AWS Invent

GAM304

Global game servers with compute, containers, and Amazon GameLift

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Agenda

What to expect from this chalk talk

AWS game server hosting options

Challenges

Q&A and whiteboarding

Closing

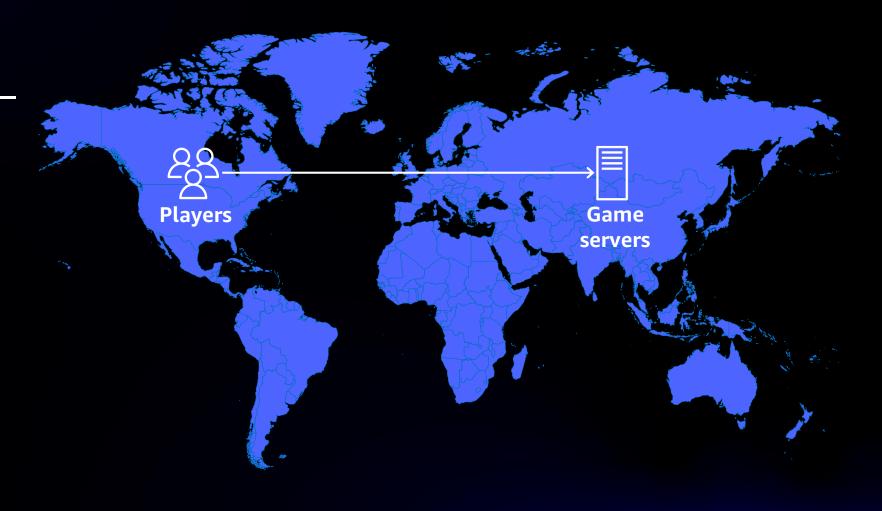


What type of game are you developing right now?



What is a game server?

- Dedicated process running on a host – runs game world simulation or a rule engine
- Hosted on public internet so that game clients can reach it





AWS game server hosting options

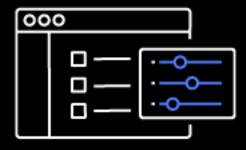


Game server hosting: The choice is yours



Build your own

Virtual machine or container hosting



Managed services

Managed solution for deployment, virtual machine management, and session placement



What is your game server hosting choice?



Game server hosting: Build your own

Virtual machine hosting



WITH



Container hosting



OR



OR



Game server hosting: Managed services



Amazon GameLift hosting

- Fully managed game server hosting
- Global reach and worldwide game placement
- Auto scaling and monitoring



- Simple API layer for game session management
- Use your existing tools and software without GameLift's game server management layer
- Leaves server management in your hands

Challenges



Player expectations



- Great in-game experience
- Uninterrupted play no server lag
- Have fun with friends



Technical challenges



- Latency group players in a location close to them
- Scaling right amount of game servers available
- Operational ease of management and observability

Business requirements



- Cost of the first player
- Launch plans
- Ability to reach players in different geographical regions

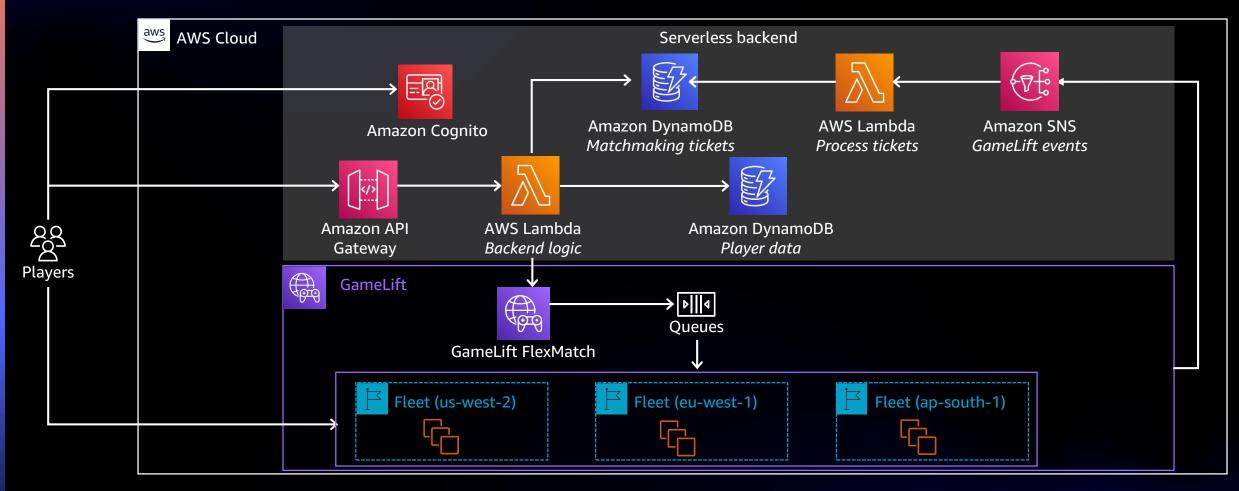
Share your challenges and requirements



Reference architectures



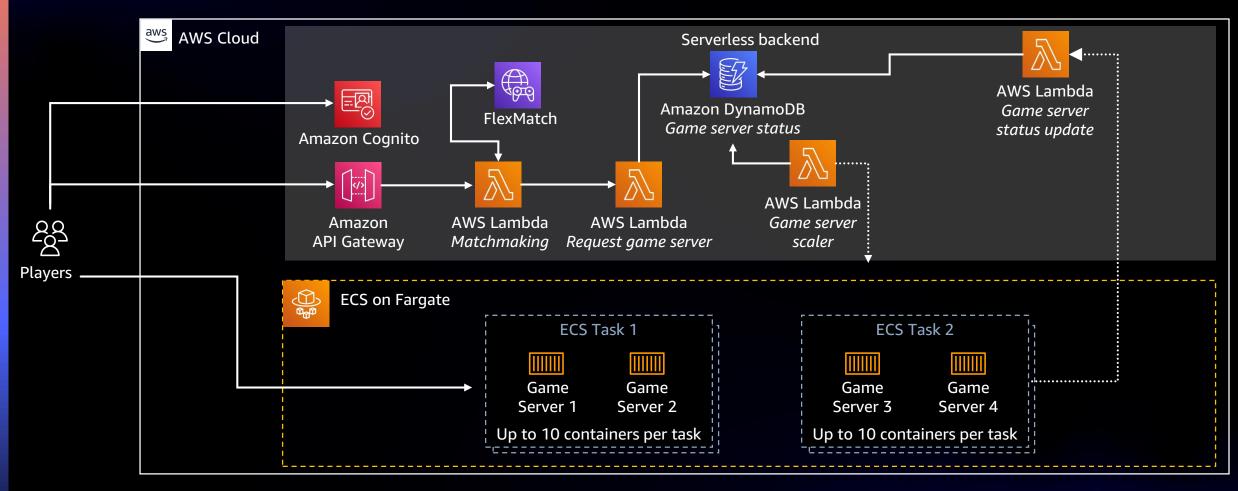
Game servers on GameLift hosting



GameLift serverless backend: https://github.com/aws-samples/aws-gamelift-and-serverless-backend-sample



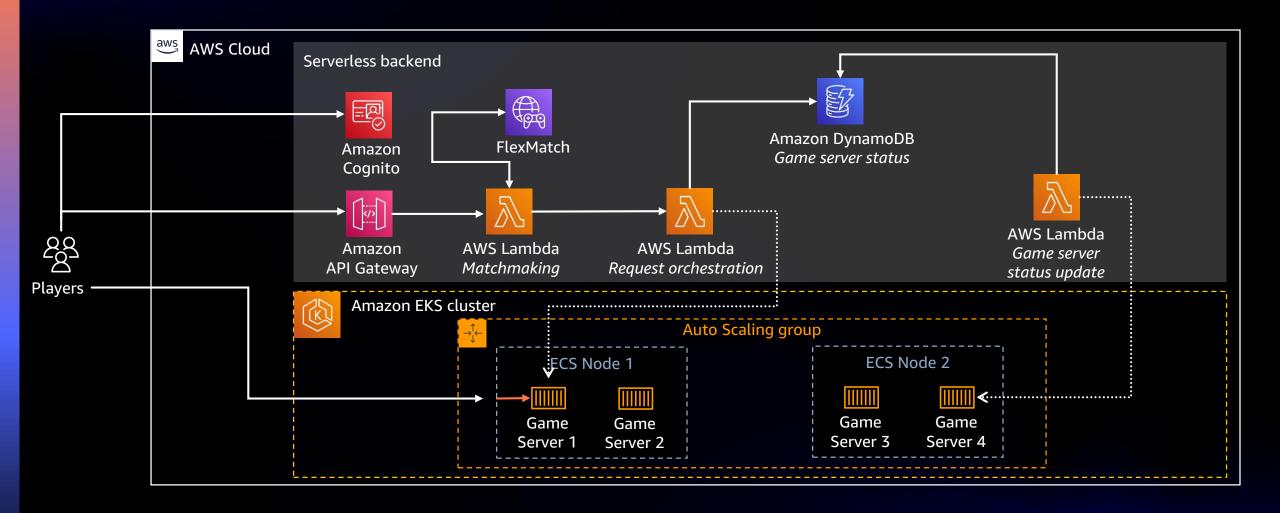
Game servers on ECS on Fargate



Game server hosting on AWS Fargate: https://github.com/aws-samples/fargate-game-servers



Game servers on EKS





Useful resources

- Game Tech website
 https://aws.amazon.com/gametech/
- Customer references
 https://aws.amazon.com/gametech/customers/
- re:Invent 2021 Game Tech chalk talk
 GAM303 Extend your global game architecture to the edge with AWS

Thank you!

