

Cloud Gaming at the Edge Deliver innovative, ultra-responsive gaming

around the world with AWS Today's billions-strong gaming population spans the globe and plays on a range of devices from home console to mobile. How can you deliver innovative,

real-time experiences to players across the globe? With AWS edge services you can deploy online games closer to players, stream games on ultra-fast 5G networks, and streamline game development. AWS allows for a truly consistent hybrid experience, across on-premises, the cloud, and at the edge.

at home and on mobile. Performance and innovation are critical differentiators in an increasingly competitive space for multiplayer game players.

Billions of new players around the world are looking for the next great experience,

The growing gaming population wants speed and innovation

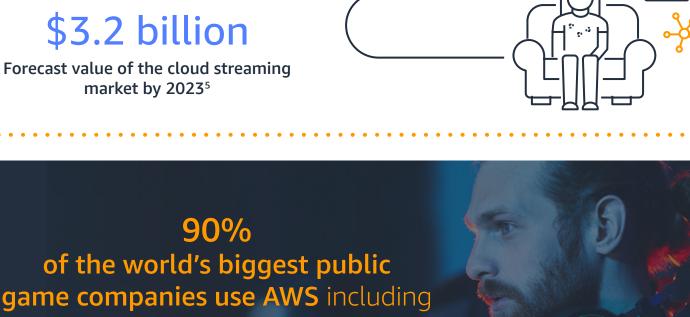


Forecast value of the cloud streaming market by 2023⁵





\$3.2 billion



Cloud gaming challenges

Success leads to scaling challenges

Can your game servers support millions of concurrent players across



Game builds keep getting bigger and targeting more platforms. How can

90%

the globe:

when your customers aren't near an AWS Region with AWS Outposts

AWS Outposts extends fully managed AWS infrastructure, services, APIs, and tools to virtually any data center, colocation space or on-premises facility around the world for a truly consistent hybrid experience. This also provides the flexibility needed to easily move workloads to Local Zones (metro areas) or Wavelength Zones

Scale resources elastically using AWS services like ALB and Auto Scaling, and burst on-premises

Deploy game servers closer to your end users giving local players the best multiplayer experience Create ultra-low latency edge locations with Intel-powered EC2 instances, including general purpose,



compute optimized, memory optimized, graphics optimized, and I/O optimized

workloads to AWS Regions when you need more capacity

AWS Local Zones

(5G) as they come online. Read more in our eBook.

Deploy latency-sensitive game servers in AWS Local Zones to run real-time multiplayer game sessions and maintain a reliable gameplay experience

Deliver real-time multiplayer closer to gamers

Application traffic stays within the 5G network avoiding network "hop" latency Seamlessly integrate with a variety of AWS services

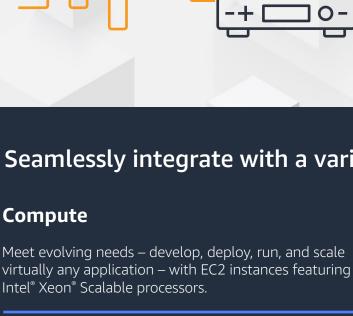
Compute

Amazon CloudFront

220 global Points of Presence.

Deliver game content faster by caching your static content – like game downloads, mods, and patches close to your players using the Content Delivery Network and live stream to millions with more than

AWS Wavelength



Stream games from game servers in AWS Wavelength Zones around the world.

Choose Wavelength Zones with CSP networks such as Verizon, Vodafone, KDDI, and SK Telecom

leaderboards, virtual goods, or cheat detection.

Store and access player-generated data in real time – whether for

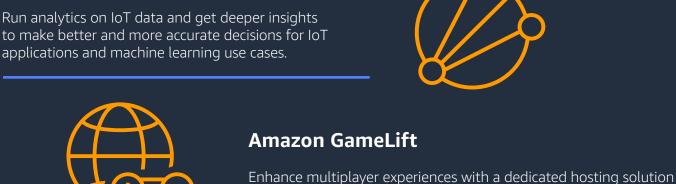
Machine learning

that deploys, operates, and scales game servers.

detection, and speech recognition.

Speed development and make games smarter. Automate things like speech recognition, fraud

Database



A game engine with no royalties or seat fees, frictionless integration with Twitch and AWS, plus much more on

Amazon Lumberyard

the horizon.

Amazon Global Accelerator Reduce in-game latency and jitter up to 60% by using the dedicated AWS global network infrastructure for player traffic.

1. Discover more

2. Engage

1 Statista. Sept 2019. Average time spent playing multiplayer online games in the U.S. 2016, by device.

https://www.statista.com/statistics/259578/average-time-spent-playing-multi-player-games-online-in-the-us-playing-multi-player-games-games-online-in-the-us-player-games-games-games-games-games-gam

Next steps to better game development on AWS

Fully managed infrastructure Reduce the time, resources, risk, and maintenance required for managing IT

Securely connect and manage devices

Easily and securely scale to

billions of devices and trillions

of messages

Broadest and deepest services AWS has 175+ cloud

and device services, more than

any other provider

Reach out to an account team to discuss your gaming scenario in detail. Fill out our contact form.



3. Get started Log into the AWS Management Console, and then use standard AWS APIs, or the Management Console to launch and run AWS







Gamers want a level playing field From mobile gamers to esports pros, every player wants fast performance. How can you deliver ultra-low latency where it's needed?

your current infrastructure keep up with this demand?

How AWS innovates game design

Use the same AWS infrastructure to develop, build and deploy, even

With AWS Local Zones, you deploy your game servers closer to your players than ever before for a real-time and interactive in-game experience. **Deliver single-digit millisecond latency** for players in specific locations

Scale flexibly with the same elasticity, availability, and pay-as-you-go pricing offered in AWS Regions

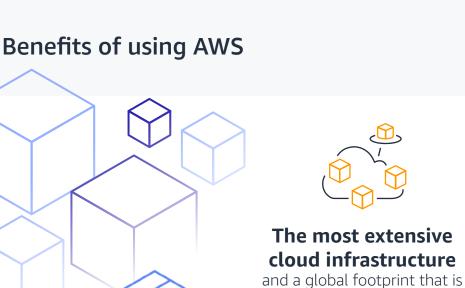
Provide high-end gaming on low-power devices

Make demanding games available on 5G devices with limited power

Deliver real-time gaming experiences leveraging 5G latency and bandwidth benefits







constantly increasing

Build quicker and

reduce costs

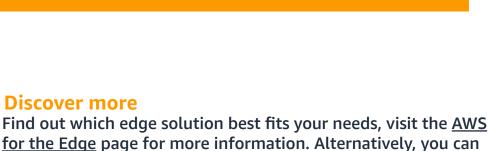
Deploy on the cloud or at

the edge, with consistent





visit the AWS Game Tech page for more details on building games.



resources. With Outposts, AWS will install and deliver your configuration on premises.



Intel® Xeon® Scalable processors

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Newzoo. Apr 2020. The Global Cloud Gaming Market Is on Track to Generate Revenues of \$3.2 Billion by 2023. https://newzoo.com/insights/articles/cloud-gaming-business-market-revenues-and-ecosystem

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