oVirt as a VDI Solution
Remote Console Access in oVirt Engine

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Agenda

- (Very short) Introduction to the topic
- Supported protocols in oVirt and their features
- HTML5 clients live demo
- Future plans, feature priorities discussion
Introduction – console in oVirt engine

- What is it (for)?
- Where is it implemented?
- How is it used in the web application?
Introduction – console in oVirt engine

- What is it (for)?
Introduction – console in oVirt engine

• Where is it implemented (SPICE case)?
Introduction – console in oVirt engine

- How is it used in the web application?
Introduction – console in oVirt engine

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Introduction – console in oVirt engine

- How is it used in the web application?
Supported Protocols

- SPICE
- VNC
- RDP

- Various client applications
- Various protocol's features supported
SPICE

- Clients
  - Native client (virt-viewer)
  - Browser plugin (Firefox)
  - SPICE-HTML5 (experimental)
- Various features supported (cont.)
- Many features still not exposed in oVirt
SPICE (cont.)

- Exposed features
  - SPICE proxy
  - USB auto-share
  - Smartcard support
  - WAN options control
  - spice-vdagent
- Planned for 3.4
  - Clipboard control
  - SSO control
  - SPICE-HTML5 improvements
VNC

- Clients
  - Native client (virt-viewer)
  - NoVNC (HTML5)
- Well-known protocol, widespread
- Limited features
RDP

- **Clients**
  - Native client (mstsc.exe)
  - Browser plugin (MS ActiveX RDP Add-On)
- **Required guest OS support (Windows only)**
- **Feature-rich protocol**
  - most features not exposed in oVirt (except drives redirection and SSO)
## Summary – Client Support Matrix

<table>
<thead>
<tr>
<th></th>
<th>SPICE</th>
<th>VNC</th>
<th>RDP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Native Client</strong></td>
<td>virt-viewer</td>
<td>virt-viewer</td>
<td>MS mstsc</td>
</tr>
<tr>
<td><strong>Plugin</strong></td>
<td>virt-viewer</td>
<td></td>
<td>MS ActiveX</td>
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</tbody>
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- **GNU/Linux**
- **MS Windows**
- **Multiplatform**
Live Demo

- HTML5 console clients
  - noVNC
  - SPICE-HTML5
Future Plans

- SPICE features not yet exposed in oVirt
- Polish html5 implementations
- Making websocket proxy optional
- Sound in spice-html5 using opus codec
- SPICE plugin for Firefox on Windows
- Seamless switching between SPICE and VNC during VM run (3.4)
- Improved console access (better locking/multiple access ...)
- Mixing secured and unsecured channels for SPICE
- RDP on GNU/Linux
THANK YOU!

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• Q&A
• Future plans discussion