

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



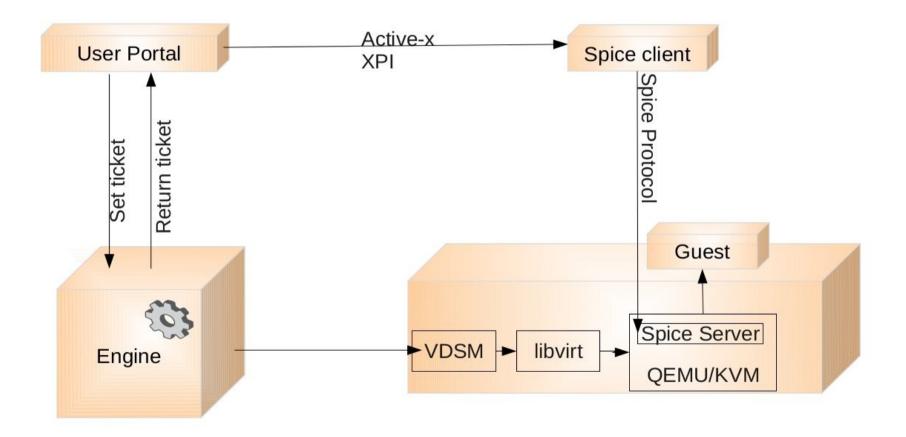
- What is it (for)?
- Where is it implemented?
- How is it used in the web application?



• What is it (for)?



• Where is it implemented (SPICE case)?





Edit Virtual Machine			*
General System Initial Run Console Host	Cluster Based on Template Operating System Optimized for	nfs_clu/nfs_dc Blank default OS Server	•
High Availability Resource Allocation Boot Options Custom Properties	Protocol USB Support Monitors Smartcard Enabled Advanced Parameters Soundcard enabled Virtio Console Device Enabled	SPICE Disabled 1	•
Hide Advanced Options	::	OK Can	cel

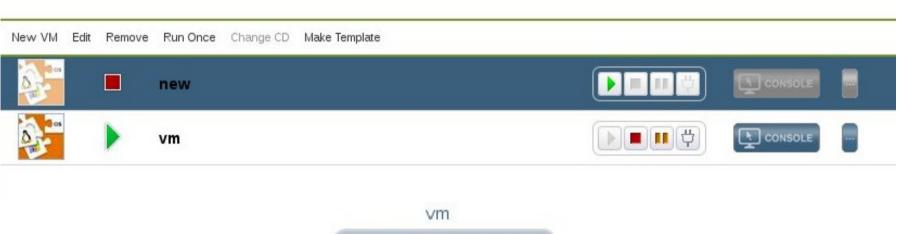


Console Option	s		*
Select Console for 'v	m'		
SPICE	■ VNC	Remote Desktop	
Console Invocation			
Auto			
Native client			
SPICE HTML5	browser client (Tech pr	eview)	
SPICE Options			
Pass Ctrl-Alt-D	el to virtual machine		
Enable USB A	uto-Share		
■ Open in Full S	creen		
□ Enable SPICE	Proxy		
		OK Cance	











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



	SPICE	VNC	RDP
Native Client	virt-viewer	virt-viewer	MS mstsc
Plugin	virt-viewer xpi		MS ActiveX
HTML5	SPICE- HTML5	noVNC	

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