

Cloud Ready Checklist

Special consideration must be given to effectively provision a cloud-based hosting of an Esri ArcGIS Enterprise Utility Network (UN) stack. This checklist covers topics to plan for when migrating or standing up your Utility Network in the cloud.

□ Choose the best-suited provider.

If you are planning to use Windows or Active Directory authentication in your UN stack, Azure may be the best path to integration. Alternatively, if AWS is your current provider, and you have expanded your Active Directory user store into the AWS environment, AWS may be the best option.

□ Authentication and Integration.

If you have an IdM (Identity Management) or IAM (Identity and Access Management) solution, plan the integration in the design phase of your UN platform.

□ Design Client Machines for Increased Performance.

Due to the large amount of data being transferred and visualization resourcing required by ArcGIS Pro, it is important the network connection is fast and reliable, virtual client machines are hosted in the same environment as your GIS platform, and the virtual client machines have GPUs assigned.

□ Auto Scale / Resource Management.

Provision Esri Enterprise on Infrastructure as a Service (IaaS) instances and manage the scaling. Then design the infrastructure so that resources are automatically shut down when not needed.

□ Considerations for Security.

A cloud infrastructure is no less secure than an on-premises system if the security safeguards are all built into your platform. For example, all client and server connectivity must be encrypted at rest and in transit, and all systems must be protected by technologies such as Multifactor Authentication.

□ Business Continuity and Disaster Recovery.

A cloud provider enables the ability to maintain services in the event of a system failure. This can be accomplished by designing an automated replication strategy which keeps data synchronized between separate data centers.

□ Migrate to the cloud.

Setting up an Enterprise Utility Network in the cloud can increase availability, recoverability, scalability, and security; so long as you plan for each piece.