

# TR|Cloud Tech Reformers Cloud Adoption



Cloud Migration, Cloud Adoption, and the Cloud Journey for K-12. Consulting, Implementation, and Management by Tech Reformers

**What makes this all possible today?  
The cloud.  
The AWS cloud powers digital transformation that is impossible or impractical in traditional data center infrastructure that, today, still many districts operate.**

## Wise Use of Capital and Cost Savings

In the old days, school districts invested in expensive hardware to run applications. This would include servers, network hardware, cabling, data centers, cooling, electrical upgrades, real estate, and a long-term internet contract. Districts have had to over-provision for their busiest time. These costs tended to repeat as technology changes.

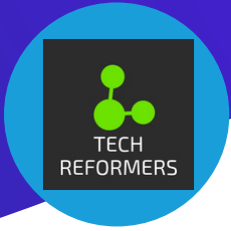
Today, with the cloud, districts need less capital investment. Expenses move from capital to operating expenses. Districts can even start up in the cloud at no cost. Amazon Web Services (AWS) offers a free tier! IT can also turn off servers at night when they are only used during business hours saving money. With the cloud, you only pay for what you use.

## Agility and Scalability

IT can scale up (bigger, more powerful servers) or scale out (more servers) as needed and when needed. The actual need determines whether to go quickly or slowly. In the cloud, servers can even be set to auto-scale. Resources automatically expand when needed and, notably, scale down to save costs when the resources are no longer required.

## Resiliency and Security

AWS protects the security of the cloud. They provide physical security and resiliency/ redundancy of the data centers. Availability zones (AZ's or groups of data centers) and regions (geographically isolated areas with AZ's) compound resiliency and redundancy. The cloud also excels at backup and disaster recovery. Besides the ability to replicate over AZ's and regions, the cloud has built-in backup, replication, serverless architecture, and security services that further improve resiliency and security. Many of these are at no additional cost.



Wise Use of Capital and Cost Savings

Agility and Scalability

Resiliency and Security

Innovation and Equity

Integrated with school districts' Google Drive or Microsoft OneDrive for integrated storage

Single Sign-in with Active Directory, Azure AD, AWS

Managed entirely by Tech Reformers or we can help district IT on the cloud journey



## Innovation and Equity

The cloud offers many avenues for districts to improve efficiency, one area for innovation. Districts can adopt cloud-enabled business process automation and “going paperless” in ways more potent than district data centers offer. The cloud can tap into Artificial Intelligence (AI), unavailable in data centers. Machine Learning (ML) takes process automation and digitization to new levels.

Advanced data analytics, Artificial Intelligence, and Machine Learning can bring new insights to address equity. New insights enabled by the cloud could bring ideas to close opportunity gaps. Cloud data capabilities can help ensure educators meet the needs of each individual student.

Not all students have powerful computers, as some rely on only a school-issued Chromebook. With the cloud, that opportunity gap disappears. A Chromebook or any home computer with an internet connection can tap into all the powerful applications streaming from powerful computers in the cloud.

## What do you get with Tech Reformers?

- Integrated Cloud
  - Tech Reformers will integrate with Active Directory or Google for authentication and the schools' Microsoft OneDrive or Google Drive.
- Hybrid Cloud
  - Tech Reformers offers consulting services to help you migrate to the cloud while keeping your existing data center.
- Excellent Performance and Support
  - Tech Reformers recommends auto-scaling to ensure enough application resources are available to your staff and students. Tech Reformers will provide support on your cloud journey whether you run the cloud or you use our managed services.
- Certified Cloud Architects
  - Tech Reformers consultants are certified in multi-cloud architecture.
- K-12 Experience
  - Tech Reformers consultants have years of experience working in K-12 school districts as CTO, CIO, and COO to understand the goals and challenges of school districts.
- Your Cloud or Our Cloud, Hybrid or All-in
  - Tech Reformers consultants understand the advantages of the AWS cloud and district data centers. We will help you evaluate the best fit for your workloads and needs.



Tech Reformers, LLC  
6271 Ellis Ave S Seattle, WA 98108  
United States  
info@techreformers.com  
www.techreformers.com  
206.401.5530