

**Storage Gateway**



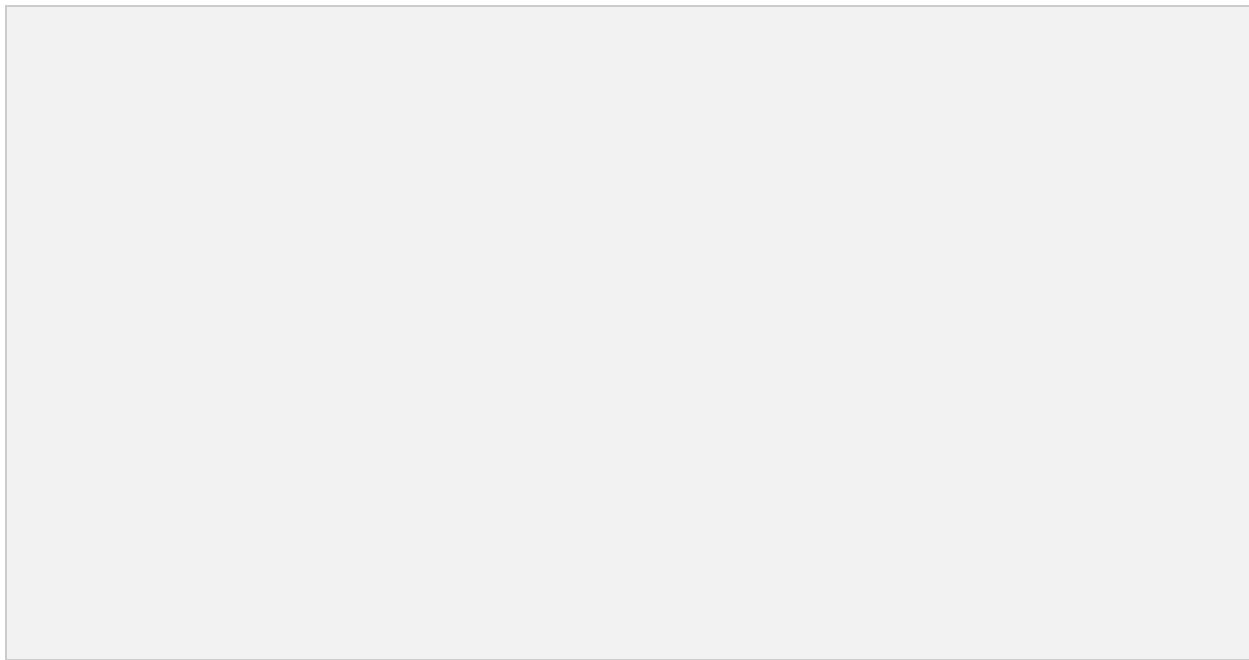
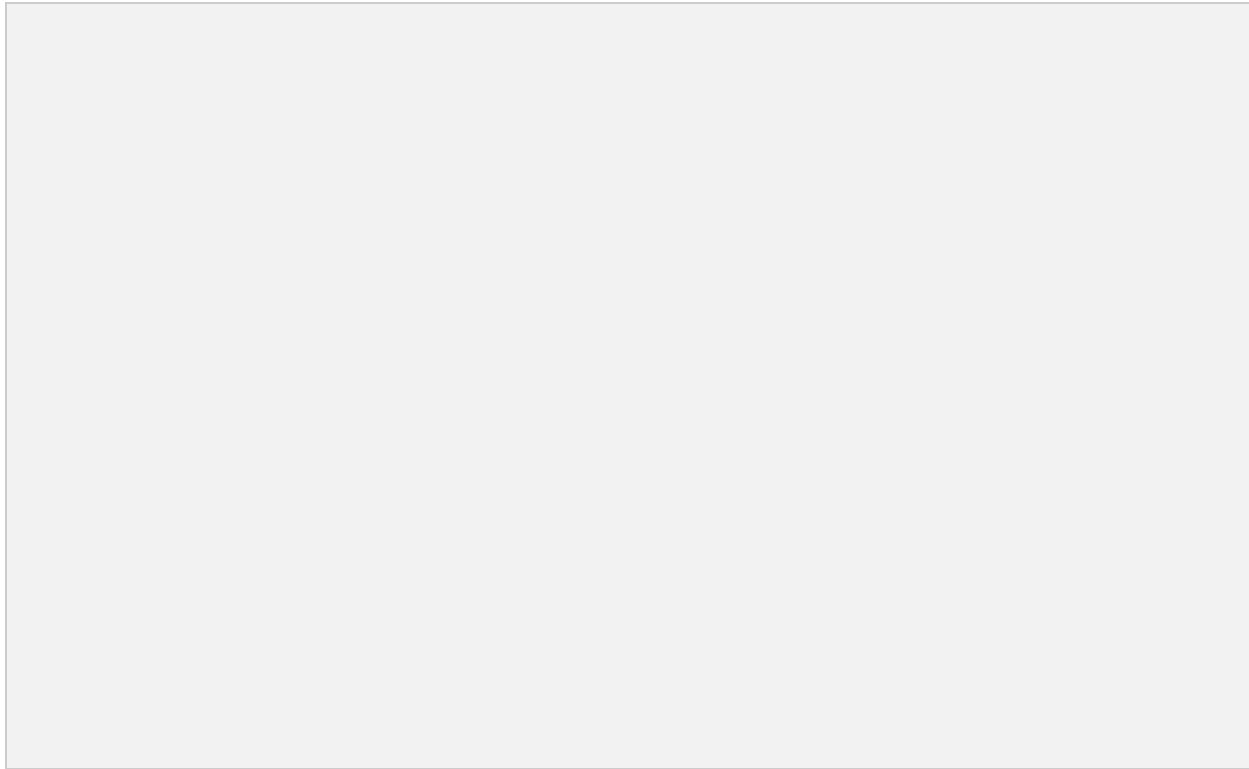












**S3 and IAM**











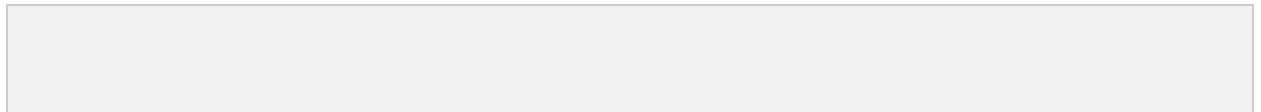
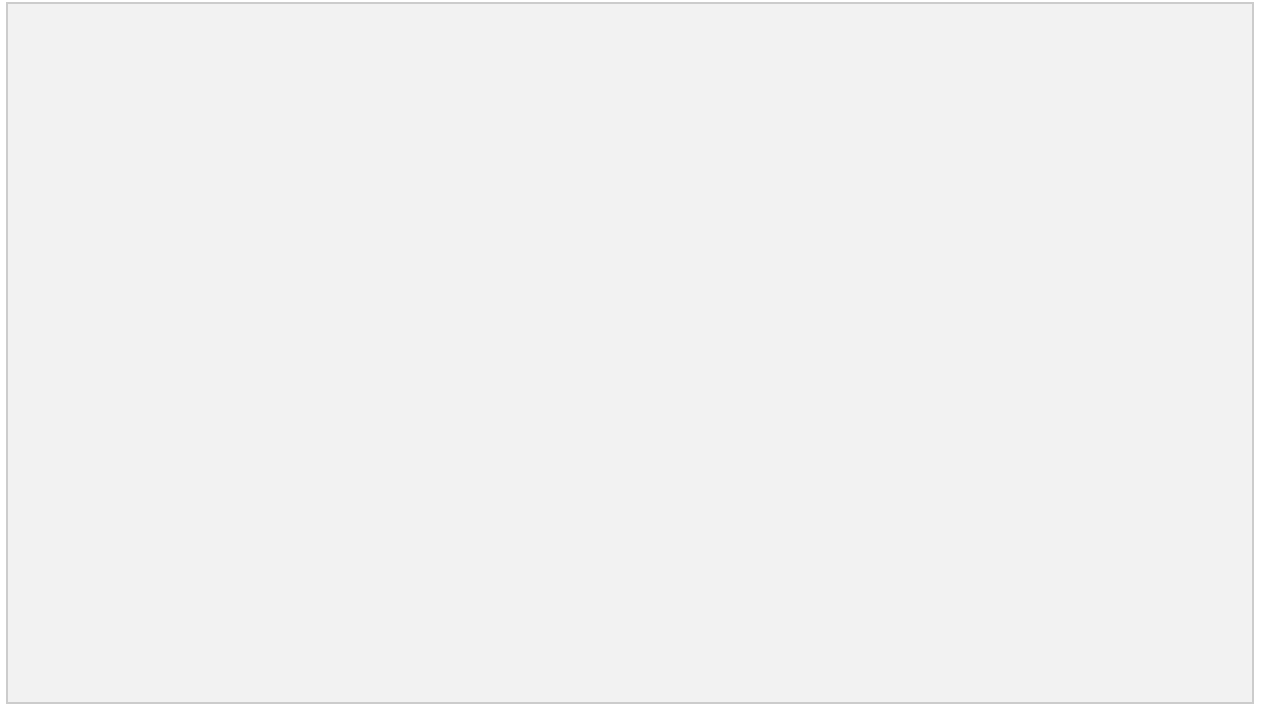




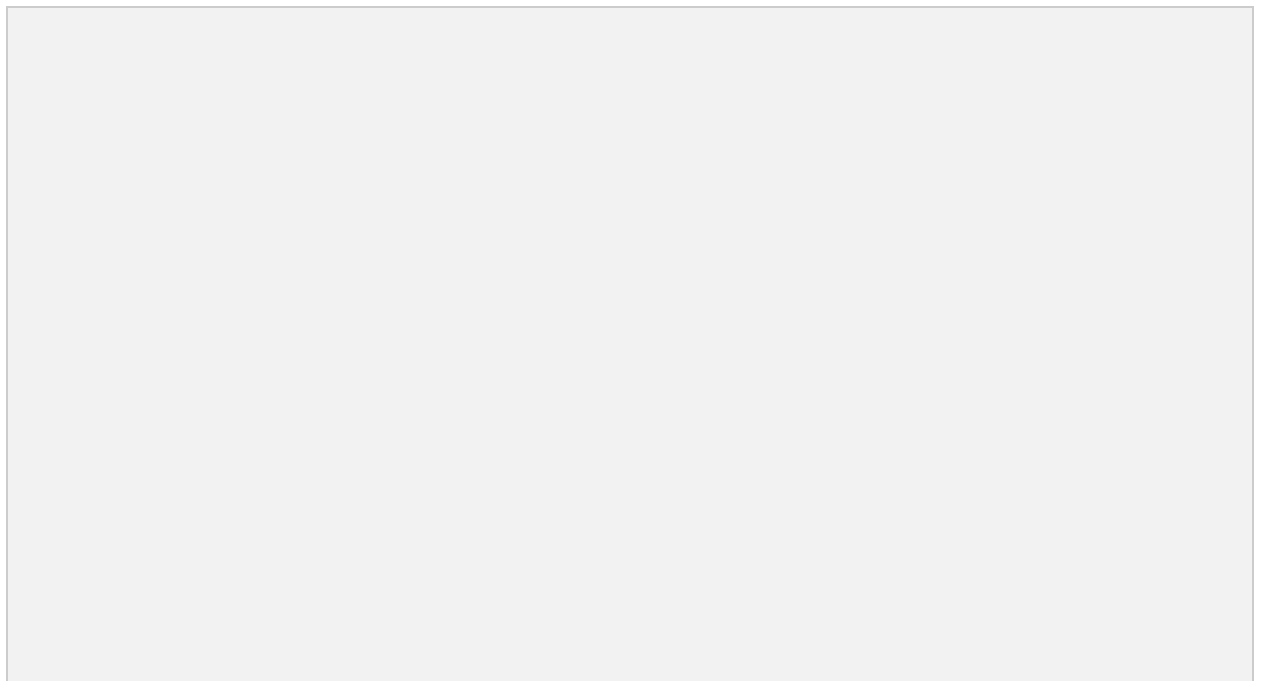








### **S3 quiz**







Question 6:

**In what language are policy documents written?**

☐ Python

☒ JSON

☐ Node.js

☐ Java

Question 7:

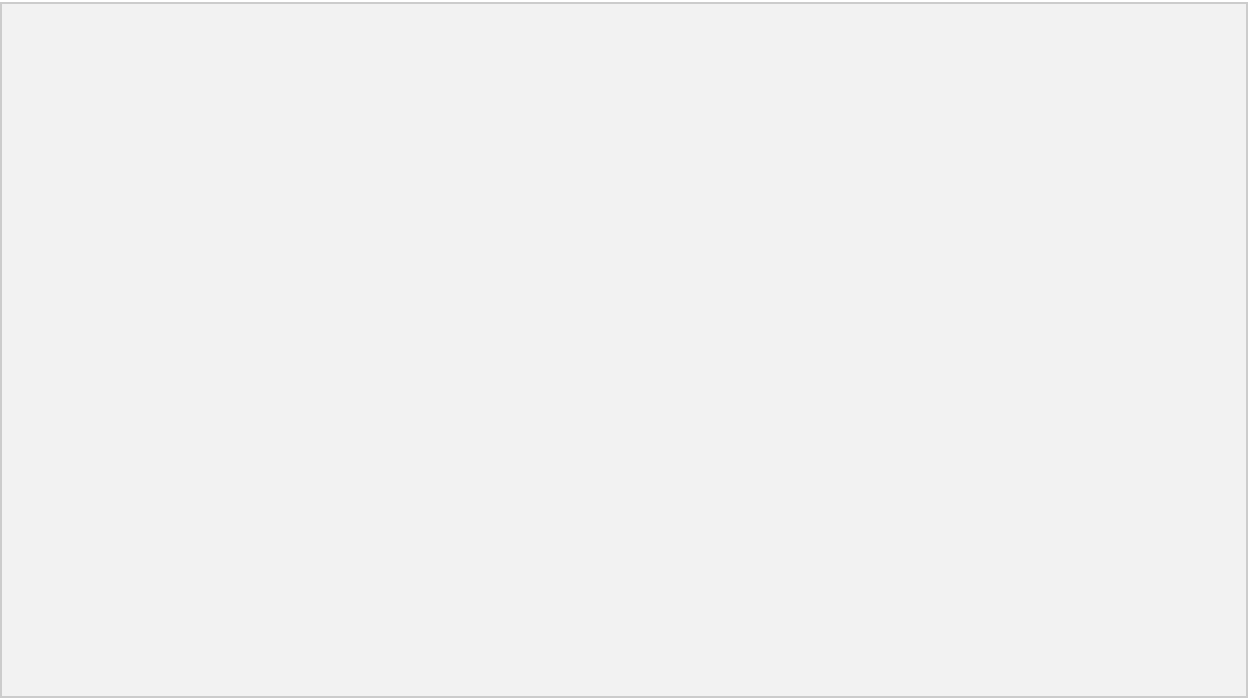
**What is the default level of access a newly created IAM User is granted?**

☐ Read-only access to all AWS services.

☒ No access to any AWS services.

☐ Administrator access to all AWS services.

☐ Power user access to all AWS services.



Question 9:

**You have a client who is considering a move to AWS. In establishing a new account, what is the first thing the company should do?**

- ☐ Set up an account using Cloud Search.
- ☒ Set up an account using their company email address.
- ☐ Set up an account via SQS (Simple Queue Service).
- ☐ Set up an account via SNS (Simple Notification Service).



Question 11:

**What level of access does the "root" account have?**

☐ Read-only Access

☐ Power User Access

☒ Administrator Access

☐ No Access



































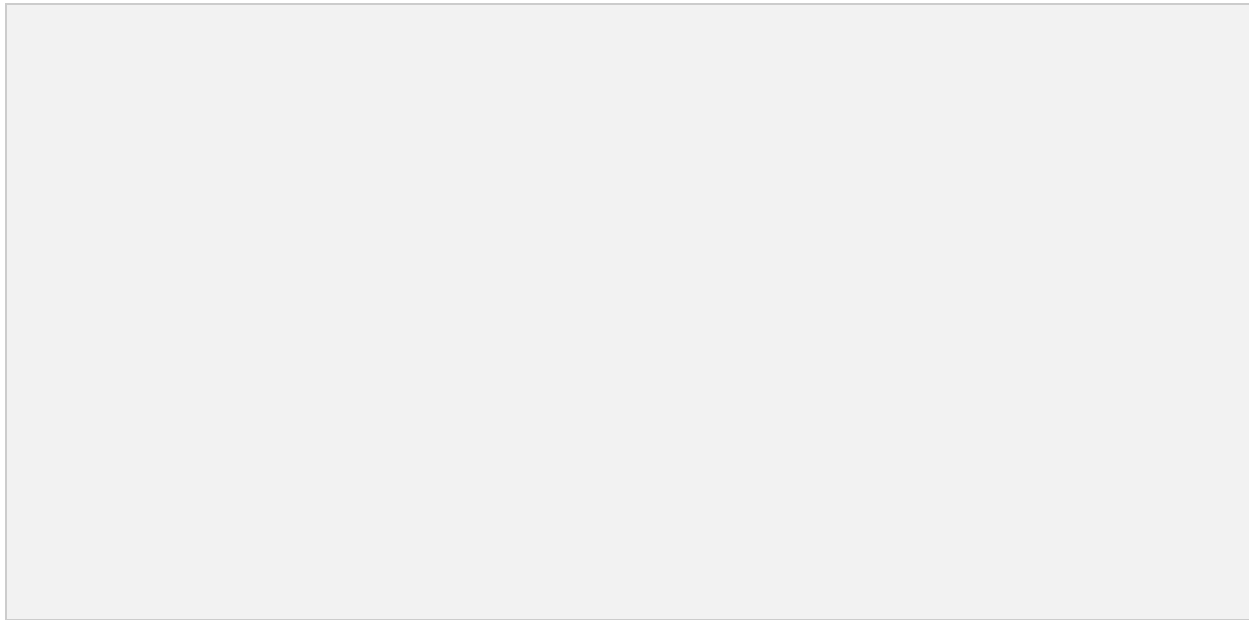
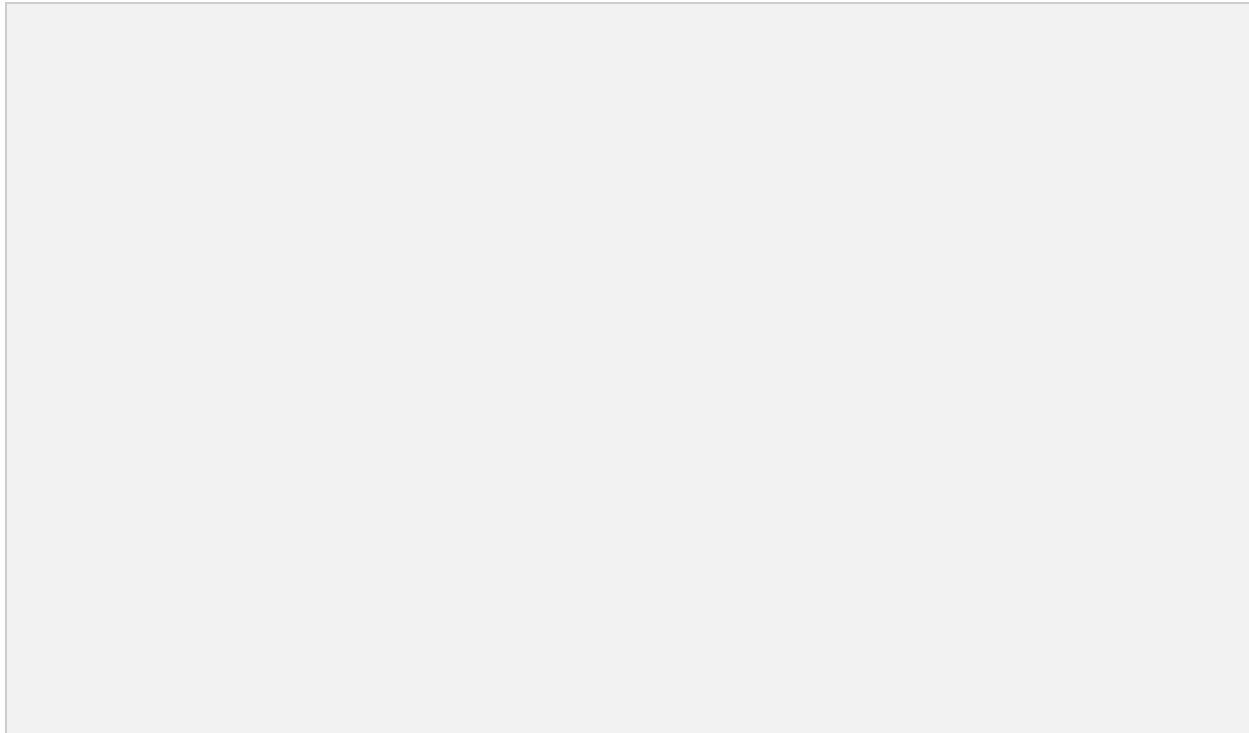












**EC2 (Elastic Cloud Compute)**





## On Demand

### On Demand pricing is useful for;

- Users that want the low cost and flexibility of Amazon EC2 without any up-front payment or long-term commitment
- Applications with short term, spiky, or unpredictable workloads that cannot be interrupted
- Applications being developed or tested on Amazon EC2 for the first time

# Reserved Pricing

## Reserved Pricing Types

1

### Standard Reserved instances

These offer up to 75% off on demand instances. The more you pay up front and the longer the contract, the greater the discount.

2

### Convertible Reserved Instances

These offer up to 54% off on demand capability to change the attributes of the RI as long as the exchange results in the creation of Reserved Instances of equal or greater value.

3

### Scheduled Reserved Instances

These are available to launch within the time windows you reserve. This option allows you to match your capacity reservation to a predictable recurring schedule that only requires a fraction of a day, a week, or a month.



## Spot pricing is useful for;

- Applications that have flexible start and end times
- Applications that are only feasible at very low compute prices
- Users with urgent computing needs for large amounts of additional capacity



## Dedicated Hosts pricing is useful for;

- Useful for regulatory requirements that may not support multi-tenant virtualization.
- Great for licensing which does not support multi-tenancy or cloud deployments.
- Can be purchased On-Demand (hourly.)
- Can be purchased as a Reservation for up to 70% off the On-Demand price.



The number after the alphabets in the below image is for the generation (no need to memorize it)

# EC2 Instance Types

Family	Speciality	Use case
F1	Field Programmable Gate Array	Genomics research, financial analytics, real-time video processing, big data etc
I3	High Speed Storage	NoSQL DBs, Data Warehousing etc
G3	Graphics Intensive	Video Encoding/ 3D Application Streaming
H1	High Disk Throughput	MapReduce-based workloads, distributed file systems such as HDFS and MapR-FS
T3	Lowest Cost, General Purpose	Web Servers/Small DBs
D2	Dense Storage	Fileservers/Data Warehousing/Hadoop
R5	Memory Optimized	Memory Intensive Apps/DBs
M5	General Purpose	Application Servers
C5	Compute Optimized	CPU Intensive Apps/DBs
P3	Graphics/General Purpose GPU	Machine Learning, Bit Coin Mining etc
X1	Memory Optimized	SAP HANA/Apache Spark etc
Z1D	High compute capacity and a high memory footprint.	Ideal for electronic design automation (EDA) and certain relational database workloads with high per-core licensing costs.
A1	Arm-based workloads	Scale-out workloads such as web servers
U-6tb1	Bare Metal	Bare metal capabilities that eliminate virtualization overhead