Dell Technologies Validated Designs for Virtual Desktop Infrastructure

Geographic Information Systems with Esri ArcGIS Pro on Dell Technologies VDI

- Provide secure geographic data to the users who need it

- Deliver predictable performance to users regardless of their device or location

- Reduce the cost and complexity of managing your endpoints

- Take advantage of the intrinsic security of the VDI platform for your most sensitive data and applications

The challenges of GIS Software

In recent years, IT organizations across industries have been challenged to support a more distributed and mobile workforce with employees working from a variety of remote and in office locations around the globe. Going forward, IT can expert users to move regularly between work locations, alternating time spent remote and in the office. IT needs to embrace solutions to address the needs of an evolving workforce – regardless of where they work and without sacrificing performance and productivity.

Virtual Desktop Infrastructure (VDI) is a flexible solution for providing access to applications and data from nearly anywhere and on any device. However, researchers and scientists accessing Geographic Information Systems software (GIS) have unique challenges when implementing VDI.
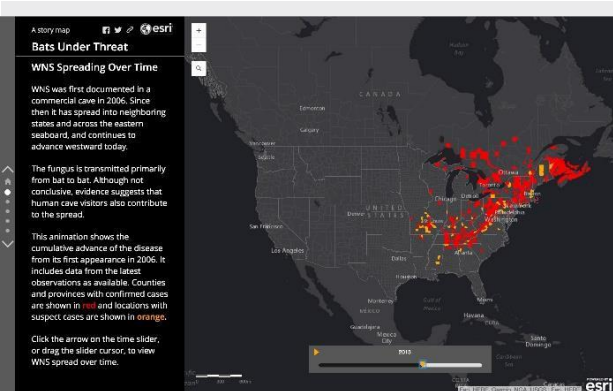
First and foremost, GIS software, especially Esri ArcGIS Pro, is very versatile and can be used to produce cartographic maps, 2D & 3D visualizations, and perform geographic analysis. This means that users typically rely on compute and graphics heavy workstations that are designed and validated to run ArcGIS Pro, all running on multiple monitors. Providing adequate performance that can scale as needed for these power users is a critical element of any VDI solution for ArcGIS.

Additionally, these solutions need to make sense from a perspective of managing costs, including staffing, upgrades, and maintenance. It's important when choosing a solution that makes deploying and maintaining a solution as simple and effective as possible. VDI helps avoid the expense of additional staffing and support, and provides a cost-effective way of upgrading systems to keep pace with the growing application requirements over time.

For GIS, VDI solutions that meet these requirements can deliver real workforce transformation, enabling users to be productive on their own terms, without compromising security, the budget, or a high-quality user experience.

VDI designed for GIS

Dell Technologies Validated Designs for VDI for Esri ArcGIS Pro is engineered and designed to deliver a high-performance and cost-effective platform for deliveringaccess to ArcGIS Pro for remote and mobile workers with unparalleled performance and simplicity.

End-to-end solutions from a single provider

Dell Technologies is the only provider offering end to end VDI solutions from the data center to the endpoint, including:

- Servers
- Storage
- Networking
- Workstations, thin clients, PCs, laptops, monitors and peripherals
- Specialized experts focusing on VDI

Dell Technologies Validated Designs

Dell Technologies provides architectures for ESRI ArcGIS Pro users who wish to leverage the benefits of a VDI environment with recommended density as part of our Validated Designs portfolio. These virtual workstation solutions help our customers to quickly design and deploy predictable solutions that lead to faster and easier deployment for IT, and better experiences for end users.

Enhanced security and compliance

VDI is often seen as more secure than physical desktops because applications and data never leave the data center and all communications between the client and infrastructure are encrypted. In GIS use cases, it's important to protect the often-sensitive mapping data and analysis, especially when the endpoint sits outside the corporate network. Dell Technologies builds security throughout our VDI solutions from the infrastructure to the endpoint and throughout the lifecycle of the environment to help protect your data against threats.

Greater workforce flexibility

VDI allows IT to deliver applications securely to a variety of endpoints, ensuring the same performance no matter where your users are. Dell EMC Validated Designs for VDI helps customers transform their collaboration and productivity with access to desktops and applications anywhere. Our solutions will help you reduce downtime while delivering a secure environment for your digital workspace.

Reduce costs and complexity

Validated Designs for VDI are configured and validated by Dell Technologies engineers to streamline the ordering and deployment process, so you can achieve a working solution much faster and more cost-effectively than working from scratch. Once deployed, IT can centrally manage images and applications while dynamically allocating resources as needed. With simplified upgrade paths for applications and hardware, IT can manage the environment with limited staff and without managing geographically dispersed endpoints. And one call to Dell Technologies gives you support for the entire solution from the data center to the endpoint.

Learn More about
Dell EMC Solutions for VDI
and
Dell Technologies InfoHub

Contact a Dell EMC Expert