Real-time file encryption from Active Cypher for Windows Virtual Desktop on Azure

File protection for Windows Virtual Desktop running on Azure

Active Cypher is a Windows Virtual Desktop value added services provider that equips IT with encryption technology to help protect the enterprise from breaches and data loss. With Active Cypher, innovative encryption technology supports the overall file protection strategy to run Windows Virtual Desktop on Azure.

Windows Virtual Desktop is changing the way virtual desktops are provided by delivering multi-session Windows 10 directly from Azure. Additionally, Windows Virtual Desktop enables IT to provide Windows 7 virtual desktop deployments for users as well as the option to move existing Remote Desktop Services and Windows Server deployments to Azure, all managed from a unified experience on Azure.
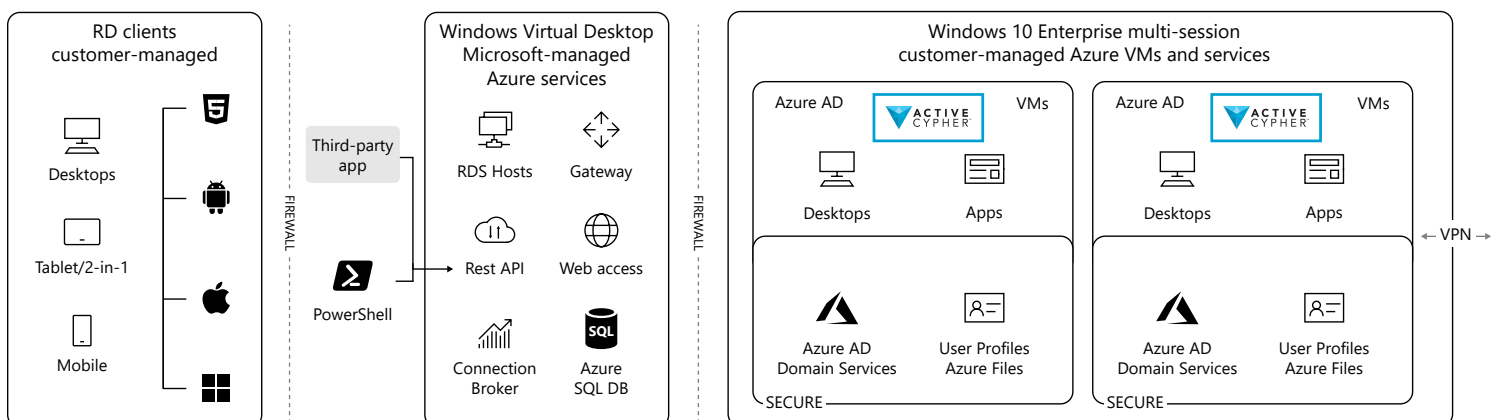
When used with Windows Virtual Desktop, Active Cypher provides additional capabilities to enable accessibility and mobility of user data while preventing inadvertent data loss. With Active Cypher, existing group security policies and permissions in Azure Information Protection can be leveraged to encrypt user files while using Windows Virtual Desktop.

Active Cypher works inside of Azure Information Protection to encrypt the files within established security groups in Active Directory. Active Cypher's encryption software deploys in minutes and is installed directly to the network. The software is invisible to users, and there's no admin functions, consoles, or apps to manage. Active Cypher operates silently behind the scenes, encrypting and protecting every file on file servers, transparently decrypting and re-encrypting files automatically.

> "Active Cypher provides encryption technology that helps protect files in a virtual environment. It's a strong solution for customers implementing Windows Virtual Desktop."
>
> **Scott Manchester**
> **Group Program Manager,**
> **Windows Virtual Desktop**
> **Microsoft**

Integrated file security with Active Cypher and Windows Virtual Desktop

How it works

Active Cypher is deeply integrated with Active Directory and Azure. By leveraging the Azure environment and services like Azure Information Protection, Active Cypher works seamlessly in the background to protect files. Active Cypher applies the user policies and security groups set up by IT and uses its rules engine, connected via an API, to assess risk threats and ensure the appropriate encryption and decryption of files.

Active Cypher

Marginalize breaches

Lock down files with patented ACS protection, even when hackers try to strike.

Optimize budget

Prevent overspending on excessive tools that still leave gaps to fill.

Support compliance

Help ensure data compliance measures are met without adding burden to IT or users.

The benefits of using Active Cypher for Windows Virtual Desktop

Optimized costs

By focusing on protection and permissions at the Active Directory group level, Active Cypher protects files without the need to provision any additional tools. Active Cypher's end-to-end file encryption protects files at all times, regardless of their location. This helps ensure that IT organizations are not overspending or under-investing in file protection in virtualized environments.

Improved user adoption

Deeply integrated with Microsoft Active Directory and Azure, Active Cypher provides support for every stage of transition to Windows Virtual Desktop. This provides the expediency and confidence to ensure protection of files before, during, and after cloud adoption.

File data loss prevention

Active Cypher uses patented security algorithms to help prevent mobile and desktop workstations in Windows Virtual Desktop environments from absconding file contents through copy-and-paste and other screen capture methods. This enables users to transparently access their files.

Maintained compliance

Active Cypher can be utilized across a variety of different uses with compliance certifications for many industries. By keeping detailed information on file location and accessibility, Active Cypher streamlines compliance adherence and auditing. Active Cypher keeps track of the necessary compliance requirements and can also be applied in security Smart Contracts, and distributed ledger (Blockchain) operations.

Virtualized file protection

Using non-standard implementation of AES-256 encryption, files are always protected and only available for viewing and editing by authorized users. Active Cypher keeps track of files across devices, locations, and users, and ensures security policies are enforced in Windows Virtual Desktop. Real-time encryption of files helps ensure that user access is properly authorized and file compromise is prevented.

Learn more about how Microsoft and Active Cypher work together to protect user files

"Active Cypher runs in our DevOps environment where we run a demonstration for user-friendly email, Skype, and network file system encryption for our Federal clients. As a Veteran-owned advisor for strategy, technology, and compliance in Northern Virginia we know the challenges that exist for large organizations when it comes to adopting enterprise encryption. The combination of Windows Virtual Desktop and Active Cypher is a tremendous value proposition for our clients that have 50,000+ end-of-life virtual desktops. We provide training, implementation, and Tier 2 support for Active Cypher to further compliance initiatives related but not limited to ICD-503, NIST, TBM, CPIC, the President's Management Agenda, HIPAA, FDA 510(k), and FITARA."
- Douglas Dailey, USAF (retired)

About Windows Virtual Desktop

Windows Virtual Desktop offers the best virtual desktop experience delivered on Azure. Windows Virtual Desktop enables organizations to deliver a virtual desktop experience and remote apps to any device. Microsoft 365 and Azure together provide users with the only multi-session Windows 10 experience — with exceptional scale and reduced IT costs.

For more information, visit
https://azure.microsoft.com/en-us/services/virtual-desktop/.

About Active Cypher

Active Cypher provides the encryption technology that protects company files against the inevitable breach and inadvertent data loss that confronts every organization. Formed in 2015, Active Cypher was born from the need of file protection measures to account for different user permissions, devices, and locations, Utilizing innovation in AES-256 encryption standards, Active Cypher helps to marginalize breaches and protect files wherever they are.

For more information, visit www.activecypher.com.