How to start building in the AWS Cloud

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform. Here are some fundamentals that will help you better understand, navigate, and begin building in the AWS Cloud.

The AWS Well-Architected Framework (WAF)

The WAF provides architectural best practices for designing and operating reliable, secure, efficient, and cost-effective cloud systems. The framework is built on five pillars, which are:

Operational Excellence

This pillar includes design principles that will help you to initiate and run workloads, gain insight into their operation, and continuously improve processes to deliver business value.

Security

The principles in this pillar will help you protect your data, systems, and assets.

Reliability

A resilient workload is one that can recover quickly from failures to meet business demand. The principles outlined here will help you ensure your workloads do what they're expected to do.

Performance Efficiency

By following the principles in this pillar, you can take a data-driven approach to building architecture that achieves performance efficiency in the cloud.

Cost Optimization

This final pillar incorporates principles that will help you achieve desired business outcomes while minimizing costs.

To dive deeper into each these pillars, click on the links above.

Tools to facilitate building on AWS

Once you're ready to begin building on WAF design principles, there are a wide variety of tools available to facilitate your journey. Here are five offered by AWS:

1. **Infrastructure as Code (IaC)** tools range from AWS Cloud Formation, which lets you provision resources in YAML or Json; to AWS Cloud Development Kit, which enables you to define cloud applications in familiar programming languages.

2. **Software Development Kit (SDK)** and **Command Line Interface (CLI)**. Available in popular programming languages, AWS SDKs take the complexity out of coding while AWS CLIs enable you to control multiple AWS services from the command line and automate them through scripts.

3. **Integrated Development Environment (IDE) and IDE toolkits** such as AWS Cloud9 allow you to run, write, and debug code in your AWS environment.

4. **CI/CD integration** enables teams to deliver code changes frequently and reliably.

5. **Next generation DevOps services** such as Amazon CodeGuru offer intelligent recommendations for improving code quality and identifying an application's most expensive lines of code.

To explore these tools further, click on the links above.

Using AWS Well-Architected Partners

When embarking on your AWS Cloud journey, you can enlist the support of AWS Well-Architected Partners, who will help you implement AWS best practices, measure your workloads, and drive ongoing improvements.

Customers who have engaged with AWS partners have realized significant cost savings, transformed the performance of their applications, eliminated security risks, and more.

Conclusion

Building on AWS is easy once you're familiar with the AWS Well-Architected Framework and the tools and support available.
If you'd like to know more, email aikshin@amazon.com.

Marketing Updates

AWS Lunch & Learn - Taking advantage of Intelligent Automation

24 February 2022, 12:00 PM – 1:30 PM SGT
AWS office, 23 Church Street, Capital Square #10-01, Singapore 049481

Intelligent Automation is the use of various automation technologies, for example, robotics process automation (RPA), business process management (BPM), workflow engines coupled with artificial intelligence, and machine learning to accelerate an organization's digital transformation journey. With the use of intelligent automation, organizations can now realize various benefits by automating complex processes which were either not technically possible using traditional automation techniques, and tools, or too costly to implement.

At the end of the session, you will:

- Understand how your organization can benefit from intelligent automation
- Find out how AWS services can help you in your cloud mission
- Learn about SimplifyNext's role in partnering with you in your automation journey

Speaker: Jason Ku, Professional Services Director, SimplifyNext

Jason has over 15 years of experience in Technology Advisory, Transformation and Operations, having assisted leading ASEAN and global organizations. At SimplifyNext, he advises organizations on RPA Strategy and Roadmap, CoE and Operating Model Design, Process Discovery and Automation Assessment, Business Process Re-engineering, etc. He plays the role of the Engagement Lead for large Automation initiatives. While he has broad-based industry experience, Public Sector has been a key focus area for him. Before SimplifyNext, he was with a global consulting firm for 12 years where he led the Intelligent Automation Practice in ASEAN and led projects for global and regional customers on Automation, Cloud and Digital Workplace.

Register via https://startwithaws.sg/events/register

AWS Public Sector Seminars

Join us at these no cost seminars, and learn about AWS cloud concepts, AWS services, security, architecture, pricing, and support to build your AWS Cloud knowledge. You will be provided with links to hands-on lab exercises to reinforce some of the core concepts of the class.

Register via:
https://aws-public-sector-seminars.splashthat.com

Future of Cloud

Amazon Web Services (AWS) is positioned to accelerate Singapore's journey to becoming a smart nation, underpinned by a digital economy, digital government, and digital society. The cloud is integral to many of the issues driving change at the national level in Singapore, from the hybrid workforce to next generation policy. By making it simpler for all segments of society to adapt to and embrace digitalization, the AWS Cloud supports the government's objective to transform Singapore into an innovation-led, economic powerhouse and a world-class city that is responsive to the changing needs of its citizens.

Learn about how AWS can support Singapore's transformation into a smart nation. Delve into topics ranging from how to quickly migrate to AWS and how to meet security and compliance requirements, to how to get the most out of powerful AWS quantum computing capabilities.

Access future of cloud at
https://futureofcloud.com.sg