

Cloud Architecture & Security



**Providing our clients with secure,
innovative cloud solutions**



Drawing on our experience as a U.S. Government contractor, Concurrent Technologies Corporation (CTC) ensures a security-first approach for each client. At the core of our cloud offerings are strong Information Technology and Cybersecurity management processes.

Our team has deep knowledge of emerging cloud architectures as well as the performance and security challenges inherent to cloud migration. From development of the first FedRAMP-compliant Software as a Service (SaaS) to our efforts to deploy complex capabilities in the U.S. Government's classified cloud environment, we offer clients a wide range of cloud development and security expertise.

Cloud Consulting Service

CTC bridges the gap when commercial cloud service providers cannot deliver a full suite of services or meet the security requirements of your organization. As your trusted integrator, we manage the business and technical relationships with your cloud service provider(s), enabling the deployment of simpler, more efficient, secure cloud environments.



Cloud Migration Services provide an extensive and unique methodology to transition your application, system, mission, or enterprise to the cloud

Cloud Migration Services

From assessment and authorization to developing and implementing an architecture for cloud-based services, CTC supports your organization's migration and takes advantage of the full range of capabilities offered by a secure cloud computing environment.

Our Team has quickly and efficiently integrated ambitious and highly complex projects into the Amazon Web Services (AWS) Commercial Cloud Services (C2S) environment for our Intelligence Community clients. We deliver virtualization through the provisioning of dynamic desktops, the use of processing-intensive 3D graphics (NVIDIA-based GPUs), and the automated image processing of multi-source data. Applying lessons learned and proactively preparing prerequisites, CTC efficiently onboards multiple programs and provisions a development environment in a few days when most other programs take thirty days or more.

Rapid Cloud Planning and Integration

Navigate the complexities of cloud migration and deployment using CTC as your single source to assess, evaluate, and develop the correct architecture and execute a successful move to the cloud. CTC will ensure a smooth transition while aiding the migration to managed mobile platforms and providing a robust security architecture that meets government or corporate needs.

We can assist your organization with:

- Identification of the prerequisites for getting an operational system running in a secure cloud environment like AWS or C2S
- Development of the processes for onboarding enterprise services such as Audit-as-a-Service (AaaS), Enterprise Vulnerability Scanning Service (EVSS), Identity and Access Management (IAM), and Host-Based Security Services (HBSS)
- Management of AWS resources via the AWS or C2S Access Portal (CAP)
- Remote connection of sites to AWS or C2S
- Validation of commercial licenses for use in AWS or C2S, how to request Enterprise licenses for use in AWS or C2S, and the nuances of software licensing in the cloud
- Approval of software for use in the cloud.

Once a commitment is made to transition to the cloud, the real challenge is to ensure that the transition occurs without interruptions in service and without security breaches. Our transition methodology provides a proven, disciplined process for decision making, risk mitigation, and step-by-step planning while supporting a solid business case for transition.

Cybersecurity for the Cloud

We have a talented group of security professionals and cybersecurity engineers with experience in protecting your applications and data in the cloud. We have been successful in achieving a FedRAMP Provisional Authority to Operate and can transfer the experience and knowledge into helping other organizations to do the same. We have also been successful in achieving authorization to operate for cloud-based systems in classified environments.

Technical Credibility

CTC's cloud migration services allow you to transition to the cloud with confidence. We perform the necessary migration and transformation services to move your systems to the cloud using a flexible approach that aligns to agency mission, program objectives and constraints; meets your cloud-readiness requirements; and takes advantage of the full range of cloud services, consistent with your organization's mission-specific requirements. CTC has experience with:

- Complexity of inherited NIST 800.53/CNSSI 1253/ICD-503 security controls from the AWS or C2S host and Enterprise Services
- Nuances of firewall settings, limits on firewall rules, and related network configurations specific to C2S
- Processes for, and limitations of, dynamic provisioning within AWS or C2S while still complying with Attribute-Based Access Control (ABAC)
- Methods to manage users and AWS or C2S role-based access control (RBAC)
- Designations and management of privileged users and general users in AWS or C2S environments.



Experienced FedRAMP Certification Specialists

The U.S. Government certification program—the Federal Risk and Authorization Management Program (FedRAMP)—provides a standardized approach to security assessment, authorization, and monitoring for cloud products and services. This “do once, use many times” framework saves U.S. agencies time and money when conducting redundant security assessments.

CTC led the effort to achieve FedRAMP authorization for a government agency and on December 20, 2013, that effort resulted in the first Software as a Service to be authorized by FedRAMP, the first to deliver a virtual desktop environment, and the first to have an agency sponsor.

This background, coupled with our nonprofit status, provides you a trusted partner for your cloud efforts.

In a world where users may login with 10 different names and passwords over the course of a normal day, you need reliable cyber-technology solutions to overcome identity management challenges and stay ahead of unforeseen threats.

Federated Identity and Access Management

Organizations are presented with a growing problem juggling user identity management in a world where users may login with 10 or more different login names and passwords over the course of a normal day. Users accessing resources from a growing number of systems and locations only add to the difficulty.

Bringing these identities under a common umbrella is a problem that the industry has tried to remedy for years. Factoring in requirements such as multifactor identification, the hurdles for user security become increasingly difficult to overcome.

CTC's expertise with Federated Identity Management provides access to cloud resources from within your domain utilizing Single Sign On. This can also be used to simplify the transition to cloud-based applications with minimal user effort.

Employing CTC's Unique Qualifications

Our government cloud service has its foundation in over 25 years of providing innovative IT solutions and strong cybersecurity expertise, as well as meticulous and efficient program management. We leverage our current and recent experience in successfully migrating and deploying highly complex projects to the secure cloud environment. Let CTC assist your organization with an efficient and lower-risk transition to the secure cloud.



*Concurrent
Technologies
Corporation*

Concurrent Technologies Corporation (CTC) is an independent, nonprofit, applied scientific research and development professional services organization. Together with our affiliates, Enterprise Ventures Corporation and CTC Foundation, we leverage research, development, test and evaluation work to provide transformative, full life-cycle solutions. To best serve our clients' needs, we offer the complete ability to fully design, develop, test, prototype, and build. We support our clients' core mission objectives with customized solutions and strive to exceed expectations.

CTC's quality management system is certified to the ISO 9001:2008 (Quality) and 14001:2004 (Environmental) standards. CTC's for-profit affiliate, Enterprise Ventures Corporation (EVC), is certified to the AS9100 standard for aerospace activities.

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