APPTIS IS

CLOUD COMPUTING

With any new technology or emerging business practice concept, there is a time of uncertainty where you need to separate hype from reality. Cloud Computing is no different.

At Apptis, we help clients find the reality by implementing Cloud Computing to lower costs and maximize technology and services investments. We ensure that your investment provides value and benefit. Apptis is not just talking Cloud Computing–Apptis is Cloud Computing.

With the proven, trusted, and secure Apptis Cloud Computing Lifecycle, our clients realize more efficient use of their capital, personnel, and technology resources. Our leadership role in the industry enables organizations to more rapidly and cost effectively reap the benefits of Cloud Computing and integrate Cloud into their technology and business architectures.

Apptis can assess the architecture of an application and recommend modifications that allow you to take full advantage of Cloud Computing environments. To fully leverage the advantages of the Cloud, we can re-architect an application or resource so that deployment costs are minimized, elasticity is maximized, and you can readily select your own data center or a myriad of Cloud providers for deployment.

The Apptis Cloud Computing Lifecycle includes functional requirements for defining use cases, providing security, defining a data integration strategy, identifying interfaces, and specifying quality metrics that predict and monitor how well an application performs in the Cloud. Our methodology collects performance and resource utilization metrics with virtual management tools and integrates these into your existing management platforms, eliminating dual systems and simplifying operations and maintenance.

Having worked with many of the leading Cloud Computing providers, we are able to rapidly map how any Cloud Computing provider's security and certification process overlays onto your compliance requirements such as Payment Card Industry Data Security Standard (PCI DSS), Sarbanes-Oxley (SOX), the Health Insurance Portability and Accountability Act (HIPAA), Federal Information Security Management Act (FISMA), and Defense Information Assurance Certification and Accreditation Process (DIACAP).

APPTIS CLOUD COMPUTING LIFECYCLE

Our Cloud Computing Lifecycle is designed to encompass all of the processes and requirements needed to Cloud-enable an application or resource. It can be applied from beginning to end, or specific processes can be extracted and executed to meet your particular needs.

Apptis begins with **education** on Cloud Computing to demonstrate how the enterprise system can take advantage of the Cloud's benefits. The education process familiarizes stakeholders including executives, security, enterprise architects, engineering, and operations and maintenance with the Cloud Computing model. This breaks down barriers to implementation by cutting through the hype and providing an understanding of how Cloud Computing will realistically support your organization's mission.

Apptis provides an **assessment** of enterprise systems to identify the appropriate application, or components of an application or resource, for leveraging Cloud Computing. The Apptis assessment includes examination of the application or resource's use cases, architecture, security, operational requirements, and applicable laws, regulations, and directives.

Apptis focuses on developing a Cloud Computing solution to fit the specific requirements of the enterprise. With the assessment complete, Apptis details a **requirements definition** that identifies the fit between applications for different types of Cloud Computing deployments considering fees, licensing, service-level agreements (SLAs), guidelines, security, performance, maintenance, and operational monitoring.

The **planning** stage turns requirements into design and deployment options. The design includes alignment to the enterprise architecture, mapping Cloud Computing providers against requirements, ranking provisioning tools for each solution, assisting the organization in negotiating SLAs with the Cloud Computing provider, and developing a cost and Return-On-Investment model.

Porting separates the application or resource from the underlying infrastructure. Refactoring of legacy applications can also occur to take advantage of the highly elastic Cloud Computing infrastructure.

Cloud providers have tools to allow provisioning and decommissioning of applications from the cloud computing environment. **Provisioning** an application into the Cloud and decommissioning that application from Cloud deployments can be a complex process. Apptis leverages its relationships with leading Cloud Computing infrastructure companies to identify which provisioning systems meet your system's requirements. Apptis works with the organization's engineering, operations, and maintenance stakeholders to develop processes to integrate the Cloud-enabled solution into the existing operations and maintenance environment, leveraging your existing investments and training.

The federal government mandates that all products and services used pass a Certification and Accreditation (C&A) process, which subjects products to security audits, verifications, and validations. Apptis provides **verification and validation** services to streamline the C&A of Cloud-enabled solutions. Apptis has extensive knowledge of civilian agency C&A requirements and the DIACAP to speed your Authority To Operate (ATO).

Apptis then supports the organization in the **deployment** of its applications to Cloud environments. Apptis acts as a trusted broker between the organization and Cloud providers to support the deployment, SLA monitoring, decommissioning, and billing of applications deployed to the Cloud.

Once deployed, Apptis can provide remote **system management** that includes performance and security monitoring and auditing for applications and resources. Apptis establishes and maintains SLAs between the Cloud providers and the organization, and works with stakeholders to integrate remote management into existing management solutions.

BENEFITS OF CLOUD COMPUTING

When properly planned, implemented, and secured, Cloud Computing offers extraordinary benefits, including:

- **Reduced Cost:** Up-front investment is greatly reduced and funding is shifted from capital to operational expenditure.
- **Agility:** Rapid application development, testing, and deployment are possible because required infrastructures are allocated on demand.
- **Elasticity:** Application performance is rapidly scaled up or contracted as desired or needed.
- **Green:** By consolidating applications into a few large data centers the total power, cooling, and facilities required is less than having many small distributed data centers.
- **Availability and Continuity of Operations:** The use of virtualization within Cloud Computing allows applications to rapidly move between logical and physical Clouds to support high availability and continuity of operations.
- **Alignment to Mission:** Organizations can reduce resources dedicated to infrastructure procurement, support, and maintenance, and can then reallocate those resources to concentrate more fully on meeting mission goals.

WE SPEAK **CLOUD**℠

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