## Microsoft Remote Desktop

Remote Desktop Services accelerates and extends virtual desktop and application deployments to any device, improving remote worker efficiency, while helping to keep critical intellectual property secure and simplify regulatory compliance.

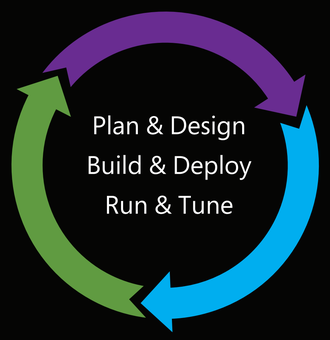
Remote Desktop Services enables virtual desktop infrastructure (VDI) as well as session-based desktops and applications, allowing users to work anywhere.

### 3 reasons to choose Microsoft Remote Desktop:

**RUN WINDOWS APPS ANYWHERE**
Access corporate resources from any Windows, Apple, or Android computer, tablet, or phone.

**DELIVER YOUR APP AS-IS**
No re-writing required for your Windows apps. Combine the Windows app experience with powerful Remote Desktop Services capabilities so that your apps are delivered from the cloud or on-premises as-is, quickly and simply.

**CENTRALIZE CONTROL**
Centrally manage and maintain your deployment using powerful tools and automation scripts. Apps and data stay in your control, helping to secure your resources and reduce the risk from lost and compromised devices.




Microsoft

# PLAN AND DESIGN

A highly scalable Remote Desktop deployment requires the use of specific patterns and practices. Designing for optimal performance and scale-out is key. Use the scenarios below to help you envision, architect, and continually refine your deployment.

### VDI VS. SESSION-BASED

Deploy session hosts for a more lightweight and cost effective model when requirements for user resources are lower. Take advantage of increased application compatibility and a familiar Windows Client OS experience with a VDI deployment.

### PERSONAL OR POOLED DESKTOPS

Personal desktops give end users increased flexibility of administrative access, while pooled desktops lower maintenance requirements and costs. Provision personal and pooled desktops in both VDI and session-based deployments.

### DEPLOY ANYWHERE

Deploy on-premises, in the cloud, or a hybrid of the two. Modify your deployment as your business needs change.

### CATER TO DIFFERENT KINDS OF USERS

Scale your deployment depending on the expected need of each type of user.

For example, users may carry out data entry on lightweight apps, manipulate large datasets with productivity apps like Office, or work with heavy-duty engineering or graphics apps.

### ACCESS FROM ANYWHERE

End users can connect to internal network resources securely from outside the corporate firewall through RDmi Gateway.

### HIGH AVAILABILITY

Failures and throttling are unavoidable in large-scale systems. It's simple to setup Remote Desktop infrastructure roles to support high availability and allow end users to connect seamlessly, every time.

### SECURE AUTHENTICATION

Leverage the power of Azure Active Directory with Secure Authentication to enforce high security protection of your business resources.

### SECURE DATA STORAGE

Store business resources, user personalization data and settings securely on-premises or in Azure. Remote App and Desktop Hosts use AD authentication and empower users with the resources they need in a personalized environment, securely.

### SECURE ENVIRONMENT

New architecture uses reverse connect functionality from the Remote App and Desktop Hosts to the infrastructure roles. This eliminates the need for opening any inbound IP ports to the Remote App and Desktop Hosts environments, thereby increasing the isolation and security for your virtual workspace environment.

### ENABLE HIGH-END GRAPHICS REMOTING

Improve users' graphics performance in a remote session by attaching GPUs to your Remote App and Desktop Hosts servers. Directly map a GPU to a VM using Discrete Device Assignment.

### CONNECT FROM ANY DEVICE

Access corporate resources from any Windows, Apple, or Android computer, tablet, or phone. Enable users to easily see their available desktops and applications from any device through RD Web Feed.

### CHOOSE HOW YOU PAY

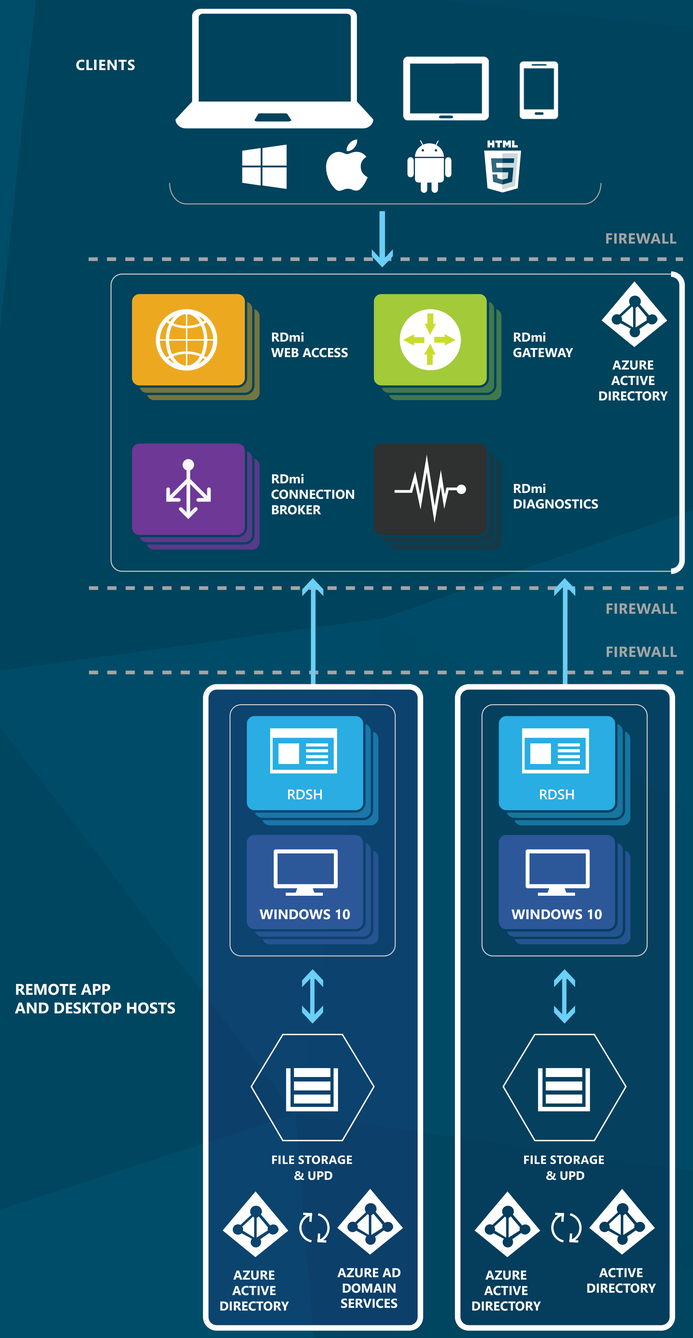
PER DEVICE PER USER

Choose your licensing based on what makes sense for your company. License per user to enable users to remote on any of their devices in a BYOD scenario. License per device if users share the same devices. If you are a service provider or ISV, choose the per user SALs license for a flexible, pay-as-you-go model.

# BUILD AND DEPLOY

Remote Desktop deployments are easily scaled. You can increase and decrease Remote Desktop Web Access, Gateway, Connection Broker and Session Host servers at will. You can use Remote Desktop Connection Broker to distribute workloads. Active Directory based authentication provides a highly secure environment.

Remote Desktop Clients enable access from any Windows, Apple, or Android computer, tablet, or phone, as shown below.




# RUN AND TUNE

Tuning your deployment takes time and requires instrumentation and monitoring. Use the processes below to refine your Remote Desktop deployment, keep it running and enable scaling out (and in) as needed.

It's a good practice to continually assess the metrics and balance against running costs.

### MANAGEMENT & MONITORING

Use the RDmi Diagnostics role to monitor RDS modern infrastructure deployments for potential bottlenecks. Troubleshoot your infrastructure with the built-in diagnostics service for connection and administration activities.

**PROJECT HONOLULU:** A graphical RDmi management solution, built as an extension on Project Honolulu, will ease management of RDmi deployments on-premises and on the cloud.

**POWERSHELL & REST API:** Use the RDmi PowerShell module, or the REST APIs, to delegate administrative capabilities and manage deployments with tens of thousands of concurrent users.

### SCALE: BIGGER, BETTER, FASTER

With visibility into the deployment, you can control scale with more precision. Easily add or remove Remote App and Desktop Host servers based on scale needs.

Remote Desktop deployments that are built on Azure can make use of Azure services, like Azure SQL, to scale automatically on demand.

### AUTOMATION: SCRIPT FOR SUCCESS

Maintaining a running, highly scaled application involves repeating operations on a regular basis. Use RDmi Powershell cmdlets and WMI providers to develop scripts that can be run on multiple deployments when needed. Run Best Practice Analyzer (BPA) rules for Remote Desktop Services on your deployments to tune your deployments.

### LOAD TESTING: AVOID SURPRISES

Load test the deployment with both stress tests and simulation of real-life usage. Vary the load size to avoid surprises! Ensure that responsiveness meets user requirements, and that the entire system is resilient. Create load tests with simulation tools, like LoginVSI, that check your deployment's ability to meet the users' needs.

# Desktop Virtualization using Remote Desktop modern infrastructure

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