

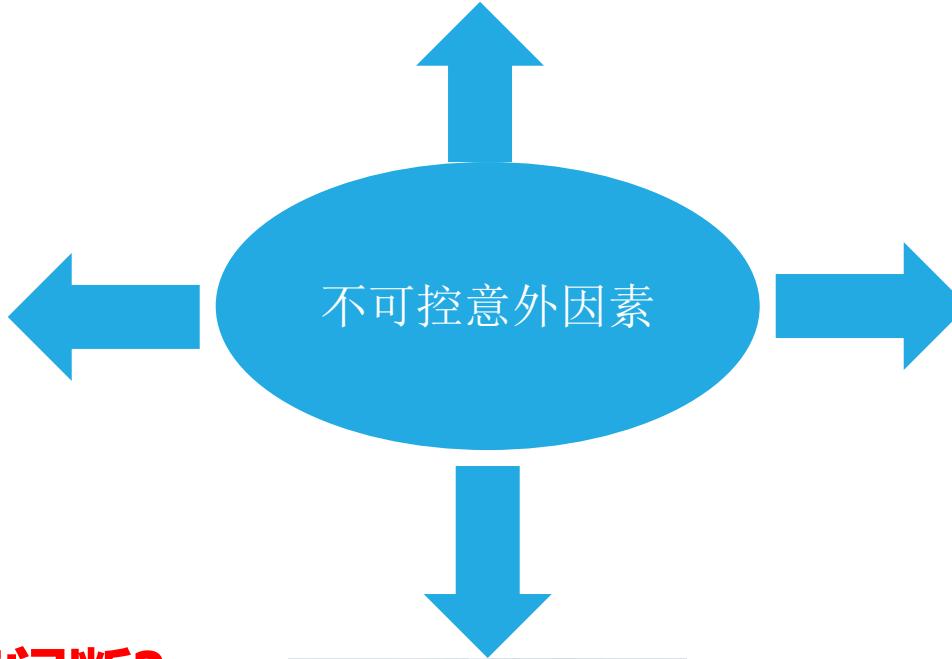


Citrix Workspace

保障企业办公不间断



不可控意外因素带来的业务挑战



如何保障企业业务连续，办公不间断？

员工和企业的不同诉求



Users

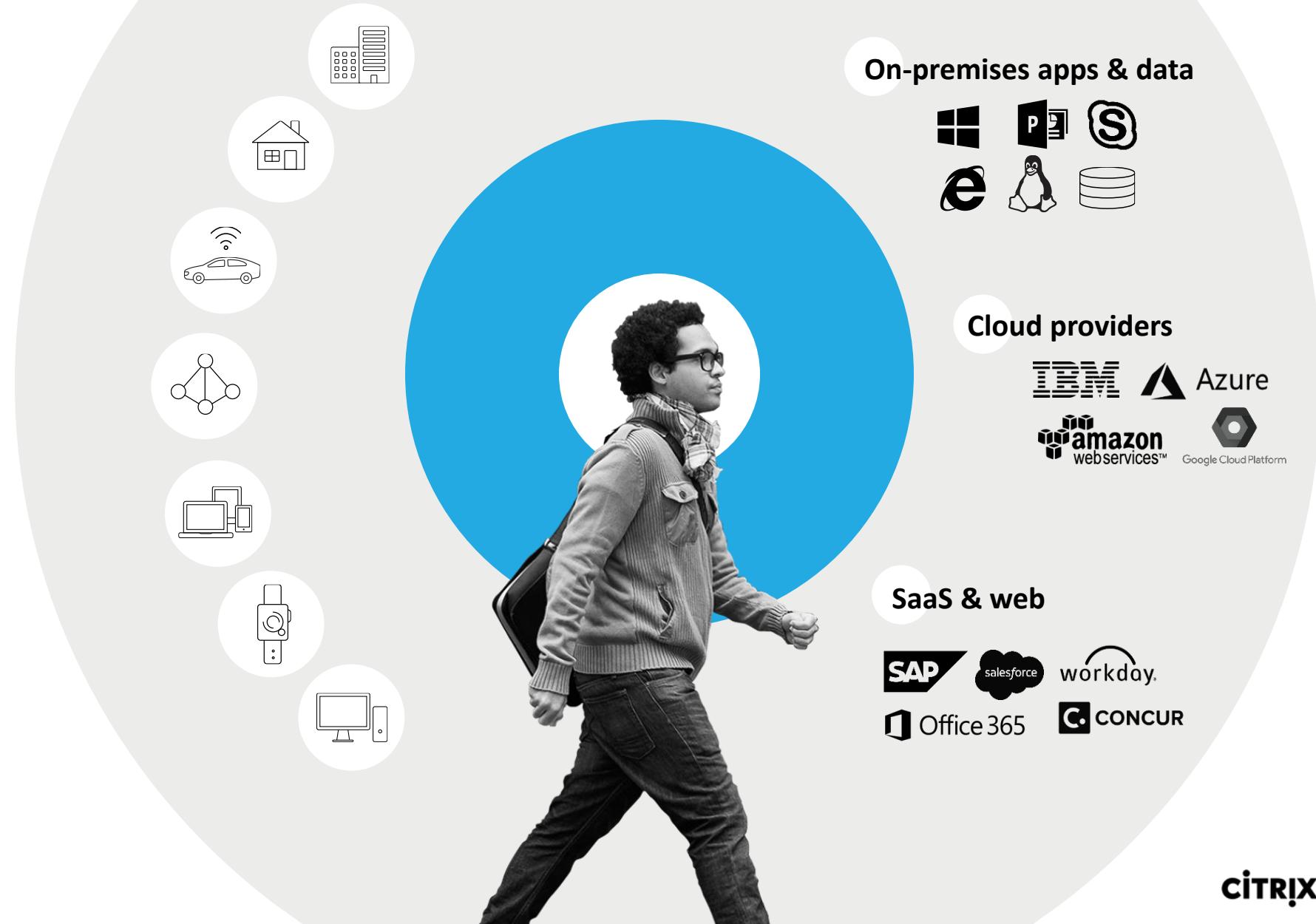


Secure IT

- 无论在哪里都能使用原来的办公软件。
- 支持我自己的PC、笔记本，最好支持手机和平板电脑
- 使用简单，最好不要安装配置
- 使用体验好，最好和在公司办公一样
- 能支持企业所有办公软件
- 保障企业数据安全，无安全风险
- 搭建简单，对架构硬件需求小
- 容易集中运维和管理
- 灵活扩大和缩小规模

Citrix如何为居家办公和远程
访问提供最佳和最安全的体验。
保障业务连续办公不间断？

工作无关地点



Citrix Workspace实现价值

远程访问

任何时间，任何地地点访问企业办公环境

同时使用所有企业应用

只需要Internet和4G

高可靠性保障办公不间断



保障安全

无需开放VPN，保障企业内网安全

数据不外传，只传递指令不传递数据

多因素身份安全保障

水印、录像保障数据不外泄



精简部署，快速扩容

快速部署交付

应用商店模式，1台服务器支持超过100并发用户

Remote PC 模式，让用户直接访问自己的企业PC

支持企业数据中心部署和任意公有云部署



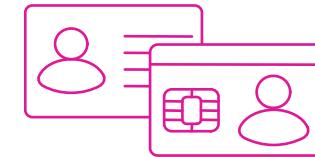
高质量用户体验

高质量用使用体验

支持所有员工PC和平板和智能手机

和原来在办公室同样界面和环境

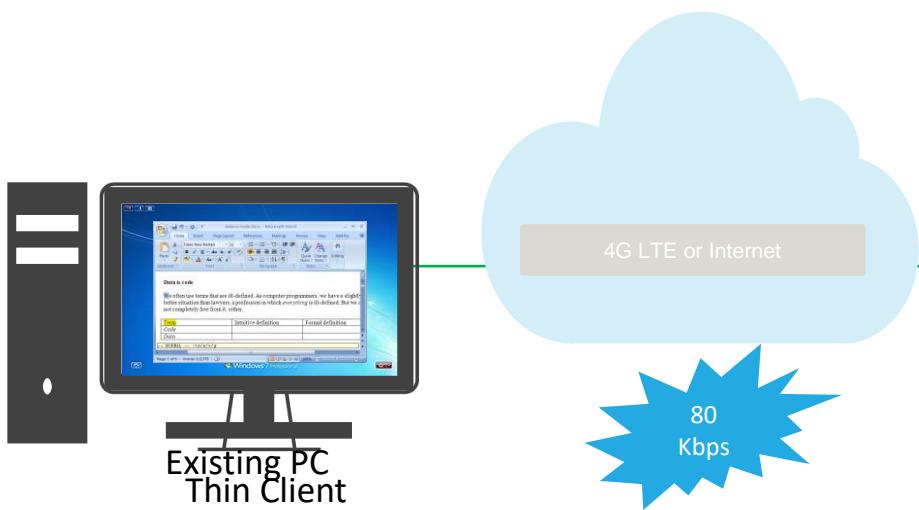
浏览器访问，员工无需任何额安裝配置



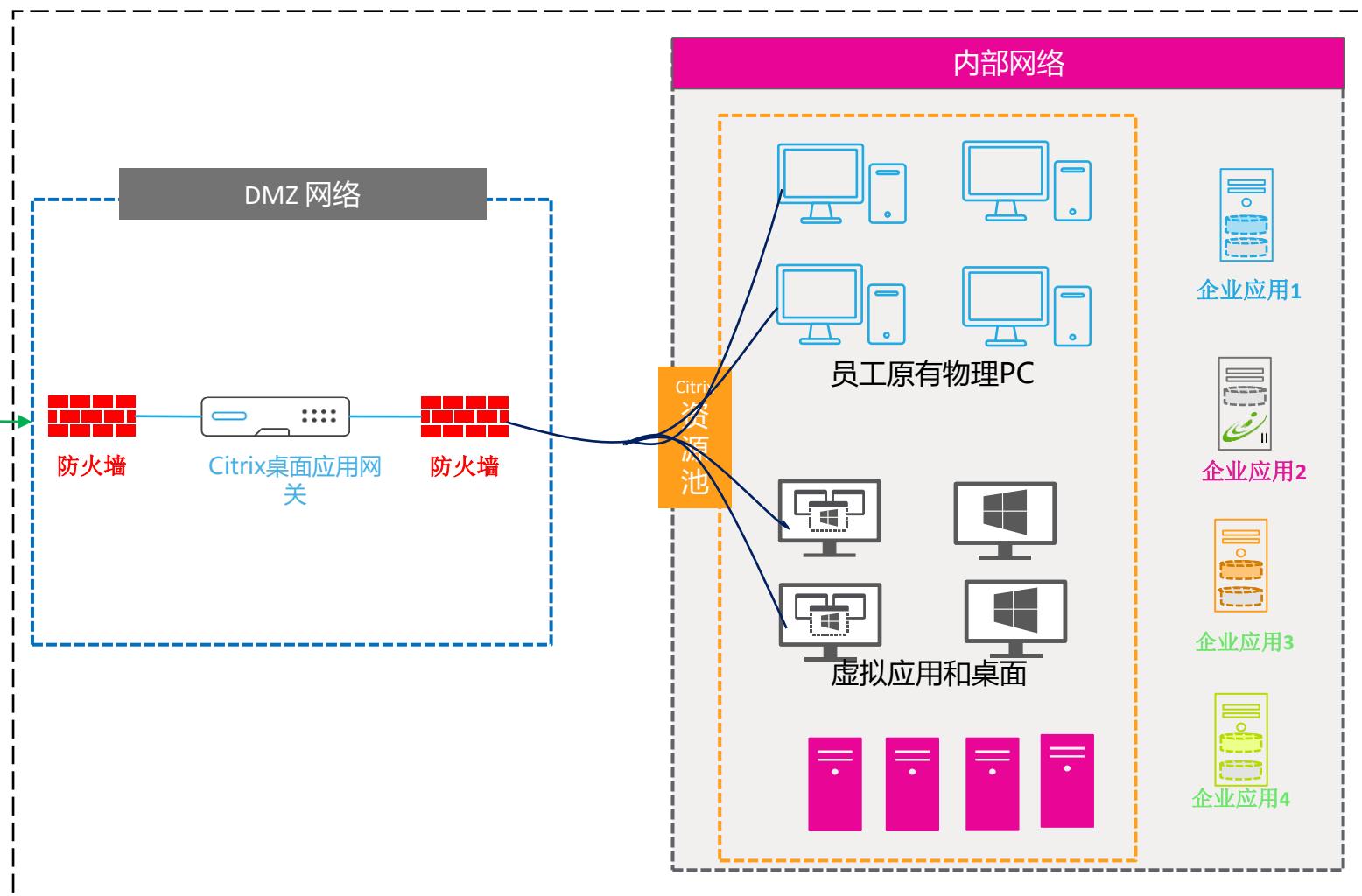
远程访问居家办公



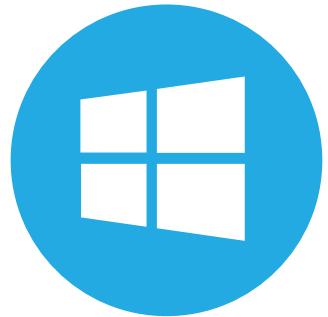
Citrix Workspace 远程访问架构



- 接近本地访问的体验
- 降低带宽需求
- 减少运维人员工作量
- 应用访问体验和网络质量可视化



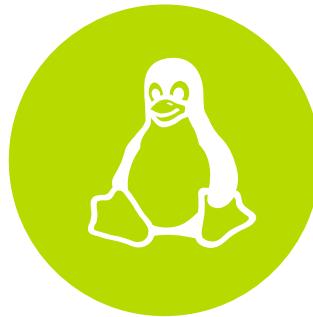
同时使用所有企业应用



传统Windows应用



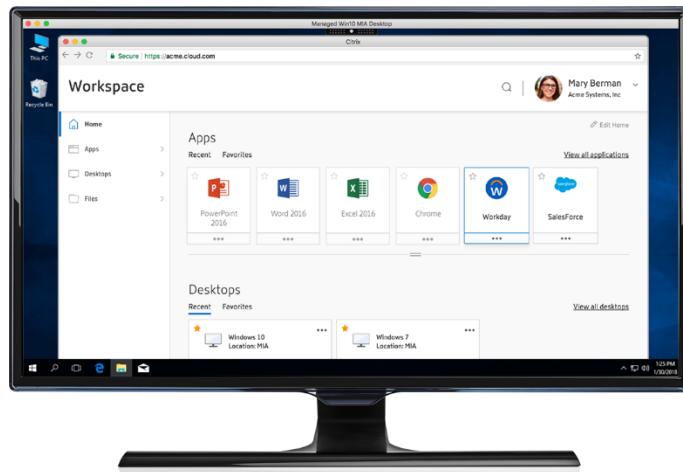
虚拟桌面



Linux应用



Web & SaaS应用



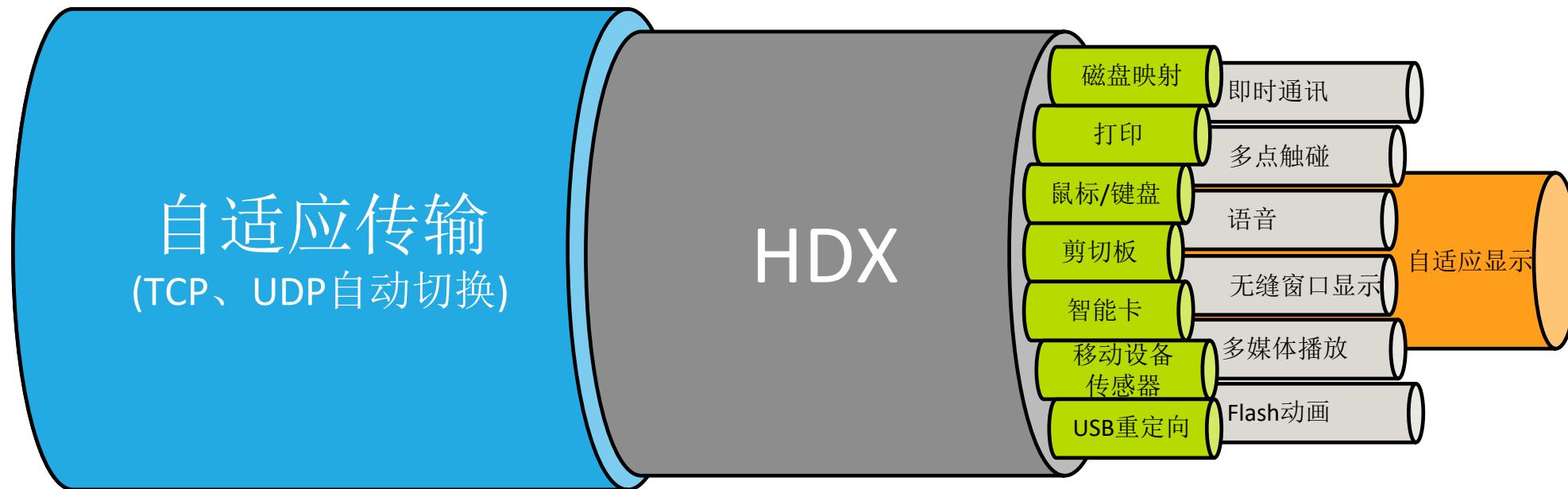
远程PC



应用不再受限于网络

Any Network

演变了20多年的HDX协议：带宽 $> 50\text{Kbps}$, 延迟 $< 300\text{ms}$ 条件下均可获得良好的应用操作体验



Citrix workspace 提供全面的远程访问服务

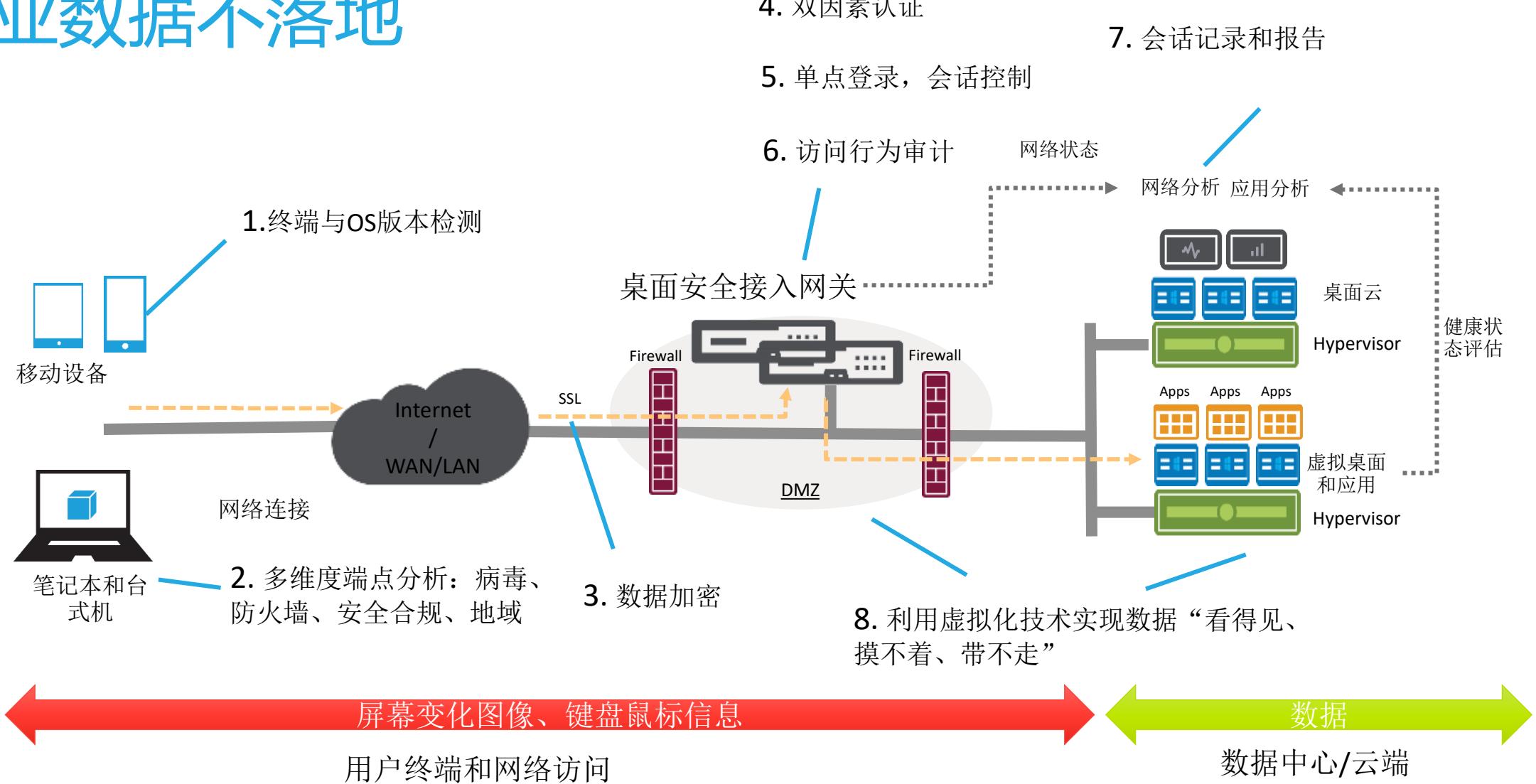
Citrix Workspace 全栈远程访问服务



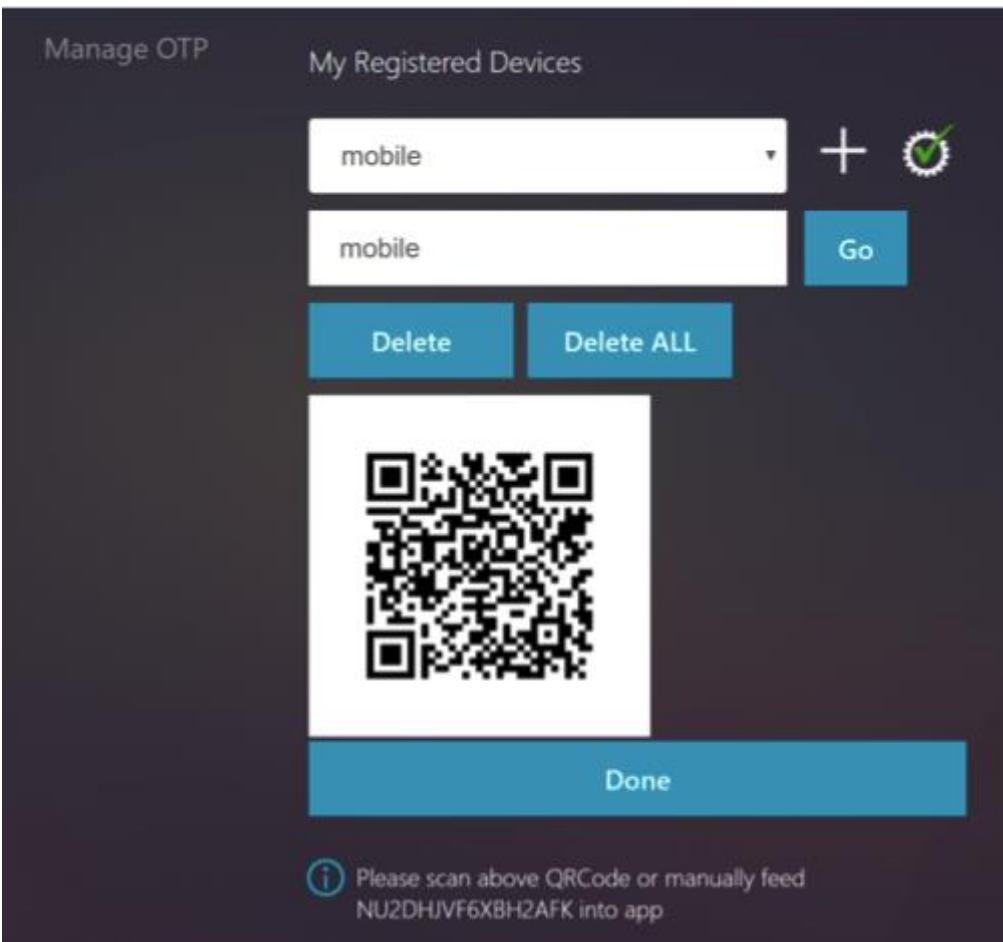
保障企业数据安全



企业数据不落地

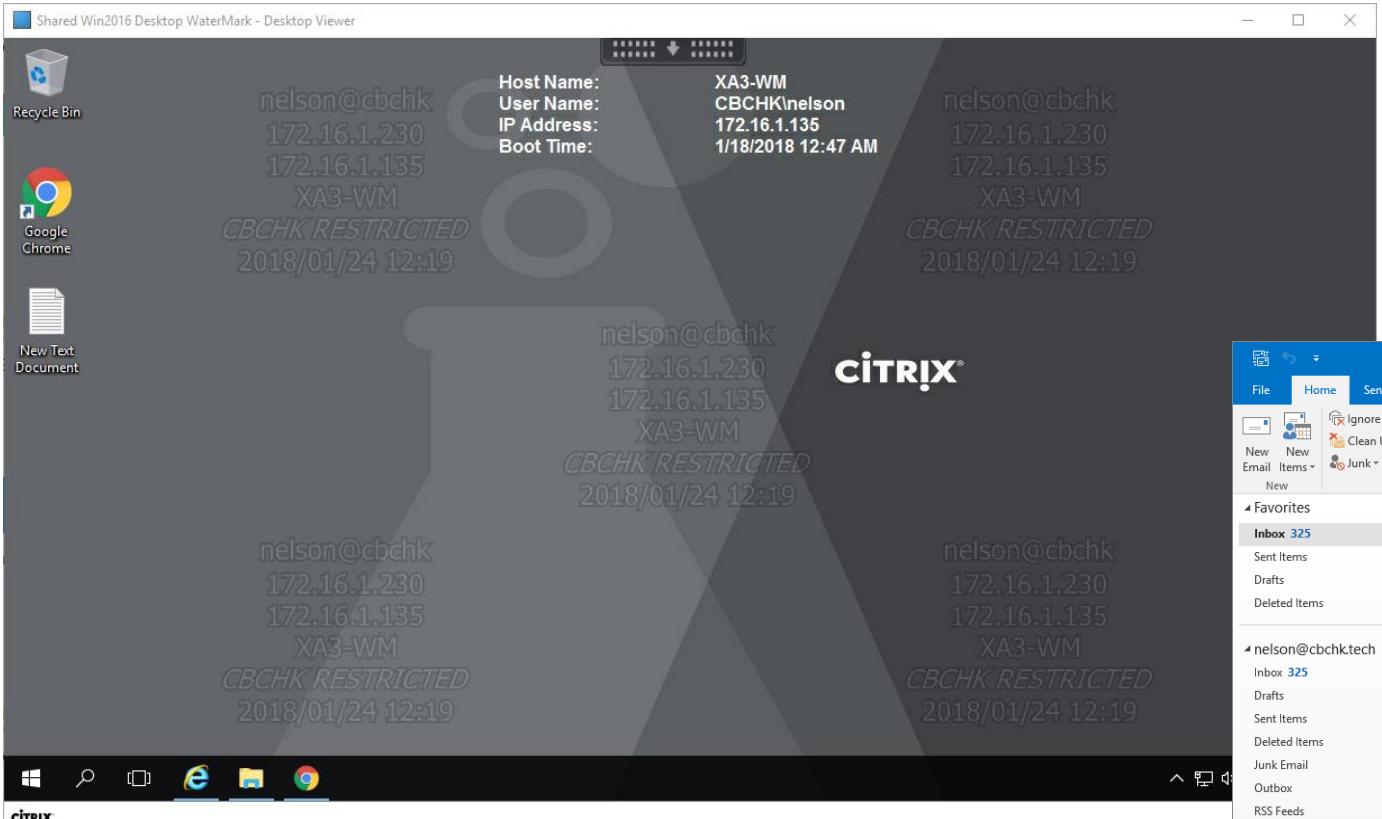


双因素认证保障员工身份安全



The image illustrates a two-step verification process. On the left, a mobile phone displays the 'Citrix SSO' app with a token '902677' and a 'VPN Connections' tab. On the right, a desktop browser window shows a 'Please log on' screen for 'NetScaler with Unified Gateway'. It includes fields for 'User name' (user1@training.lab), 'Password', and 'Passcode', along with a 'Submit' button.

虚拟应用和桌面水印



Watermark is injected from server side

A screenshot of the Microsoft Outlook application. The inbox shows several emails from "Spiceworks" and "End-User Computing Digest" with subject lines like "Offline Alert is still active for mail.cbchk.tech" and "How to quantify VDI user experience". A callout bubble points from the text "Watermark is injected from server side" to the watermark alert in the inbox. The right pane of the Outlook window displays a news article titled "How to quantify VDI user experience" by Eddie Lockhart.

- Client IP Address
- Connection Time
- Logon User Name
- VDA IP/Hostname
- Custom String
- Opacity Level

A screenshot of a news article from GeekOut 365. The headline reads "How to quantify VDI user experience". The article discusses steps to measure virtual desktop user experience, mentioning factors like latency and image quality. It includes a quote from Eddie Lockhart and a "CHECK IT OUT!" button.

虚拟应用和桌面屏幕录像

The image shows two screenshots of the Citrix Desktop Viewer interface. The left screenshot displays the 'Session Recording Player' window, which includes a menu bar, search tools, workspace management, a 'Now Playing' list, events and bookmarks, player controls, and a seek slider. A callout box highlights the search results area with the text: "Screen Playback can JUICE the review, idle screens are highlighted to save time". The right screenshot shows a recorded session playback of a Windows desktop environment, with a callout box stating: "Just syslog is too RAW for audit". Both screenshots show a 'Session Recording' dialog box at the top.

Session Recording Player menu bar

Search tools

Workspace

Now Playing list

Events and Bookmarks list

Player controls

Seek slider

Highlighted idle period

Session Recording

Your activity with one or more of the programs you recently started is being recorded. If you object to this condition, close the programs.

OK

Session Recording

Your activity with one or more of the programs you recently started is being recorded. If you object to this condition, close the programs.

OK

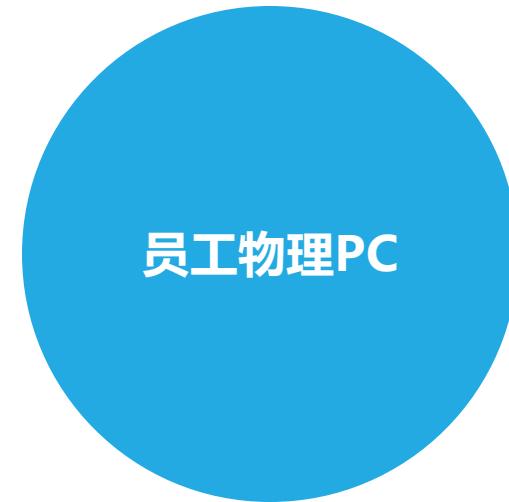
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default CLI CMD_EXECUTED 214862 0 : User nsroot - nsroot ***** - Status "Success"
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default CLI CMD_EXECUTED 214863 0 : User nsroot - Status "Success"
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default SSLVPN HTTPREQUEST 2203 0 : Context webmas...
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default SSLVPN TCPCONNSTAT 2204 0 : Context webmas...
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default SSLVPN TCPCONNSTAT 214865 0 : Context webm...
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default SSLVPN TCPCONNSTAT 214866 0 : Context webm...
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default API CMD_EXECUTED 214866 0 : User nsroot - s license" - Status "Success"
Jun 8 13:35:57 <local0.info> 172.19.19.11 06/08/2017:05:35:57 GMT MPX10500 0-PPE-5 : default API CMD_EXECUTED 214867 0 : User nsroot - luster node" - Status "Success"
Jun 8 13:35:58 <local0.info> 172.19.19.11 06/08/2017:05:35:58 GMT MPX10500 0-PPE-5 : default API CMD_EXECUTED 214868 0 : User nsroot - luster instance" - Status "Success"

Just syslog is too RAW for audit

精简部署，快速扩容上线

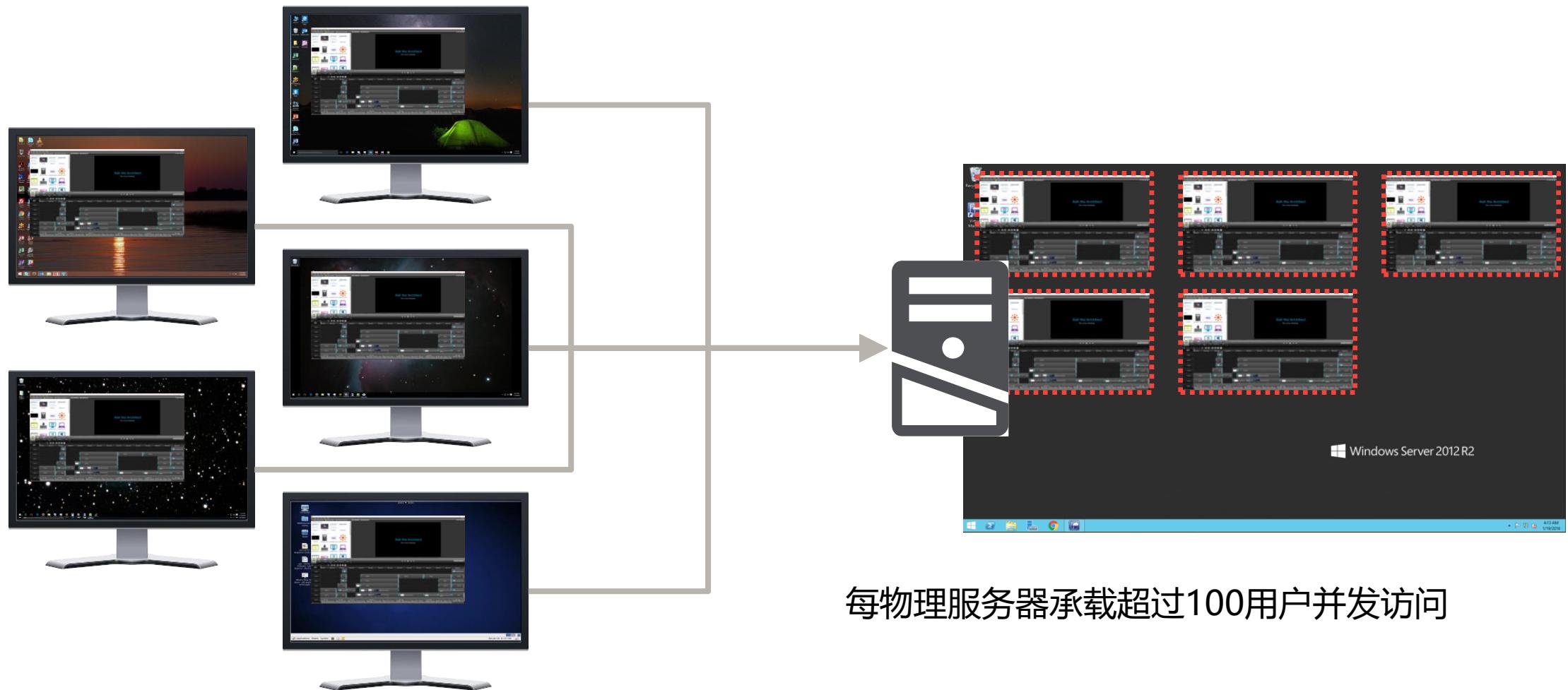


三种资源交付模式

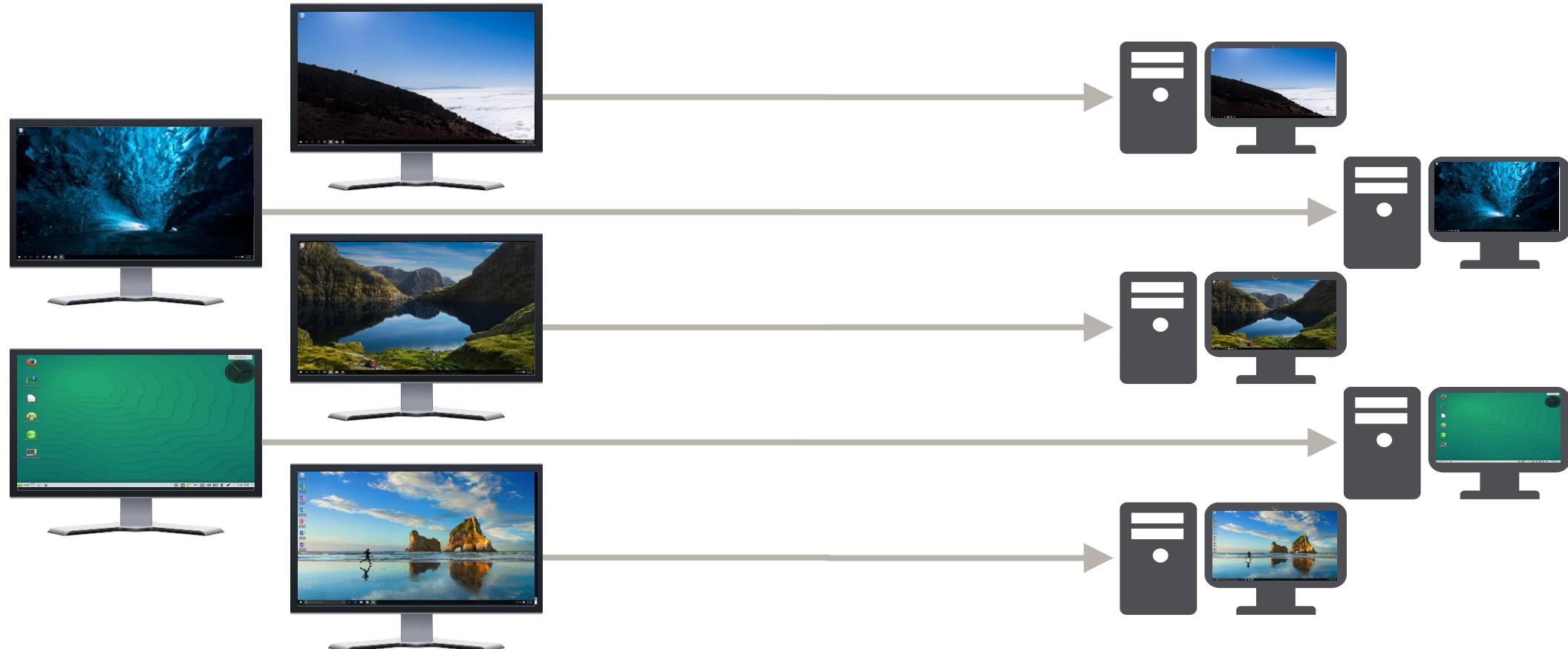


可选择发布虚拟应用，虚拟桌面或者将员工物理PC 发布给远程或和居家用户使用

虚拟应用交付模式

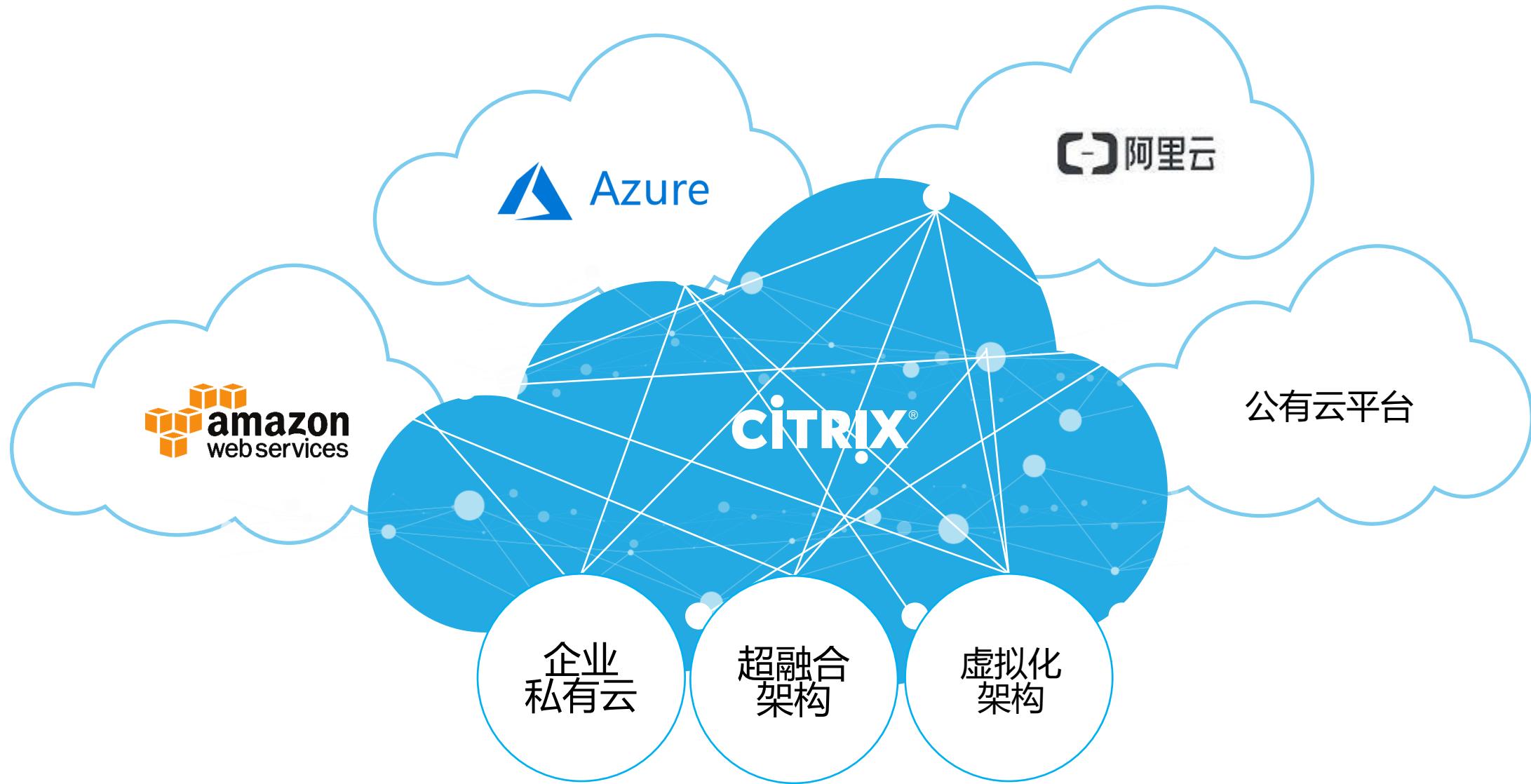


物理PC交付模式



员工通过Citrix交付架构访问他们的原有物理PC
无需额外的服务器承载资源

多云部署模式



高质量用户体验

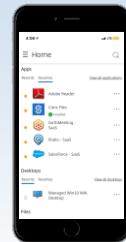


Citrix Workspace app

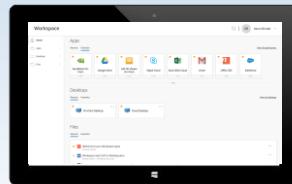
点击即可访问所有办公应用



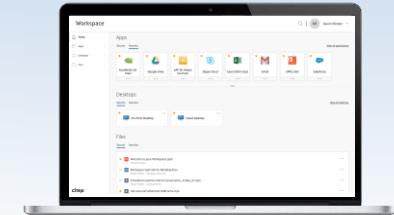
智能手机



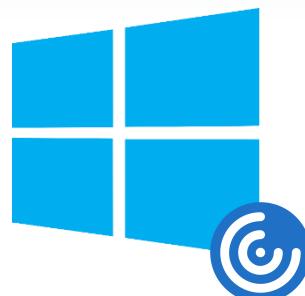
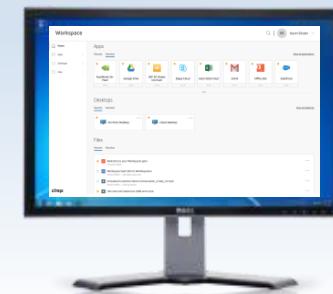
平板电脑



笔记本电脑

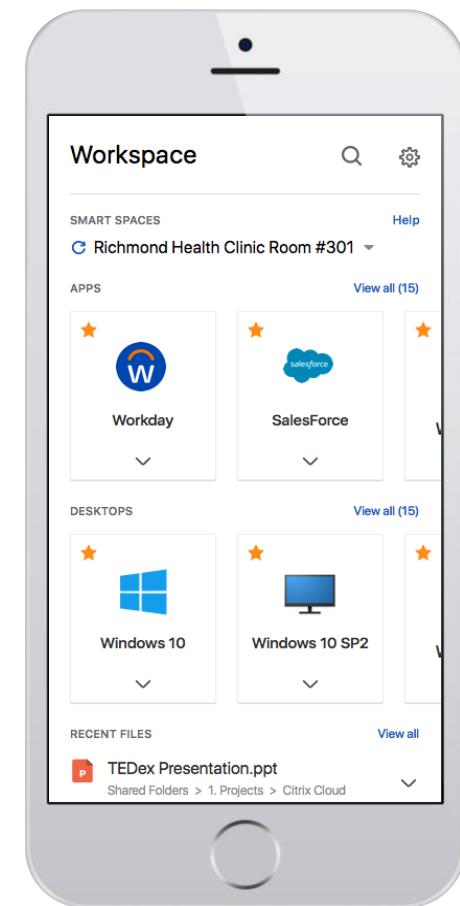
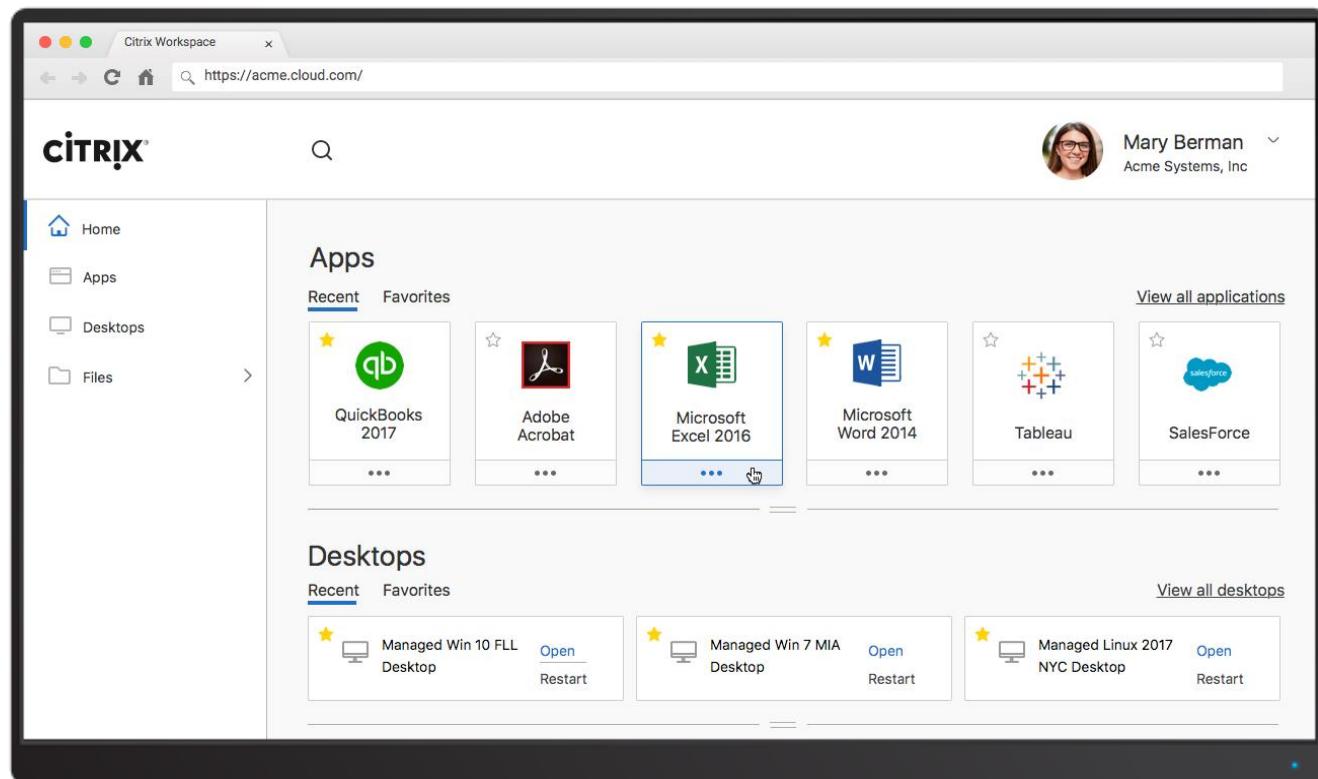


PC



CITRIX

居家办公统一的用户体验



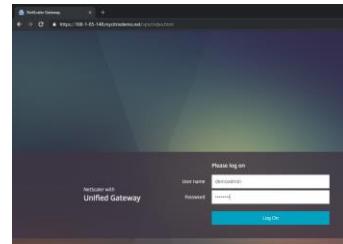
使用浏览器直接访问办公环境

三步打开办公应用和桌面

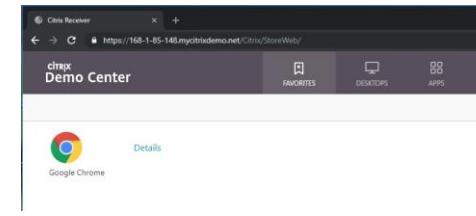
1, 打开本地浏览器访问企业办公网站



用户身份登陆
(双因素认证)



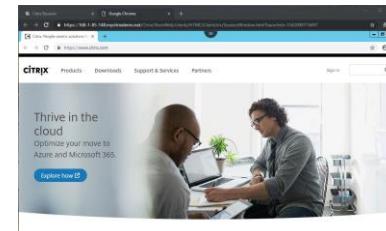
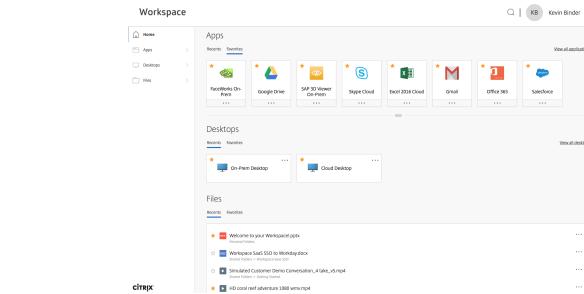
2, 点击发布给员工的虚拟应用或琢磨



3, 应用和桌面会自动在浏览器窗口中打开

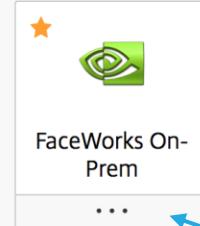


无需任何插件，员工也无需返回office进行初始化

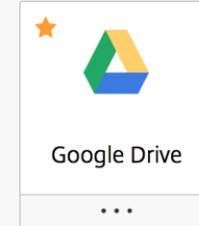


Apps

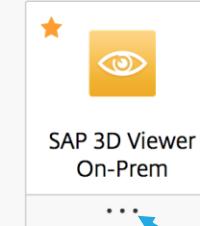
Recents Favorites

[View all applications](#)

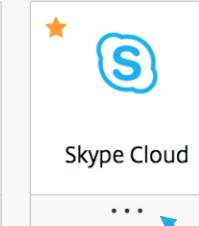
FaceWorks On-Prem



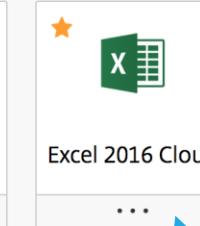
Google Drive



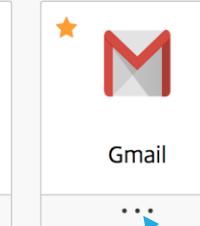
SAP 3D Viewer On-Prem



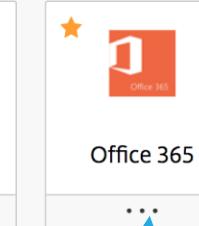
Skype Cloud



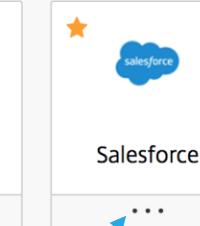
Excel 2016 Cloud



Gmail



Office 365



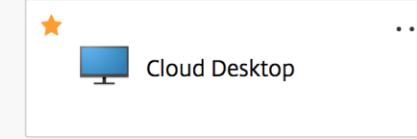
Salesforce

Desktops

Recents Favorites

[View all desktops](#)

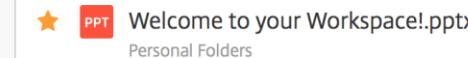
On-Prem Desktop



Cloud Desktop

Files

Recents Favorites



Personal Folders



Shared Folders > Workspace SaaS SSO



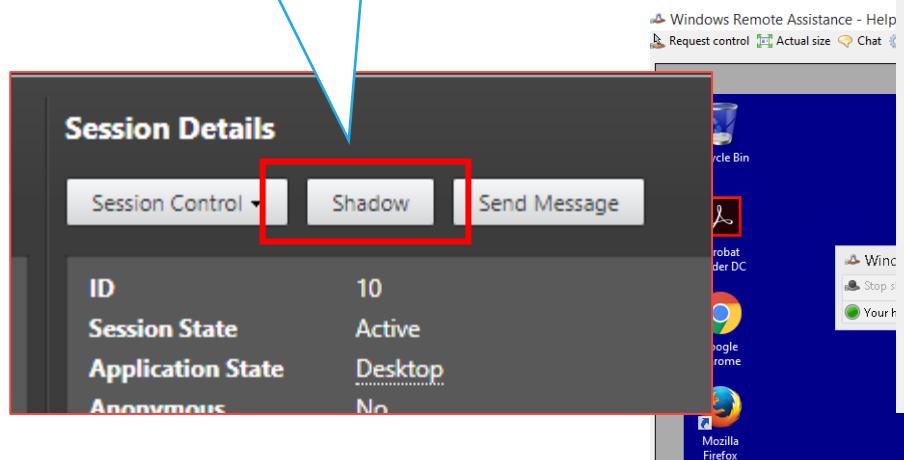
Shared Folders > Getting Started



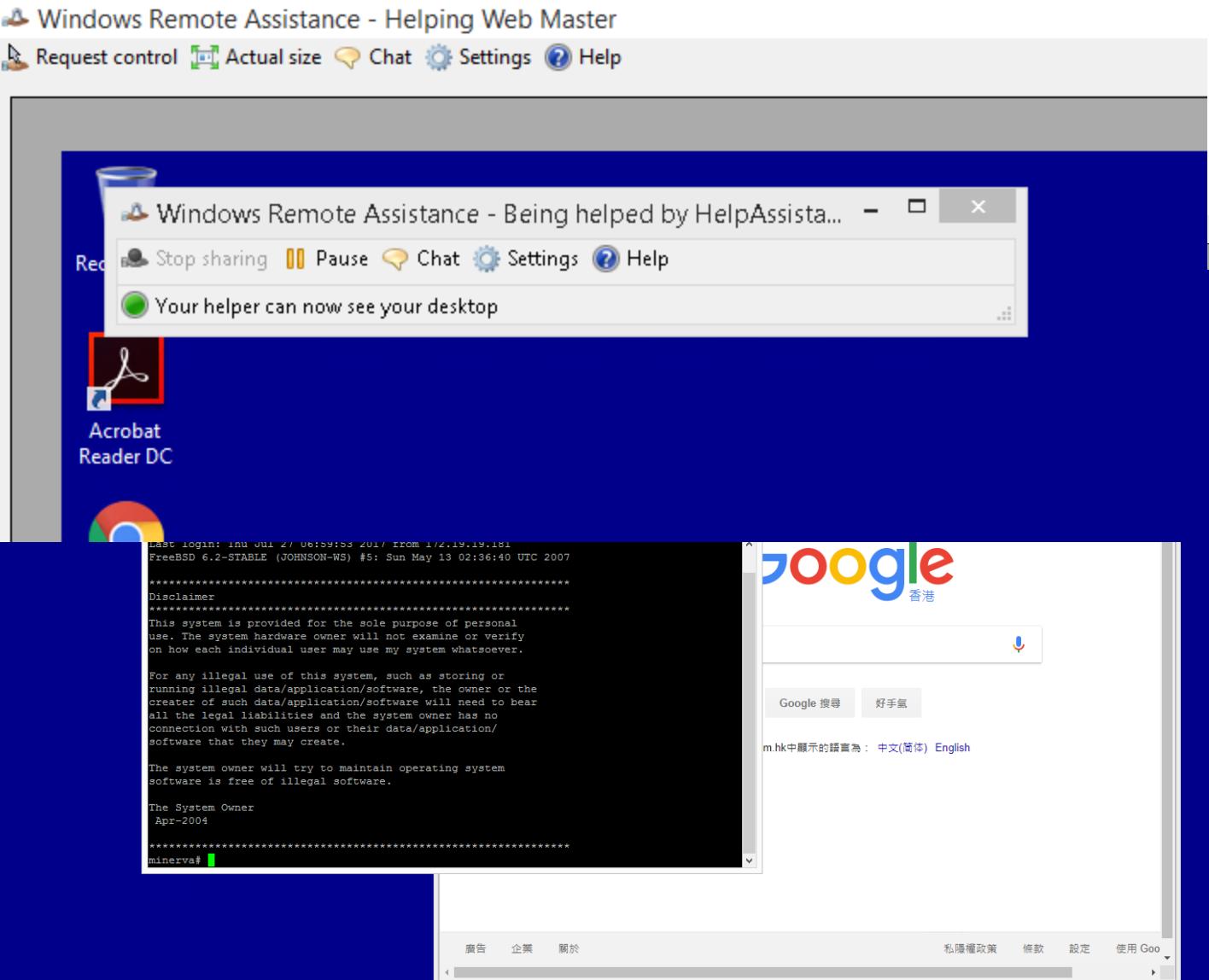
**Cloud MS Office Apps
Cloud MS Office Apps
(existing XenApp farm)
Cloud Desktop
On-prem Desktop**

管理员远程协助

Launch in
Citrix Director



Operators can have
same screen with
users



远程监控和维护

Director | CBCHK

Web Master Connected | XenApp (CBCHK\XA01: 10)

User

User	Channels
nelson	2.86 Mbps
user3	1.91 Mbps
denni	976.56 Kbps
ddmd	0 bps
user4	Remote Screen
admin	Audio
urien	

Channels

Name
Remote Screen
Audio
Pure ICA
PTR Mapping (spooling)
Seamless Screen
Smart Card
Client Drive
Transparent User
Control Virtual
End User Monitoring
License Management
Clipboard
DirectX Graphics
MultiMedia Redirection
USB Redirection

+ Web Insight
- HDX Insight

- Users
- Applications
- Desktops
- Gateways
- Licenses

+ Gateway Insight
+ Security Insight

Information

Data displayed on the dashboard depends on the versions and licenses used.

Learn More

Session ID: ab4afa11-93d6-4d87-ae5b-e9d213cc44be

The following figure shows the connection between the client and the server in this active session. Click the icons to see more details.

WAN latency: 174 ms
DC latency: 1 ms
Client Side Device Latency: 0.0 ms
Server Side Device Latency: 0.0 ms
Host Delay: 15 ms

Current Sessions

Session ID	Device	IP Address	Latency
1fae...2d6b8a	Client	103.14.252.249	77.00 ms
183a...9aec9a	Switch 1	172.19.19.51	0.00 ms
d14c...c5b57a	Switch 2	172.19.19.55	1.00 ms
b743...9fc778	Server	172.19.19.22	

Terminated Sessions

Session ID	Device	IP Address	Latency
6c4c...09e5a8	netscaler	172.19.19.55	0.00 ms
43c9...f4867e	Switch 1	172.19.19.51	1.00 ms
84e9...ab5505	Switch 2	172.19.19.55	0.00 ms
6513...e6946e	Server	172.19.19.22	1.00 ms

172.19.19.55

Name	IP Address	WAN latency	DC latency	State	Version	License
netscaler	172.19.19.55	0.00 ms	1.00 ms	Green	NetScaler NS11.0; Build 6931.n	Standard

Hop-wise DC latency for Session: a720dbf6-e053-4ee2-b0a2-9f385624c025

Hop count	Name	IP Address	DC latency
2	netscaler	172.19.19.55	1.00 ms
1	netscaler	172.19.19.51	0.00 ms

用户案例





某医药企业的营销应用即服务

• 挑战与需求

- 旗下两家销售子公司，约10000名营销人员分部在全国600多家办事处
- 办事处通过各种互联网连接总部的营销系统、大数据、BPM、查询平台
- 办事处的电脑同时连接后台业务系统和互联网，如何限制数据外发
- 后台业务系统的更新，会引发各办事处电脑前端软件升级，繁琐不堪
- 文档安全、应用安全、接入安全、终端安全环环相扣，信息中心应接不暇

• 解决方案：Citrix CVAD + Citrix ADC 构筑2000并发用户的应用即服务平台

• 实施效果

- 以应用即服务的方式搭建 “[云+](#)” 平台，集中发布营销系统
- 文档安全、应用安全、接入安全得到统一
- 个人数据和企业数据有效分离，从本质上杜绝数据外发
- 水印技术有效威慑拍照外发的行为，实现事后追溯
- 终端安全不影响后台营销系统的安全，阻隔终端的安全风险向后台蔓延
- 通过13台服务器承载2000并发用户访问，每服务器的用户密度超过150
- 架构开放：应用发布、底层虚拟化、服务器、存储、网络均为不同厂商

应用商店案例

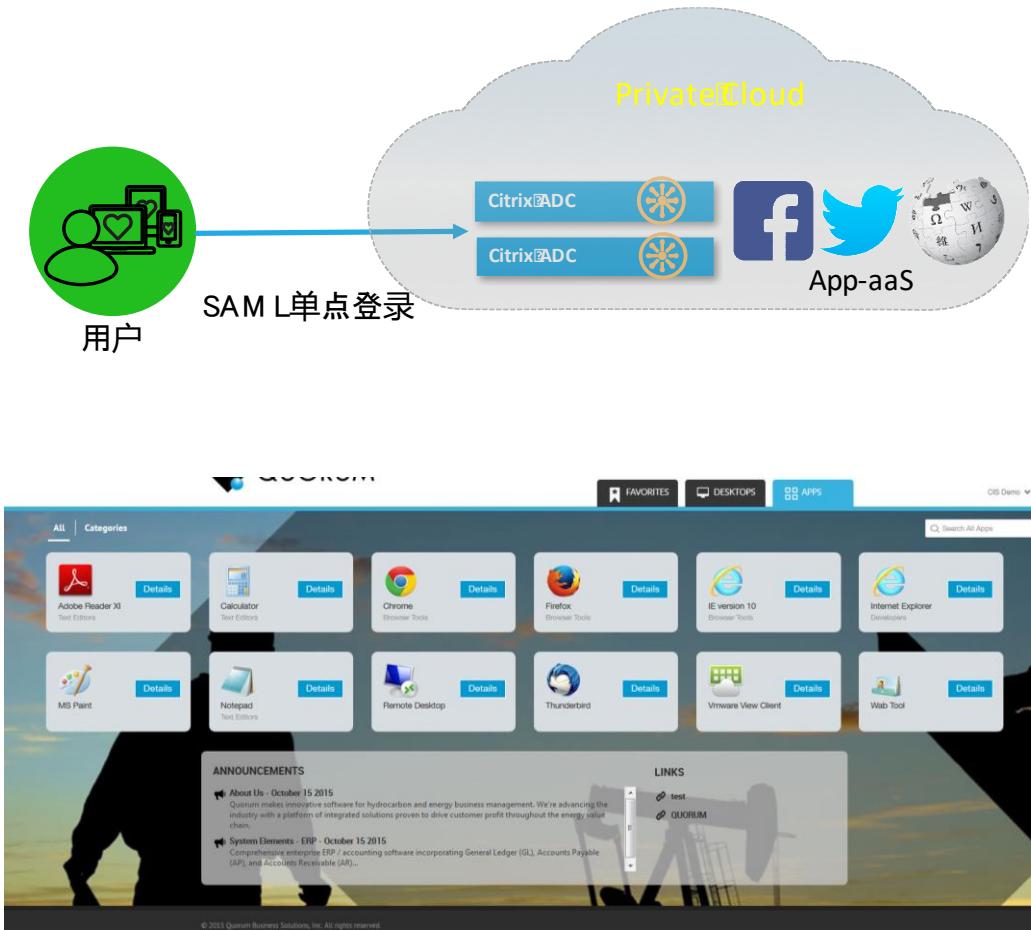
某互联网大鳄

背景：员工近50%设备是苹果电脑，50%设备是Windows电脑，应用安装和分发一直是一个头痛的问题。此外，每年IT需要购置几千万的软件许可证，光Adobe产品就有300多万，而软件安装下去之后用户的使用率一直是个谜，缺乏有效的审计和统计的途径。

方案：建立应用商店中心，为用户提供在线的应用访问，可以支持任何设备、任何系统、任何网络使用应用商店中的应用。在使用报表中，可以清晰的反馈出应用软件使用频率和并发的数量，为采购该软件提供数据支撑。

技术：基于Citrix Virtual App (CVA) 技术将软件改造为在线使用方式，用户无需安装应用软件就可以使用即Application As A Service(AaaS模式)，借助中的Director 功能把应用、用户、性能使用的数据提供报表反馈给IT部门。CVA通过定制化方案完全融入为企业应用商店的一部分。

实现：架设在企业的私有云中，使用Citrix ADC能够完成Citrix Virtual App和CAS (SAML)认证的对接，并实现用户访问虚拟应用中心的安全隔离。同时，CVA实现了和企业文档系统的对接，满足了用户线上 (AaaS) 、线下 (本机) 的文档统一。



Citrix 保障企业办公不间断

- 居家办公，远程访问

任意时间，任意地点，使用任意企业应用

不依赖网络，使用任意Internet和4G

- 数据安全

无需VPN，数据不落地。身份，水印，录像安全加固

访问控制，端到端安全保障

- 快速部署

快速部署，节省资源。

应用商店+物理PC访问模式，任意私有云公有云

- 高质量用户体验

浏览器即可访问；无需回公司初始化

支持任意员工自有设备，一致体验无需培训



CITRIX®