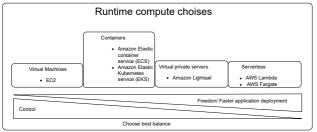
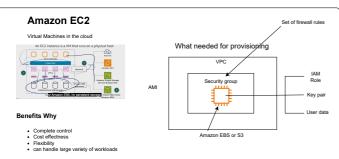
Module 5





Selecting EC2 instance type

Available over 270 types

- When choosing conside

 - Workload needs
 Performance needs
 Cost requirements
- EC2 instance type defines

Amazon FSx for Windows File Server

Basically as EFS but for Wind
 eg. Home directories, Data analytics

CPU
 Storage
 Network performance characterists

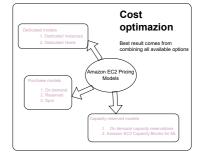
aming Convention

- C 7 g n . xlarge

- C = Family
 7 = Generation
 G = processor family
 Additional capabilities
 Size

Best to start with the family that aligns with planned

Best to start with the family that aligns with planned workloads Each types has certain optimization for for certain workloads Latest available generations has best price-performance ratio price performance ratio price professional programs available types page helps to choose Instance types page helps to choose Instance types page helps to choose Compute Optimizer Service Analyses ECC Instances & Auto Scaling groups and generates recommendations to improve



Adding Storage to EC 2

EC2 Storage resource

Amazon EBS Block level storage Persist independency eg. S3 can be back up stand alone database Lov access latency

- Temporary Block level storage
 Good for temp use
 eg. cache or buffer

Instance store

- Amazon elastic file system EFS

 - Provides file system storage for linux-bas workloads
 Fully managed elastic file system
 Multiple access possible
 Auto scaling
 eg. Database backups or file systems for enterprise applications, media workflows

File sharing

FRS FFS or FSx Not OK

AMI Deployment models

- Additional Configurations Run initialization script specified by user data run only when instance is launched
 With running instance you can access by Stop > Modify script > Remove: config_scripts_user.file -> Re-run

- How security updates configu
 New versions of applications
 app conf changes
 depency updates

Placement groups

- Where group of interdependent instances run within availability

- Reduse correlated or simultaneus failure
 3 options for strategies
 o Cluster
 partititon
 spread

Choosing AMI to launch EC2 instance

- Template -> OS plus possible other stuff
 Launch permission -> Who can access/ use to launch
 Block device mappings

Benefits:

Choose AMI by

- Region
 OS
 Storage type
 Architecture
 Virtualization type

Best performance achie

