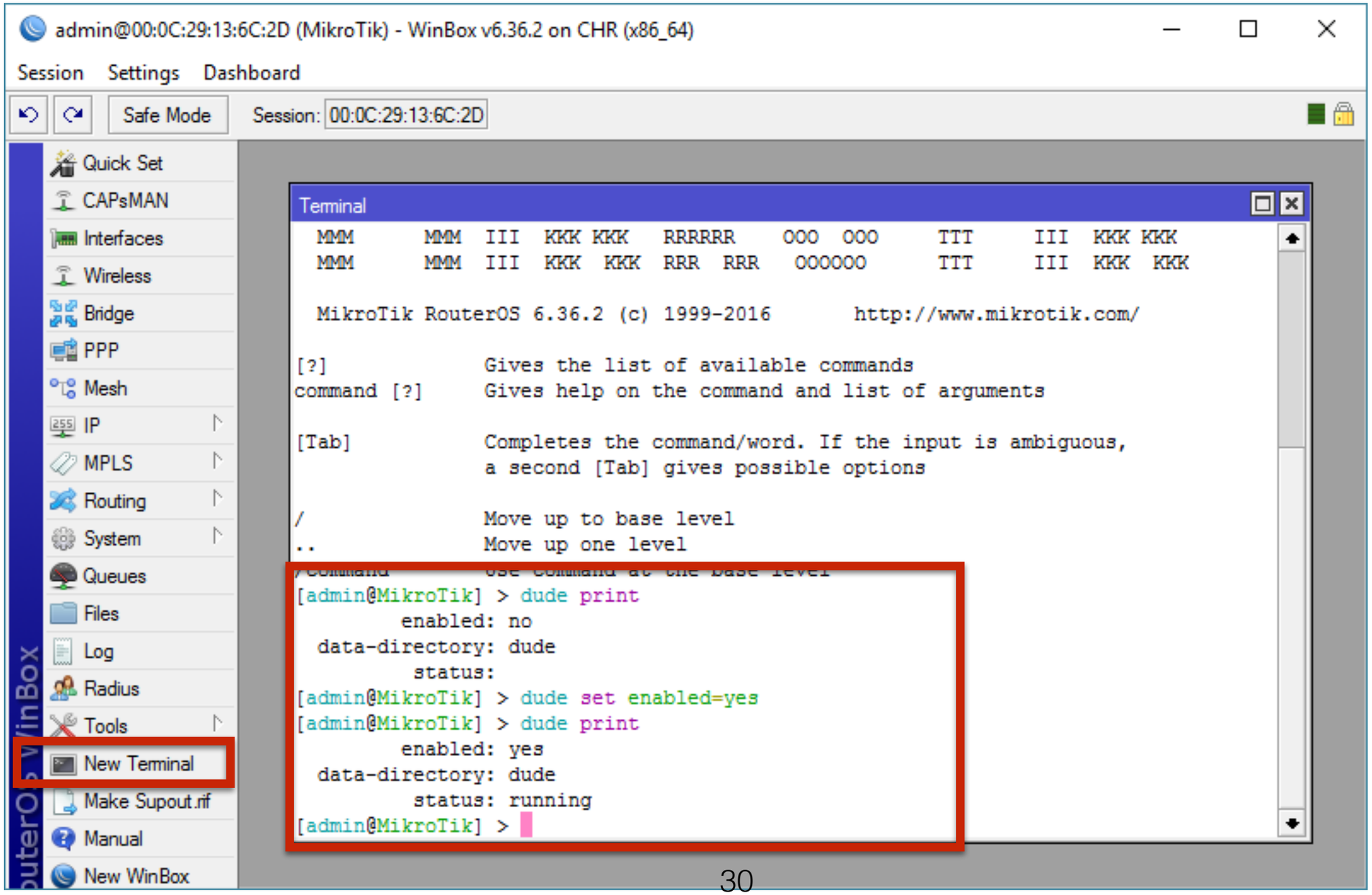
How to install

Change directory



How to install

Enable dude server



Basic Configuration

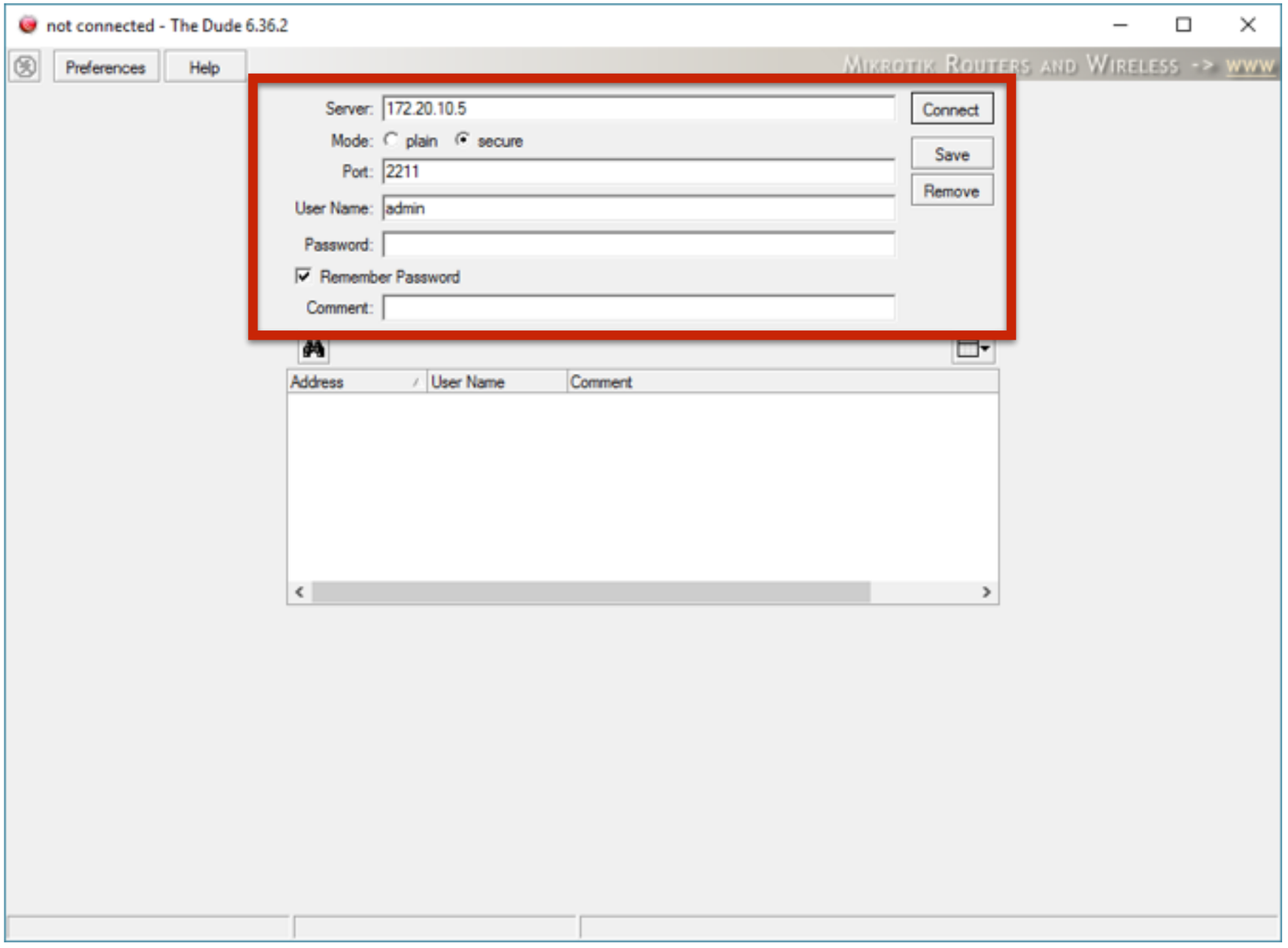
Cloud Hosted Router

	6.34.6 (Bugfix only)	6.36.2 (Current)	5.26 (Legacy)	6.37rc27 (Release candidate)
Images	vmdk, vhdx, vdi, img			
The Dude client	⬇	⬇	-	-
The Dude server	⬇	⬇	-	⬇
VMDK image	⬇	⬇	-	⬇
VHDX image	⬇	⬇	-	⬇
VDI image	⬇	⬇	-	⬇
Raw disk image	⬇	⬇	-	⬇
Extra packages	⬇	⬇	-	⬇
Changelog	📄	📄	-	📄
MD5	Σ	Σ	-	Σ

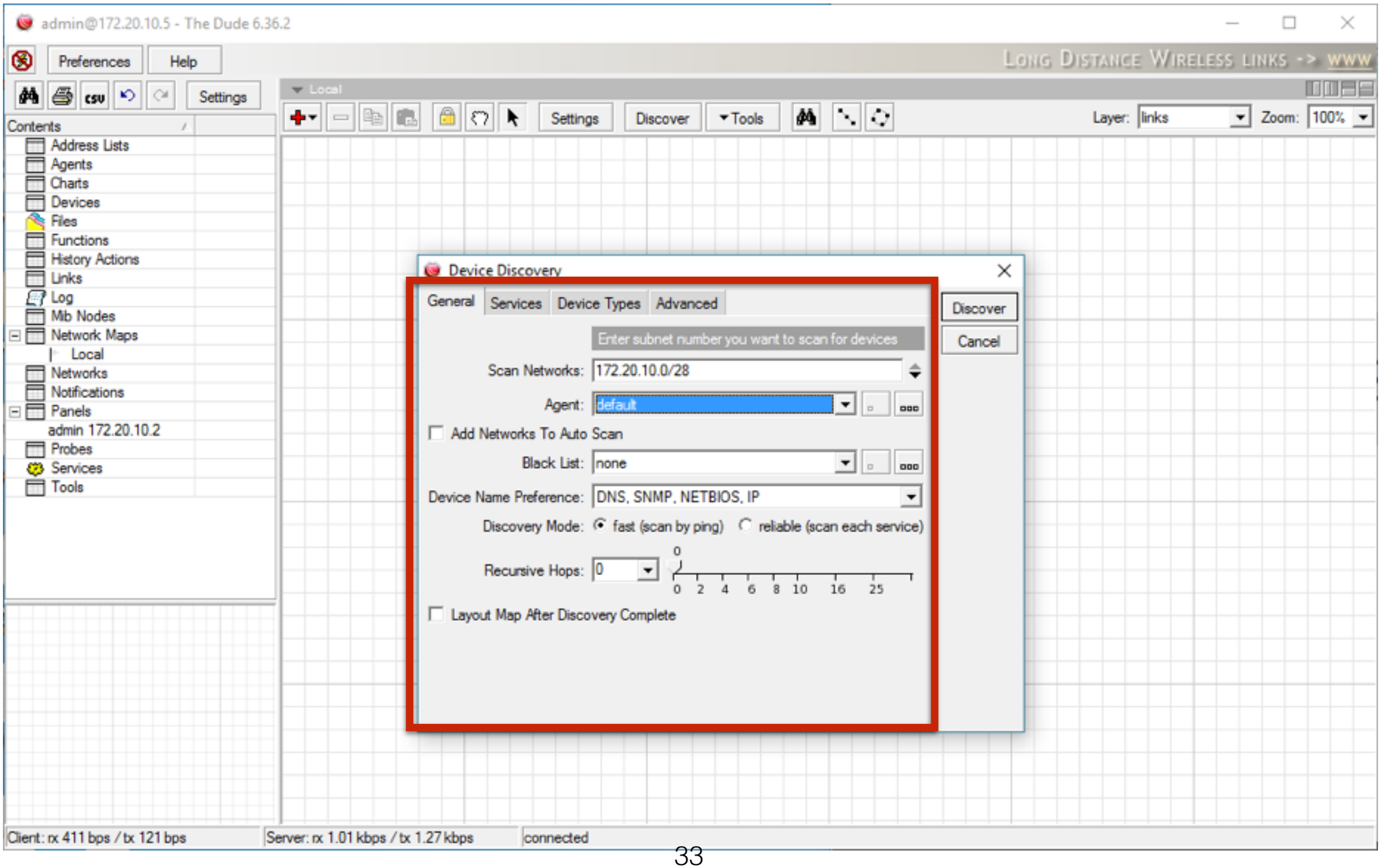
Download Dude Client : http://www.mikrotik.com/download

Basic Configuration

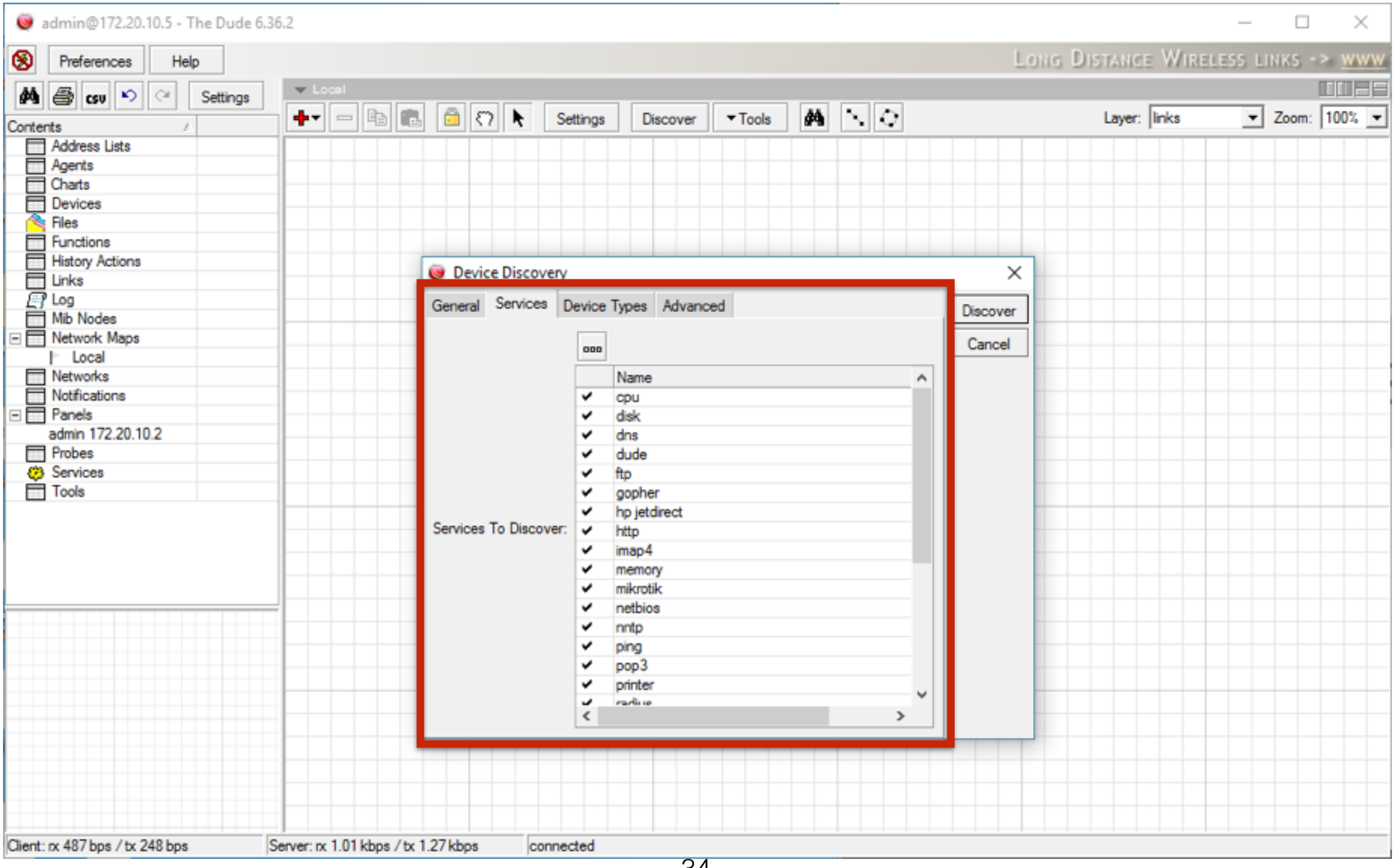
Connect to Dude server with dude client



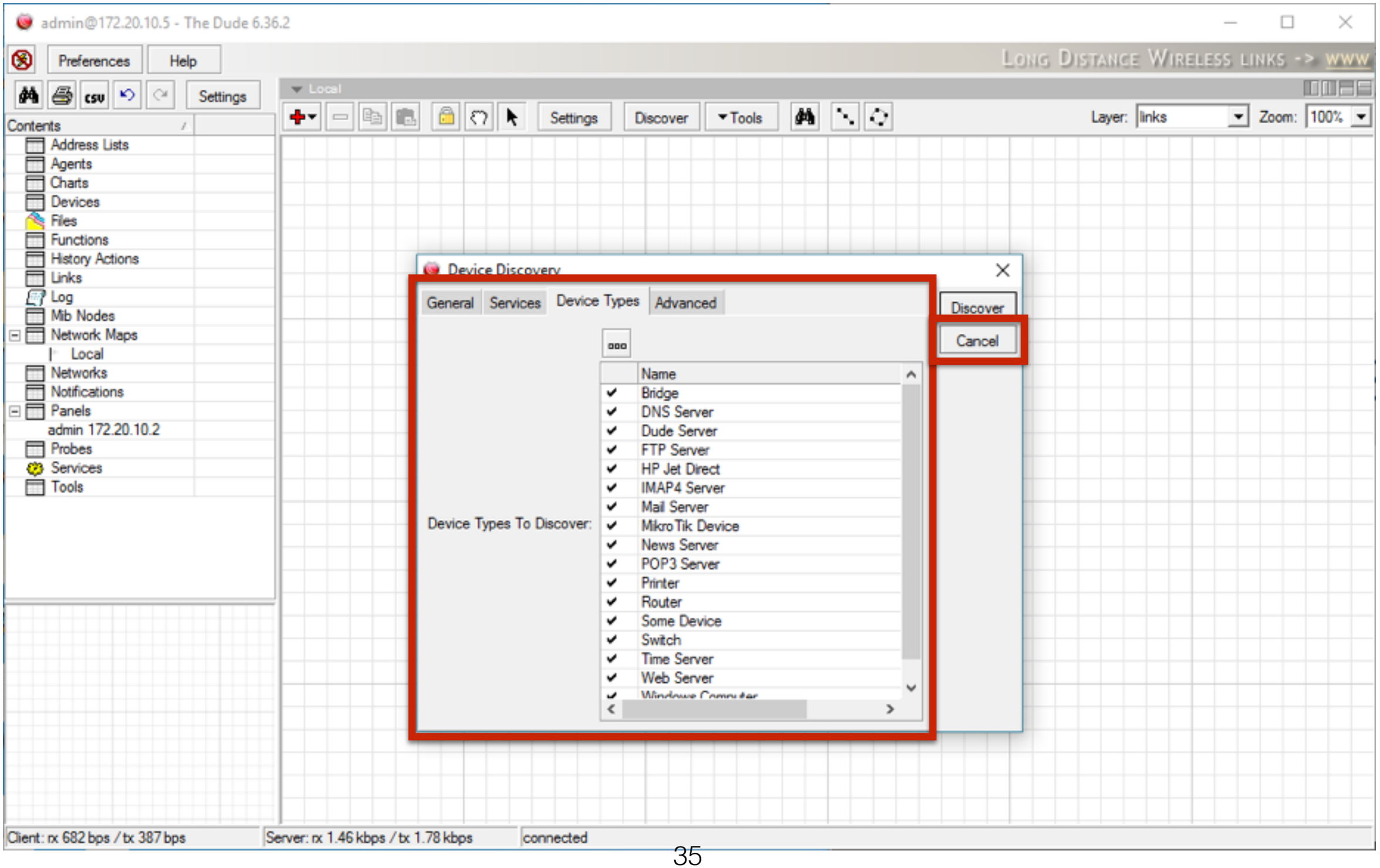
Basic Configuration



Basic Configuration

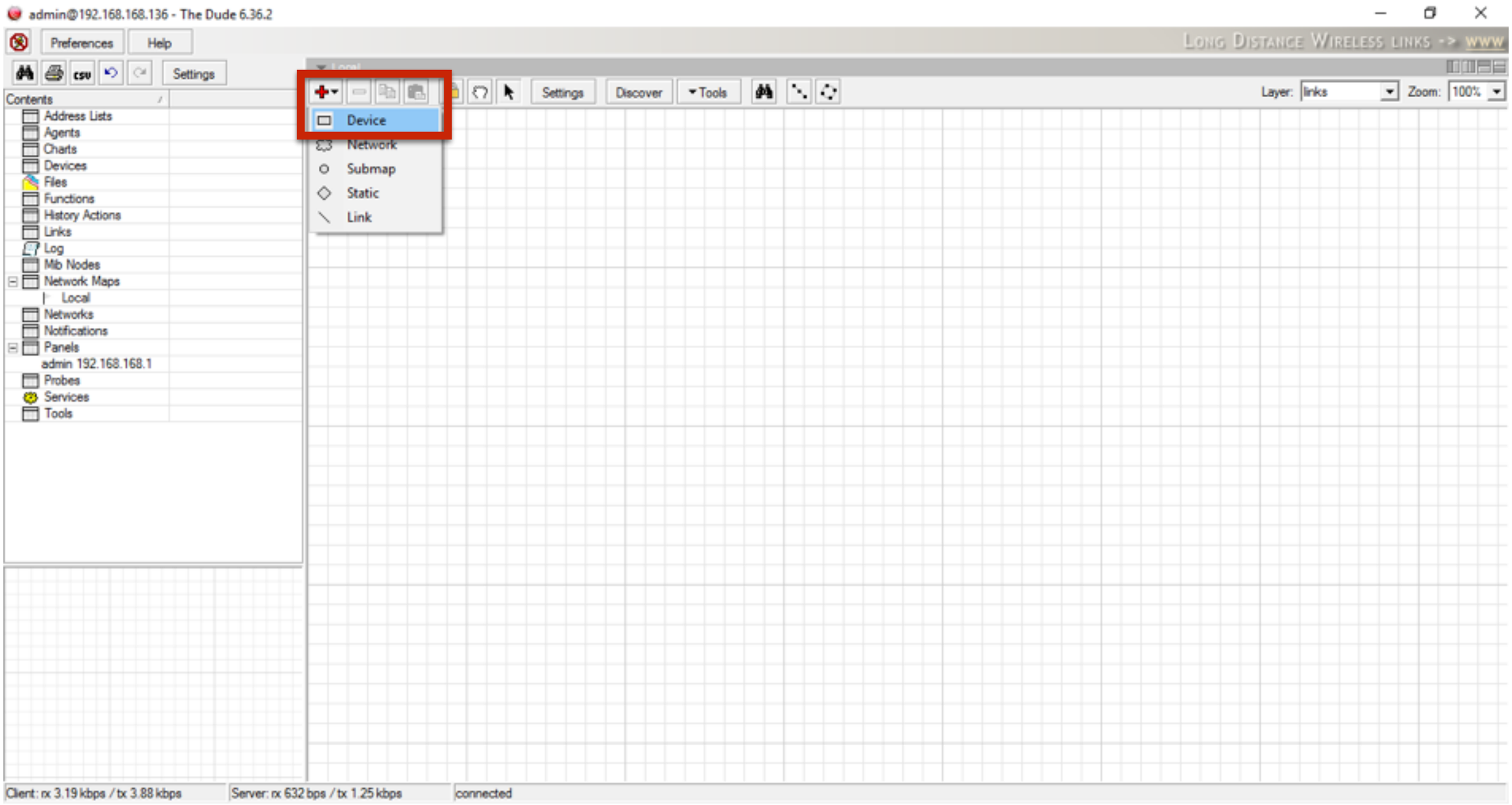


Basic Configuration



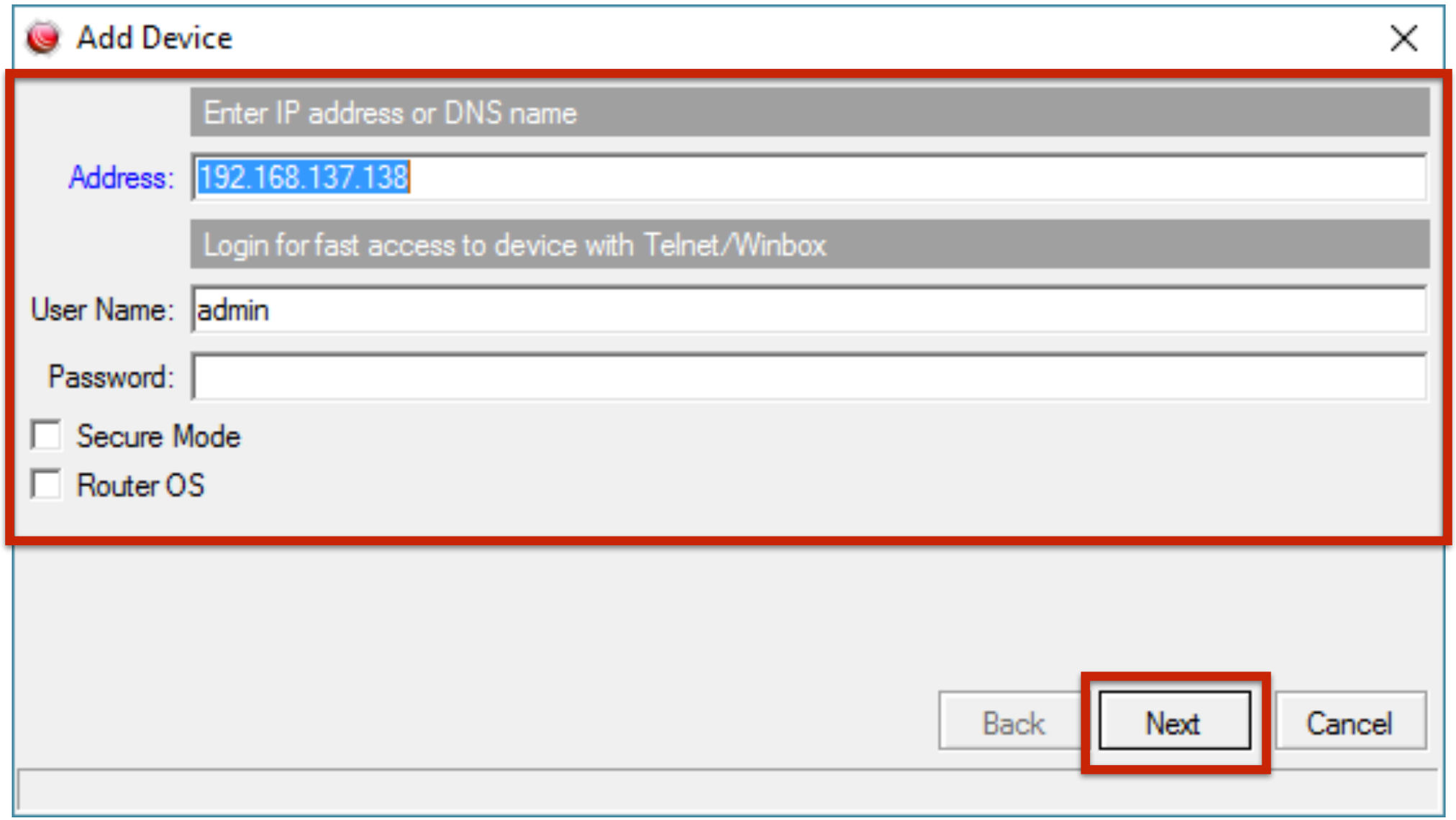
Basic Configuration

Add new device



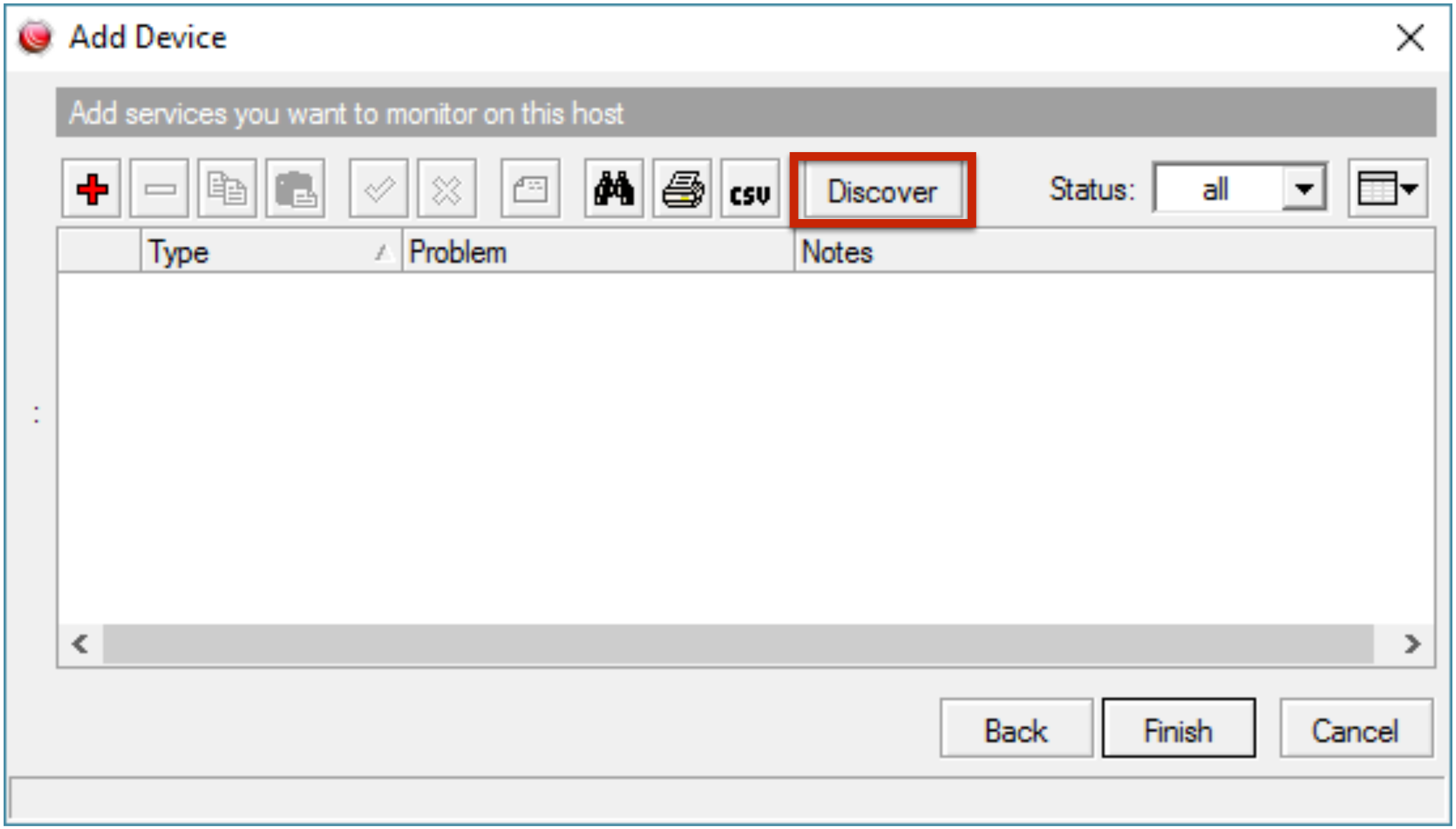
Basic Configuration

Add new device



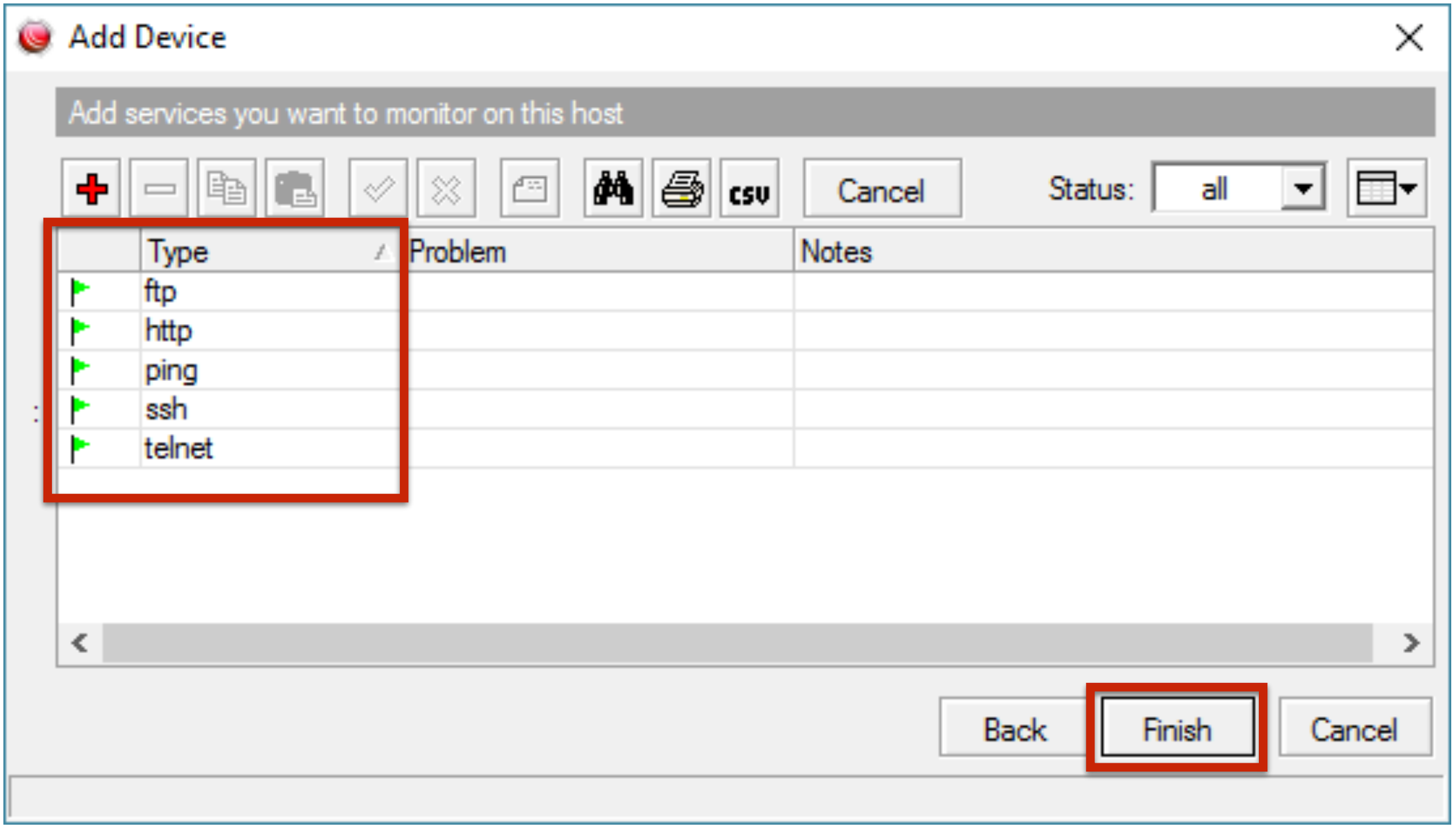
Basic Configuration

Add new device

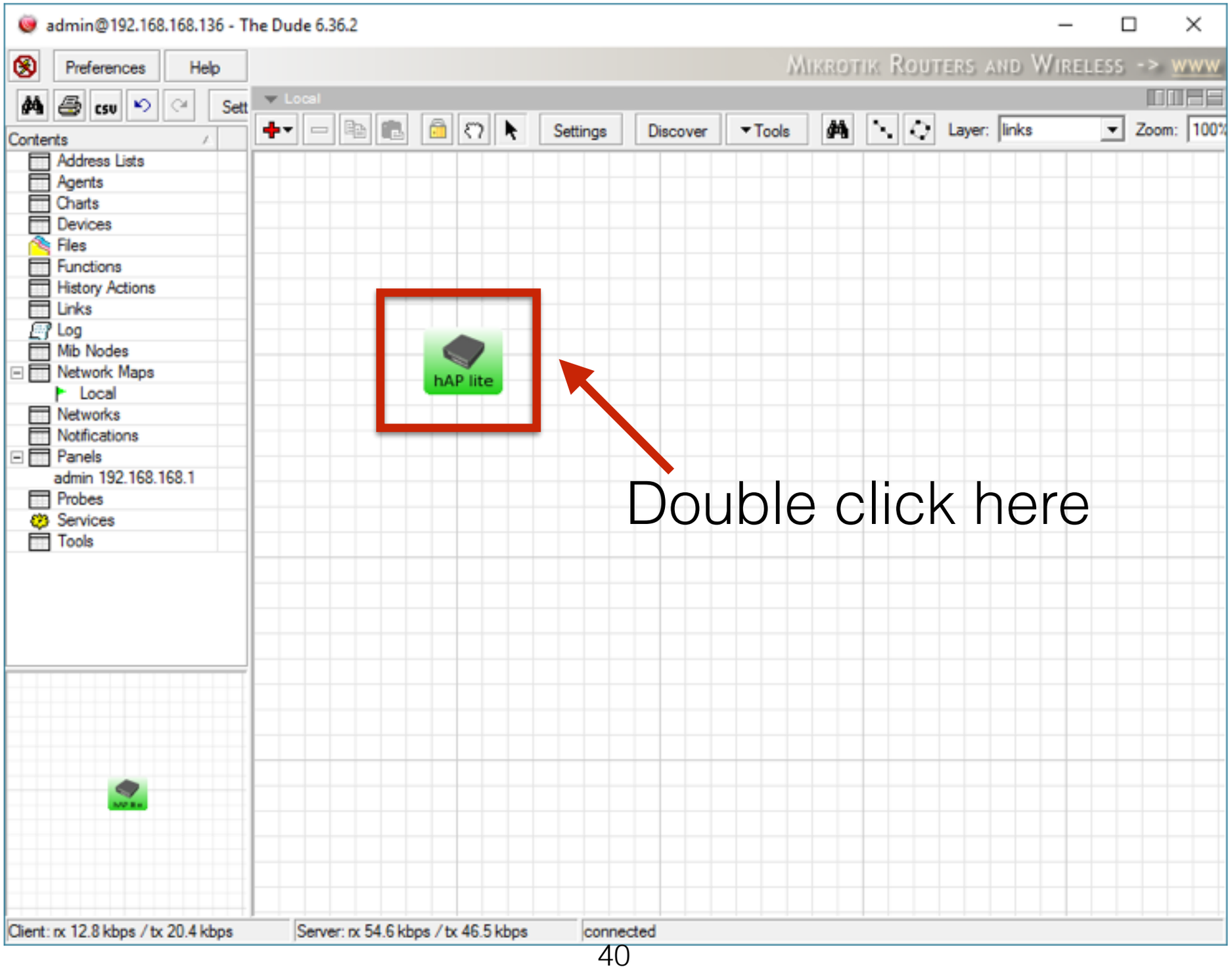


Basic Configuration

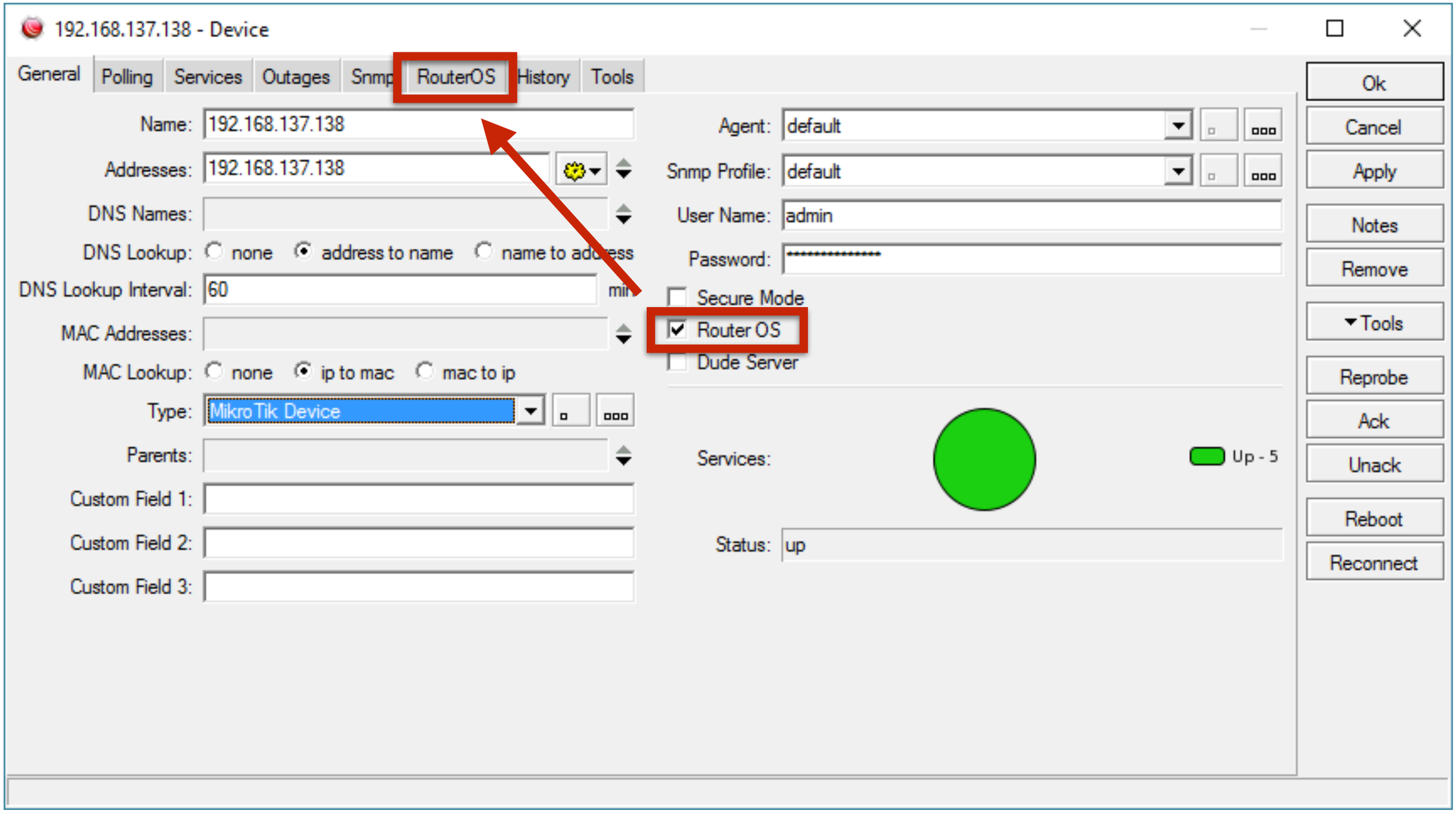
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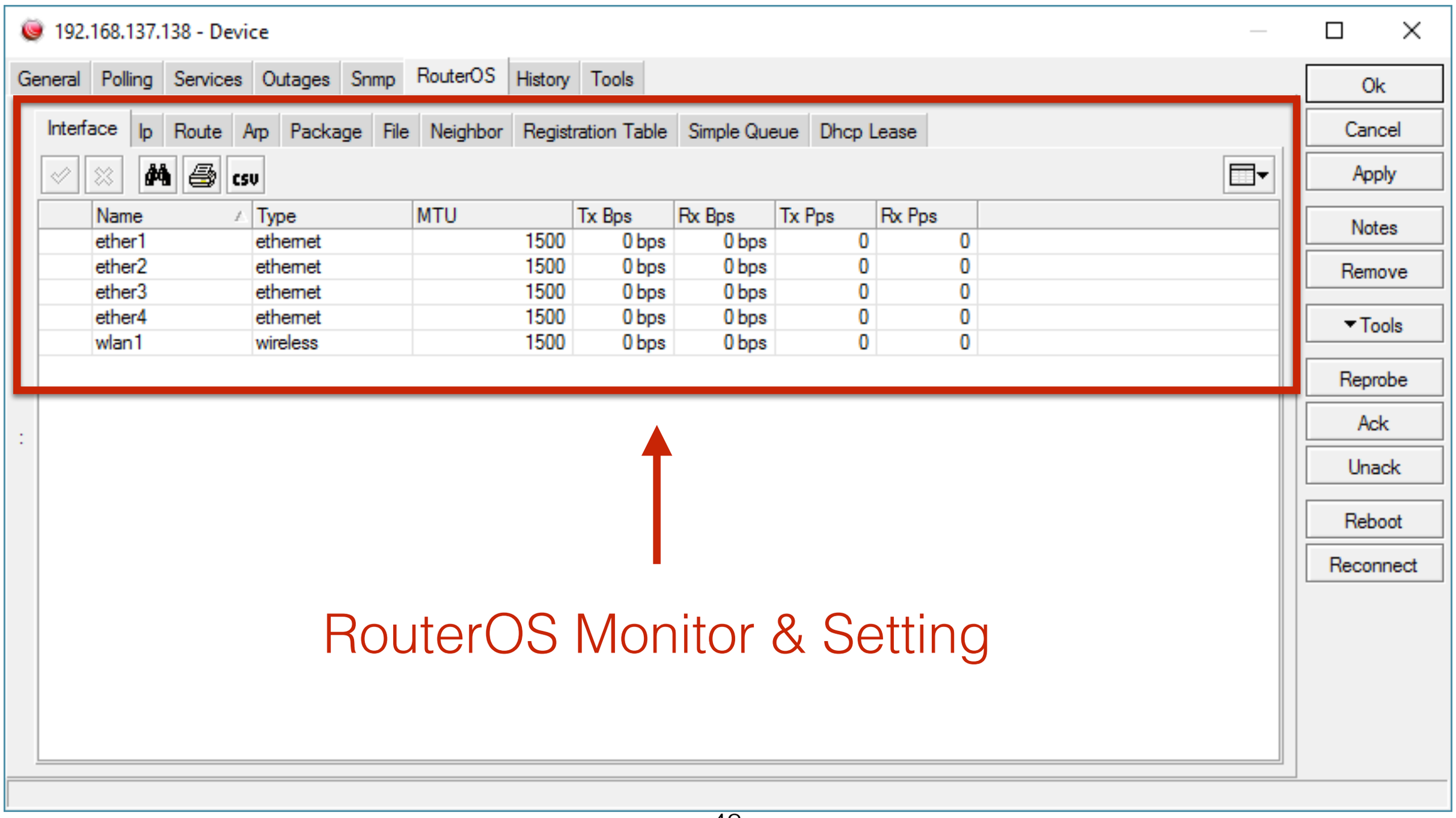
Basic Configuration



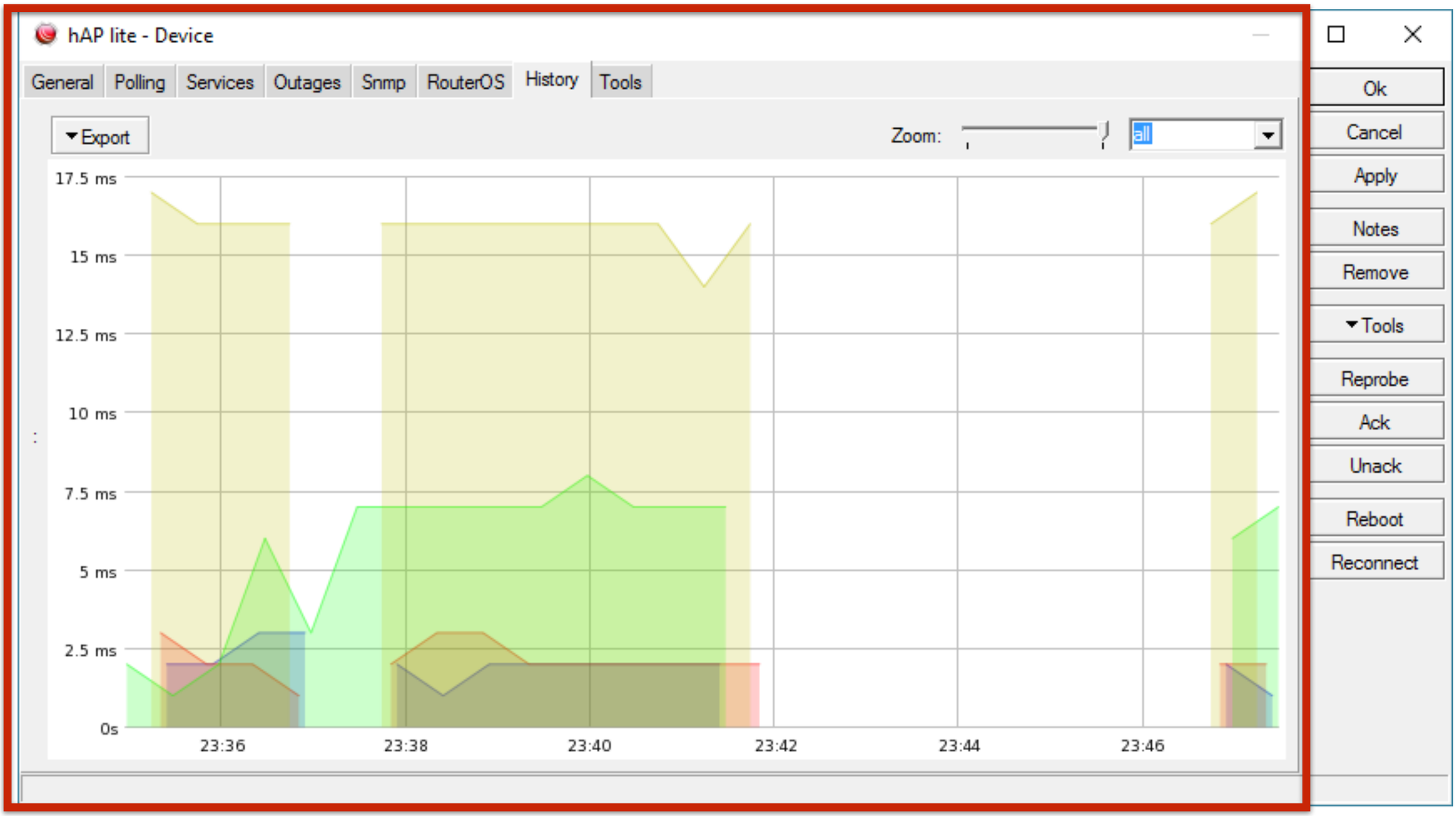
Basic Configuration



Basic Configuration

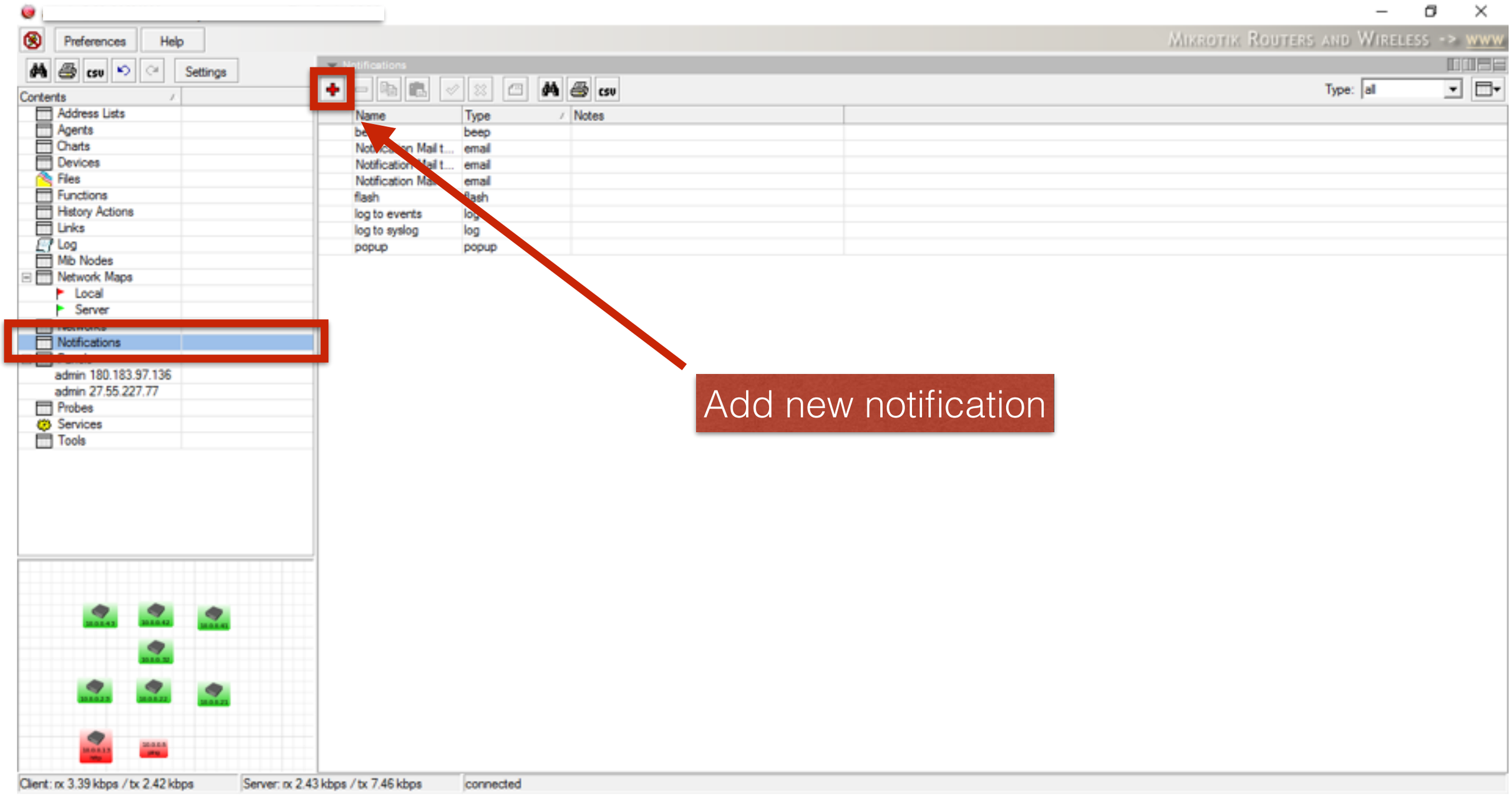


Basic Configuration

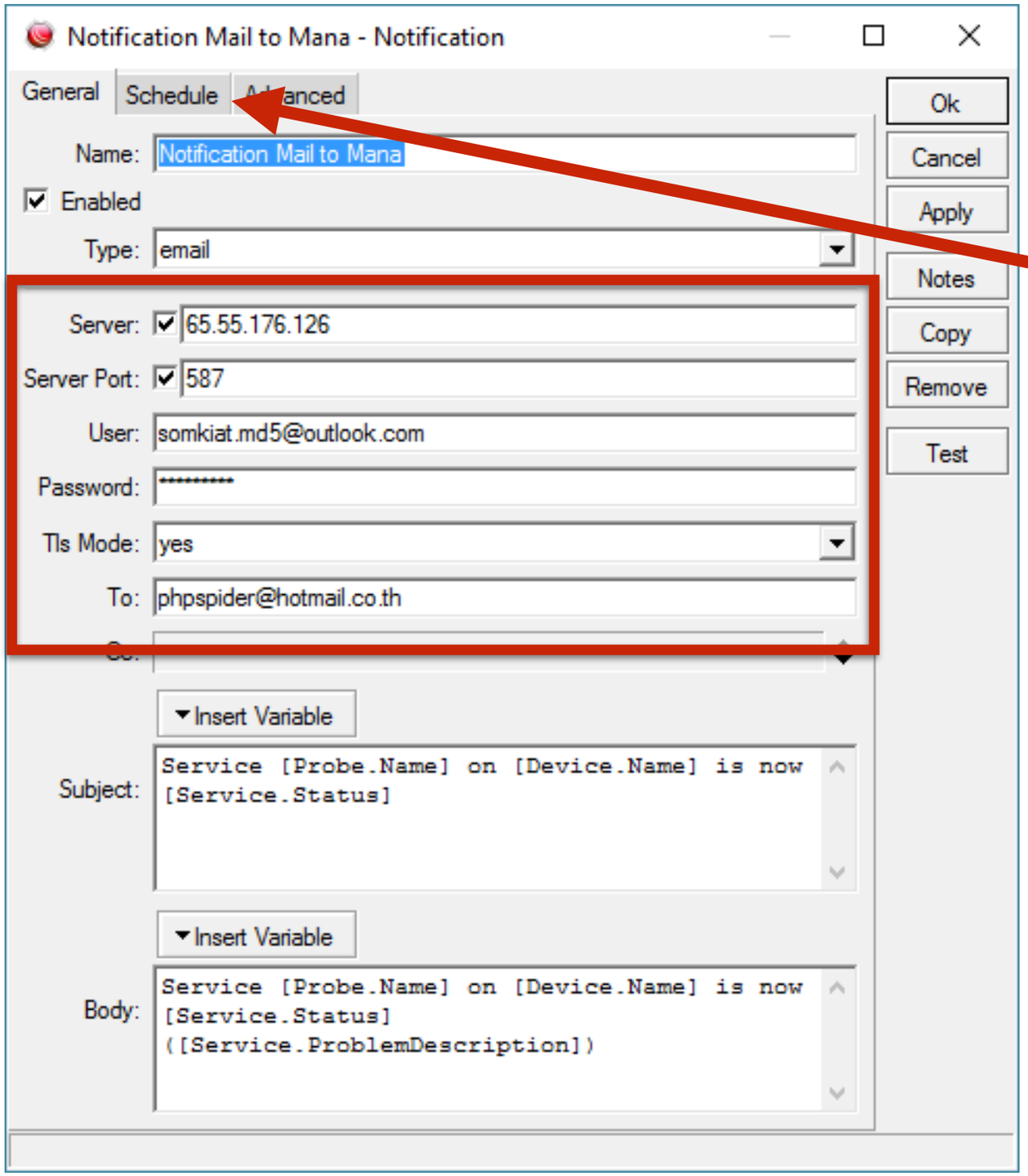


Uptime History

Email Notification



Email Notification



Notification schedule

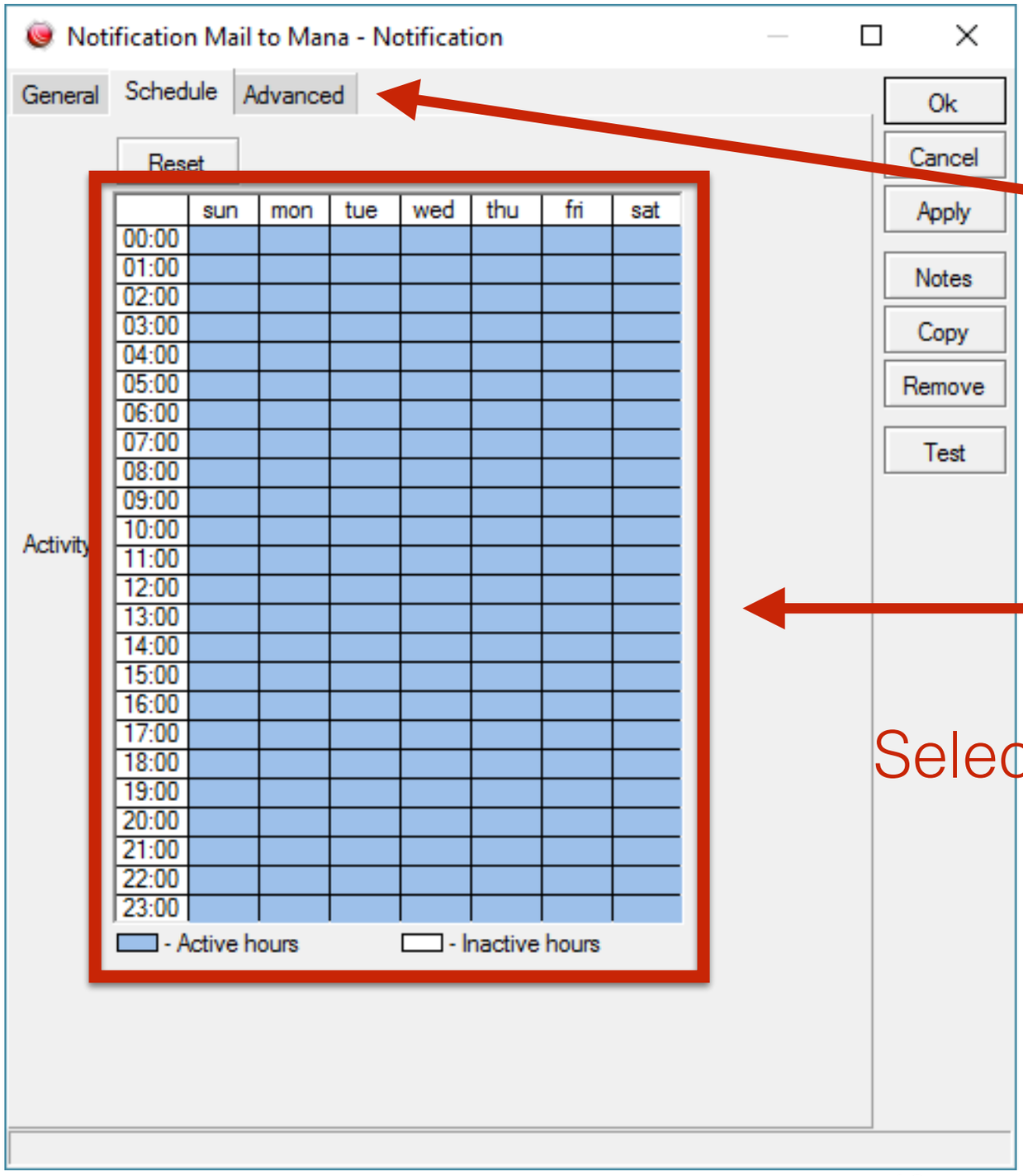
Example:

Outlook Server

Server: 65.55.176.126

Server Port: 587

Email Notification

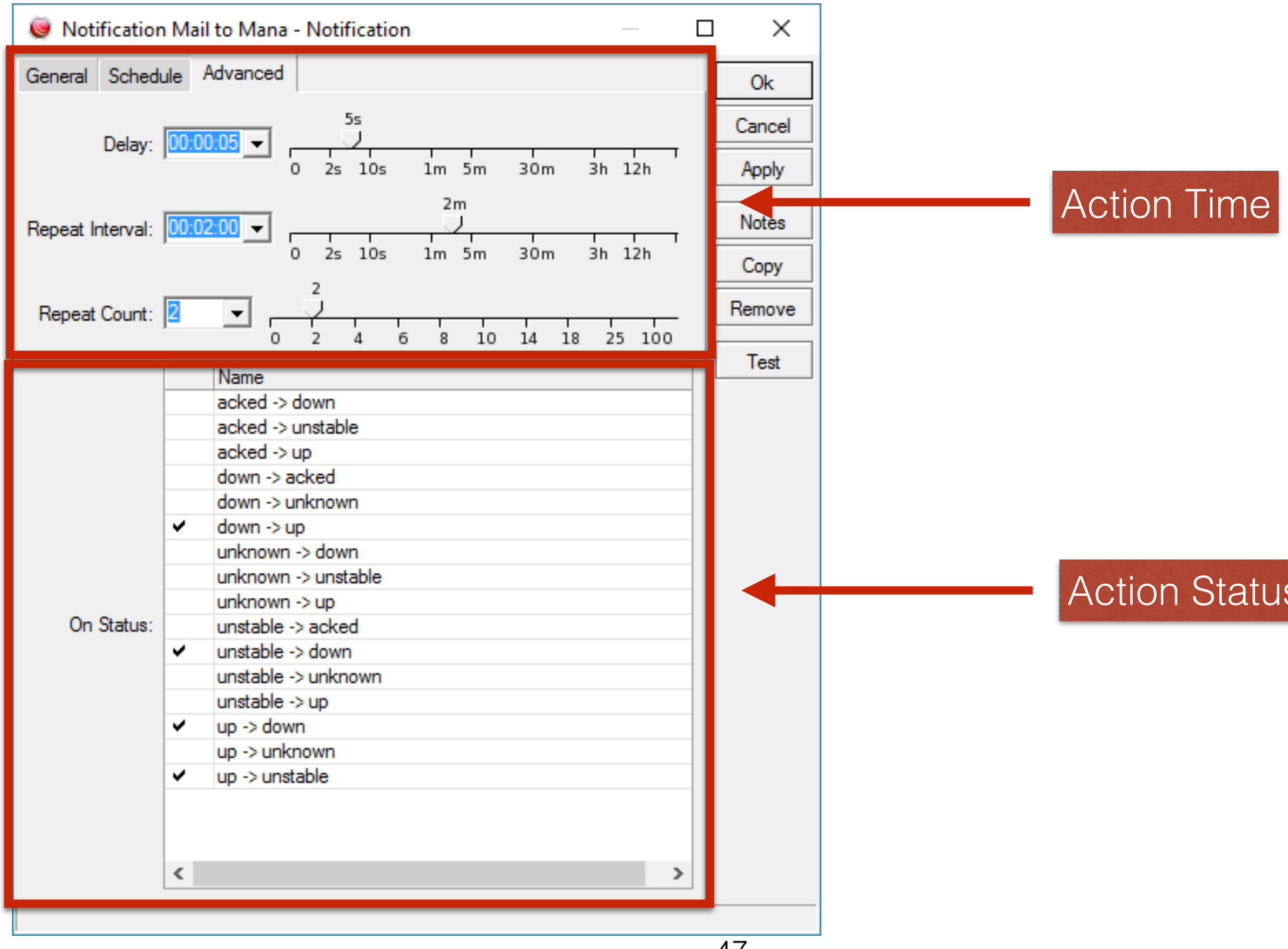


Advanced menu

Notification Time

Select for active and inactive (hours)

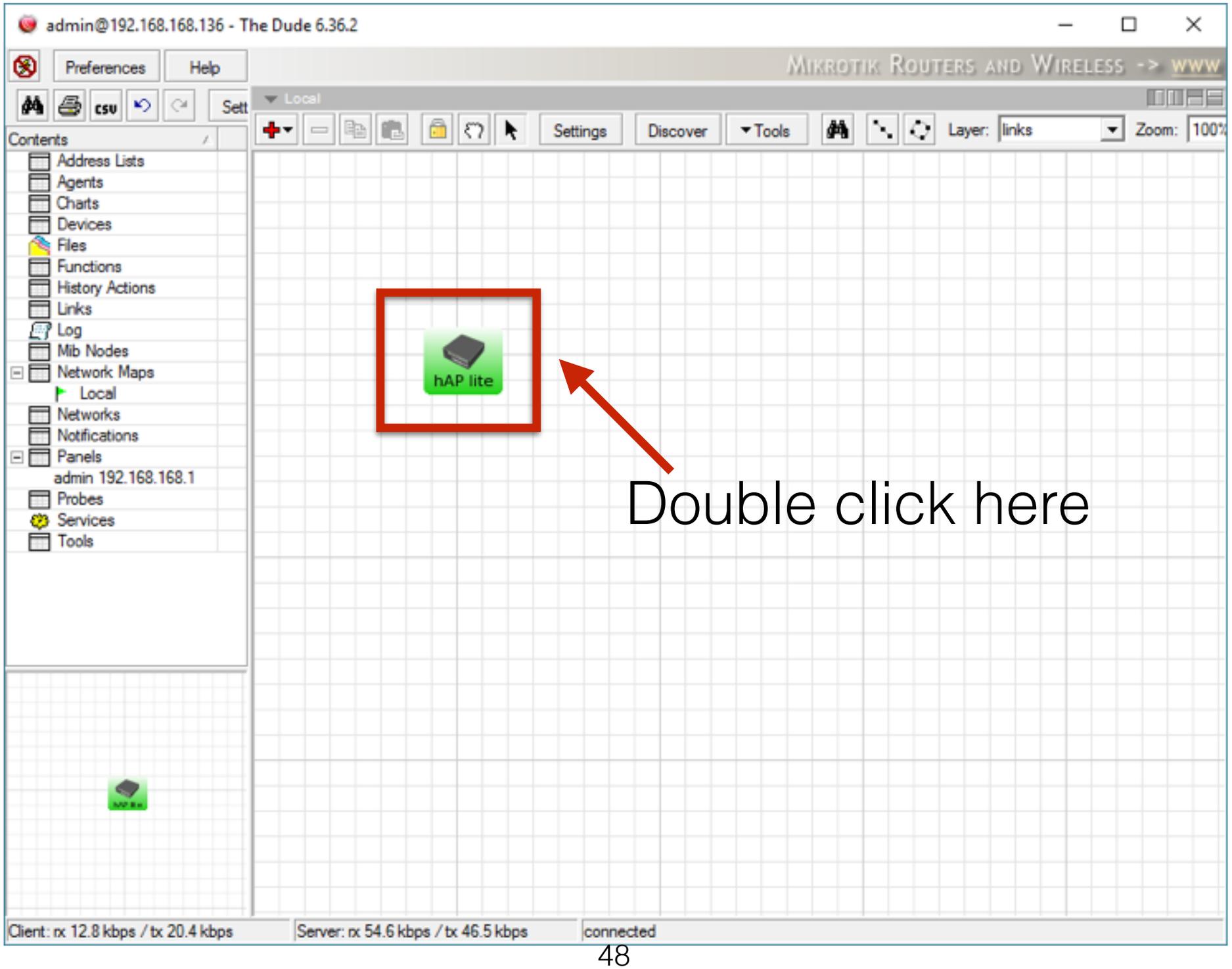
Email Notification



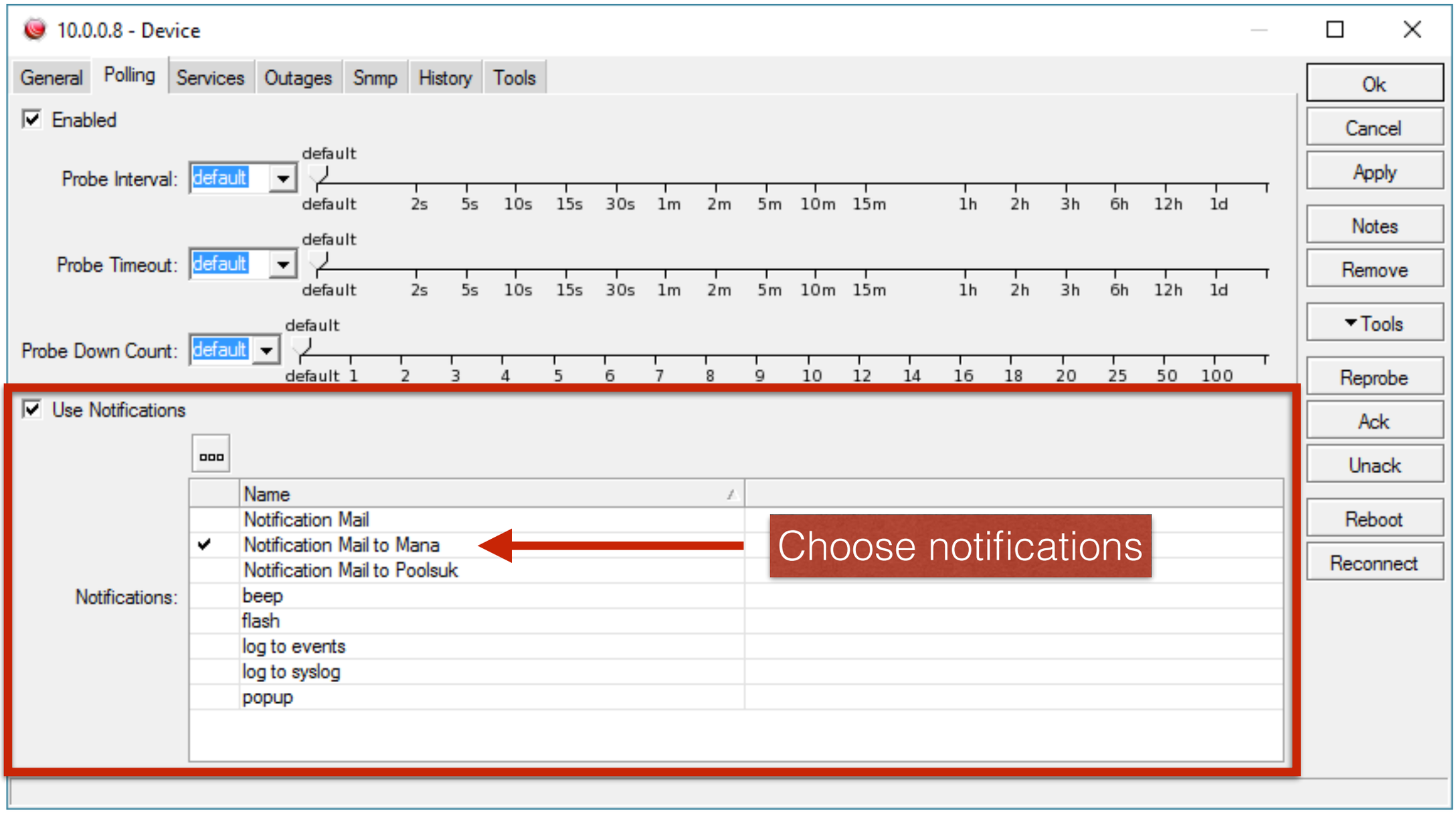
Action Time

Action Status

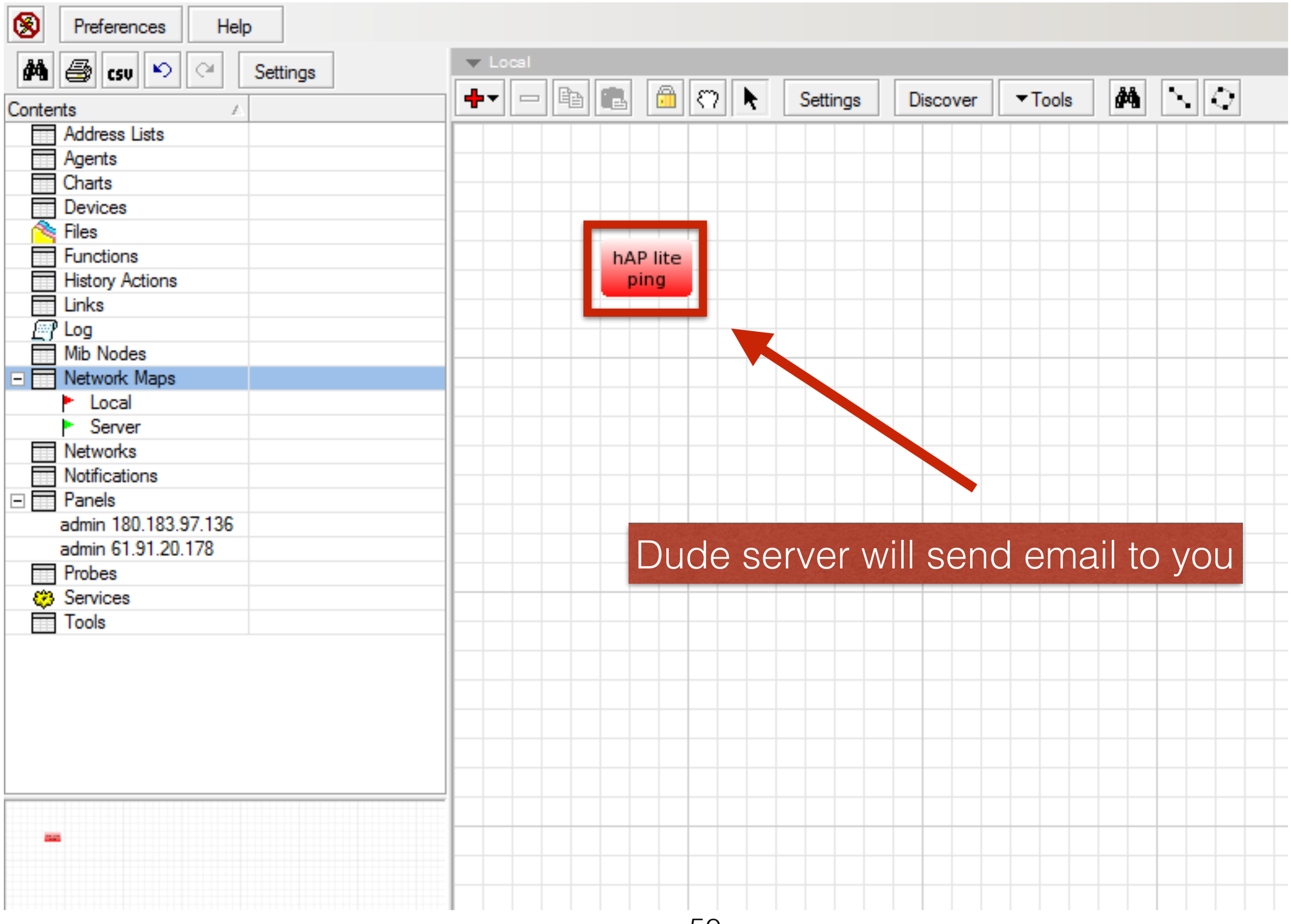
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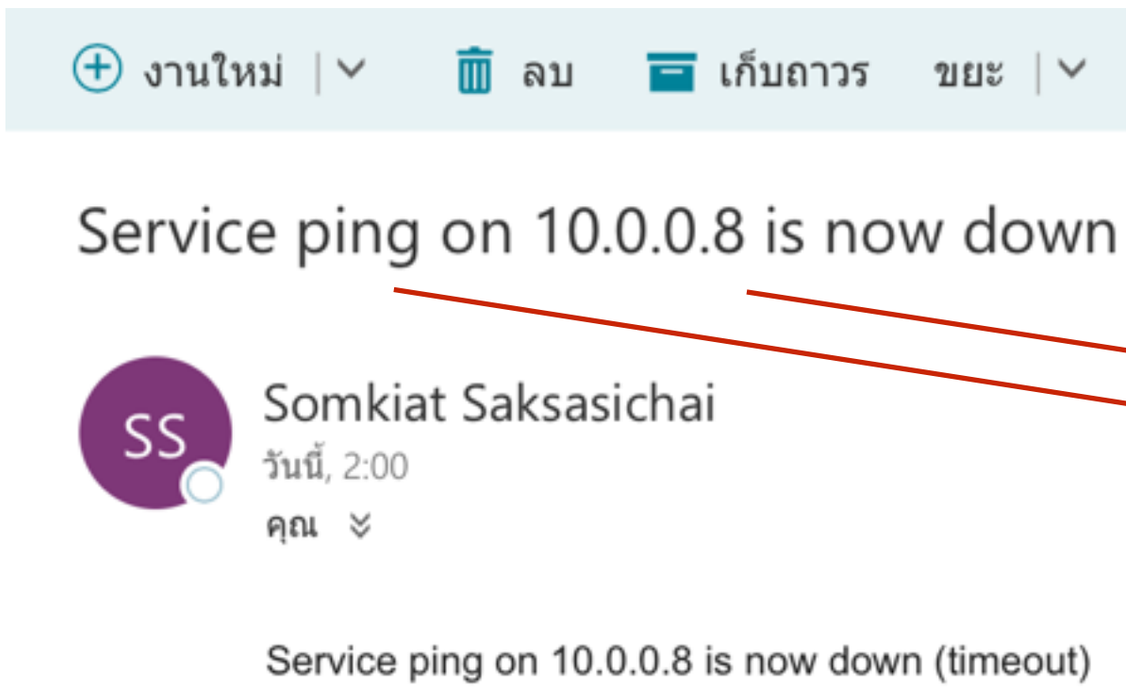
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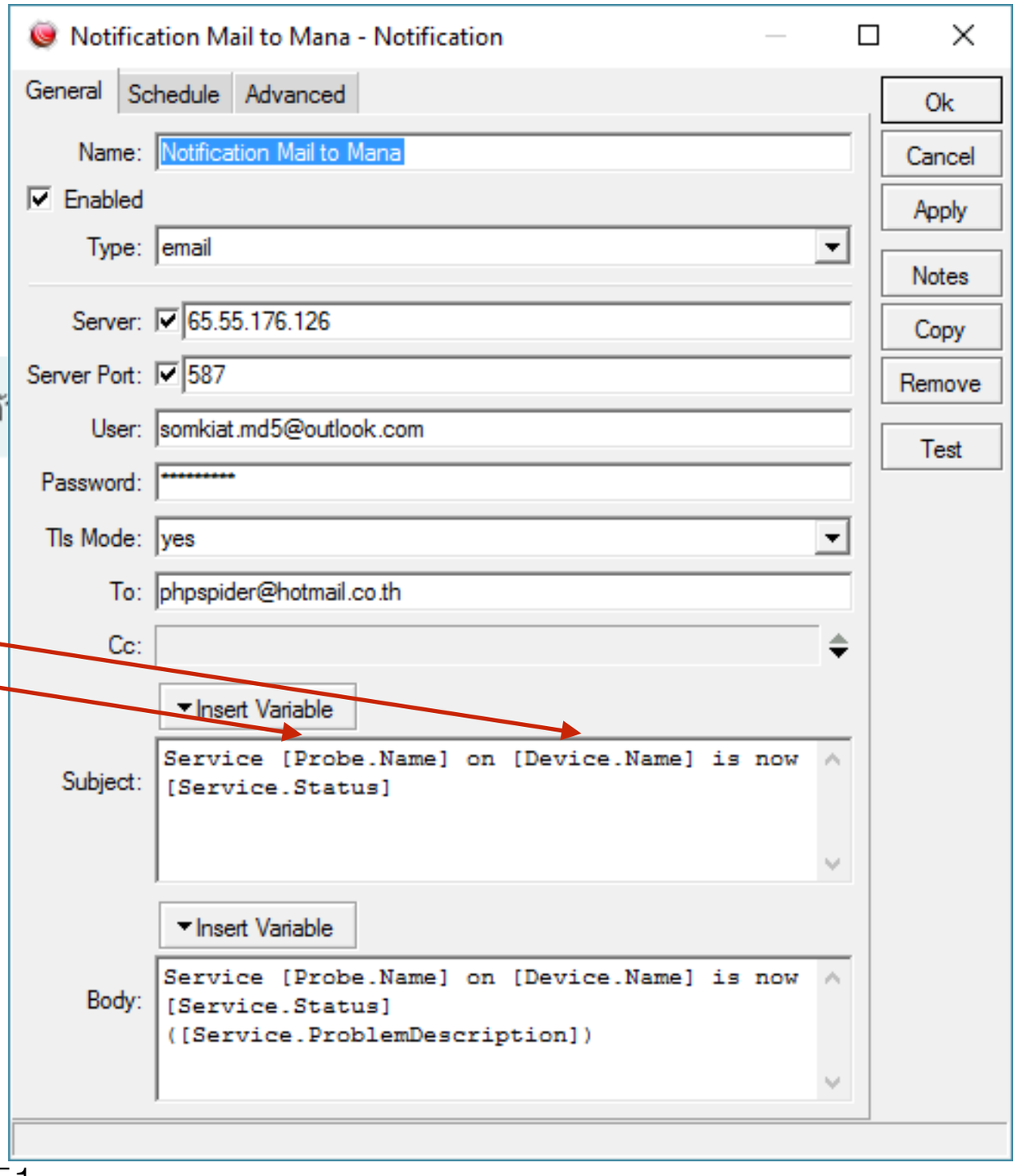


Email Notification



Email Notification





“Thank you for your attention”

–Mana Kaewcharoen