

LFS-305 <u>Linu</u>x On Azure

©ITGilde 1 / 9

X2GO

©ITGilde 2 /

Outline

Linux Graphical Desktop Environments on Azure

X2GO

©ITGilde 3 /

Linux Graphical Desktop Environments on Azure

©ITGilde 4 /

History...

- · Historically the GUI for UNIX is network based.
- · X Window system
 - · Reverse Client/Server model
 - X Window clients are programs that want to display graphics
 - · Can be GUIs, images etc.
- On Azure Linux VMs are 'headless'
 Using tunneling over SSH you can start X Window clients
- · Issue: X is an resource consuming protocol

X2GO - Optimize the X protocol...

- In the past many projects have tried to optimize the X protocol over the network. (E.g. dxpc)
- The company NoMachine delivered a commcerial solution with a separate NoMachine client and NoMachine server.
- NX Technology
- Versions prior to 4.0 were opensource. Versions 4.0 and higher are closed source.
- X2GO took up the gauntlet providing new server and clients for the 3.x protocol.
- · Compression rates of 1:100 and 1:1000 can be achieved.

What is needed for X2GO on client side?...

- On the Linux, Windows or OS/X system with a screen you will need the X2GO client package.
- · This will provide the so called Xserver.
- Download the client for your platform from: https://wiki.x2go.org/doku.php/download:start
- · Install the client on your system.

What is needed on Azure side?...

- · For CentOS/RHEL etc.
 - Install the EPEL repo.
 sudo yum install epel-release -y
 - Install the X2GO server software.
 sudo yum install x2goserver -y
 - Install the Mate Desktop environment sudo yum install @mate-desktop -y

Configure the X2GO client...

- Start the X2GO client
- · Choose Session → New Session
- · Fill in:
 - · Session name: e.g. CentOS on Azure
 - · Host name: e.g. ip address or FQDN server
 - · Select RSA/DSA key for connection
 - Select Session Type → MATE
 - · If needed; check setting of connection and input/output.
- · Close the settings.
- · Select AZ system for right part of screen.
- System will automatically log you on in the Graphical Desktop Environment.