



SUSE[®] Linux Enterprise

Setup and optimization for remote graphical access

Frederic Crozat <fcrozat@suse.com>
Enterprise Desktop Release Manager

Scott Reeves <sreeves@suse.com>
Enterprise Desktop Development Manager

Agenda

- Remote Desktop Methods
- Demo
- Other Remote Access Methods
- Session monitoring and Management



Remote Desktop Server: XDMCP

- Highly discouraged by SUSE
 - Not secure: traffic is not encrypted
 - Not adapted to modern desktops, causing huge latency
- But still available



Remote Desktop server: VNC

- Recommended protocol (security, caching)
- Available through several means:
 - Independent session with XVNC (configured through YaST Remote Administration module)
 - Sharing existing GNOME session, through vino (GNOME Control Center / Sharing)



Remote Desktop Server: RDP

- Microsoft protocol, always available on Windows products (both as client and server)
- xrdp is providing independent graphical sessions support



Remote Desktop Clients

- Vinagre
 - Connect to VNC / SSH / Spice / RDP sessions
- Vncviewer
- Browser
 - Java
- Security
 - TLS support



Demo



Other Remote Access Methods

- Connection via ssh
 - Only for applications
 - not full desktop
 - Can't attach to running applications

Graphical apps in containers

- Can be done but not supported

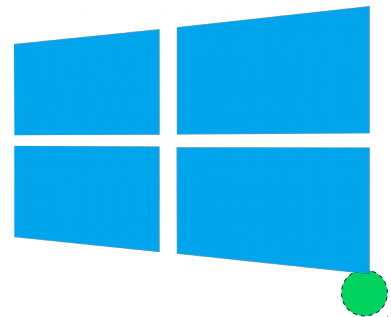
Beware, X11 socket is NOT secure

- In the future, xdg-app and wayland will help



Accessing SUSE Linux Enterprise systems from Windows

- For RDP: built-in
- For X11:
 - Micro Focus Reflection X 2014:
 - Standalone X server or Domain mode (distributes workload and connectivity across multiple tiers)
 - Xming (Free X server for Windows)
 - Exceed
 - Cygwin X server
- For VNC:
 - Vncviewer
 - Libvirt Virt-viewer (TLS support)



Session monitoring and management

- systemd-logind has replaced ConsoleKit
- logind [list-sessions]: output all sessions
- logind session-status <session-number>:

```
2 - fcrozat (1000)
    Since: lun. 2013-07-29 11:58:41 CEST; 4h 13min ago
    Leader: 1550 (gdm-session-wor)
    Seat: seat0; vc7
    Display: :0
    Service: gdm-password; type x11; class user
    State: active
    CGroup: systemd:/user/1000.user/2.session
           └─ 1560 /usr/bin/gnome-session
```

- logind kill-session|kill-user|
terminate-seat <name>



Tips for debugging / optimizing

- GDM
 - Enable debug in `/etc/gdm/custom.conf` and check the logs in `/var/log/gdm`
- Switch to `xdm` / `icewm` for specific use-cases
 - `/etc/sysconfig/displaymanager` and `/etc/sysconfig/windowmanager` for system-wide changes



Questions ?





We adapt. You succeed.