

Upgrade2Architect Program

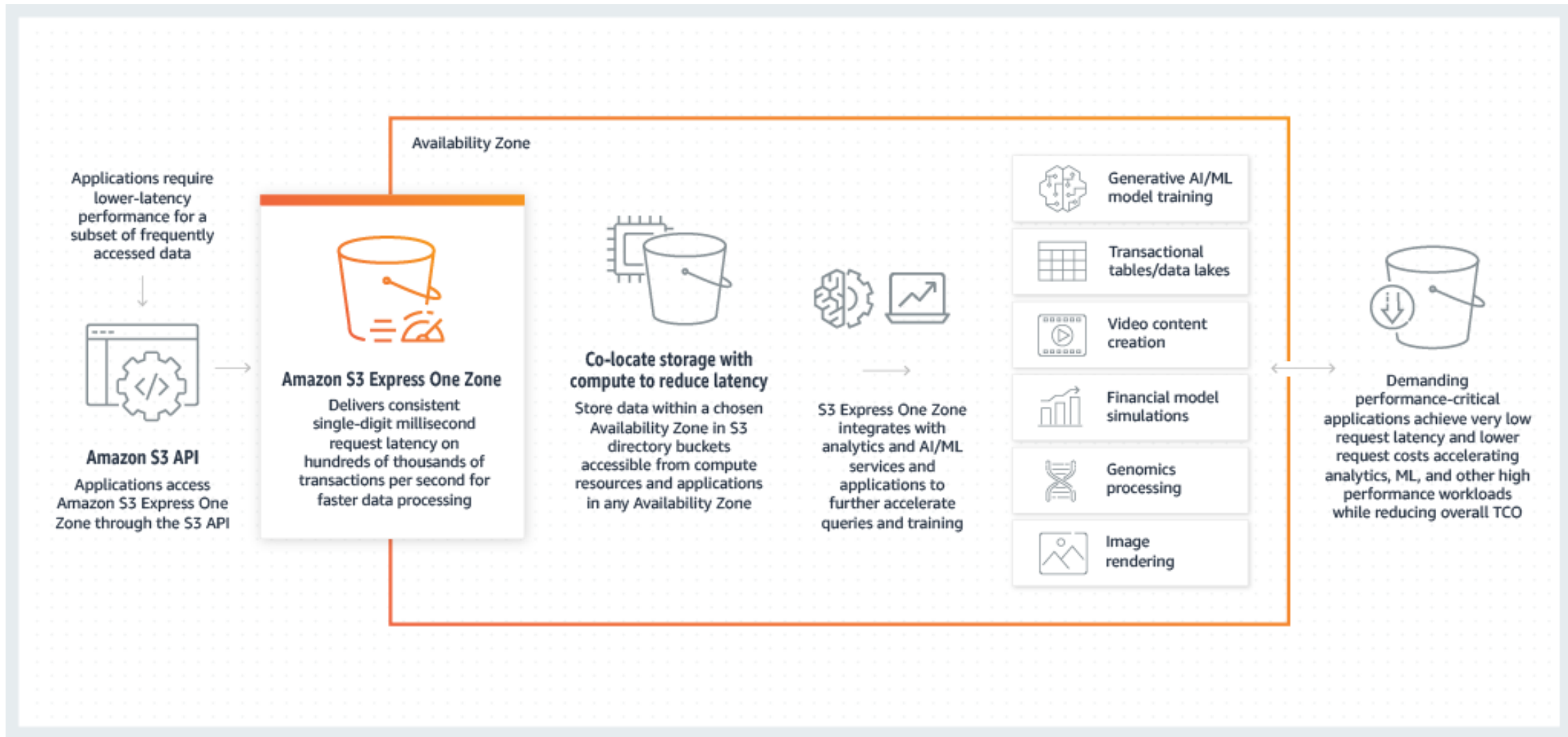
Session #4

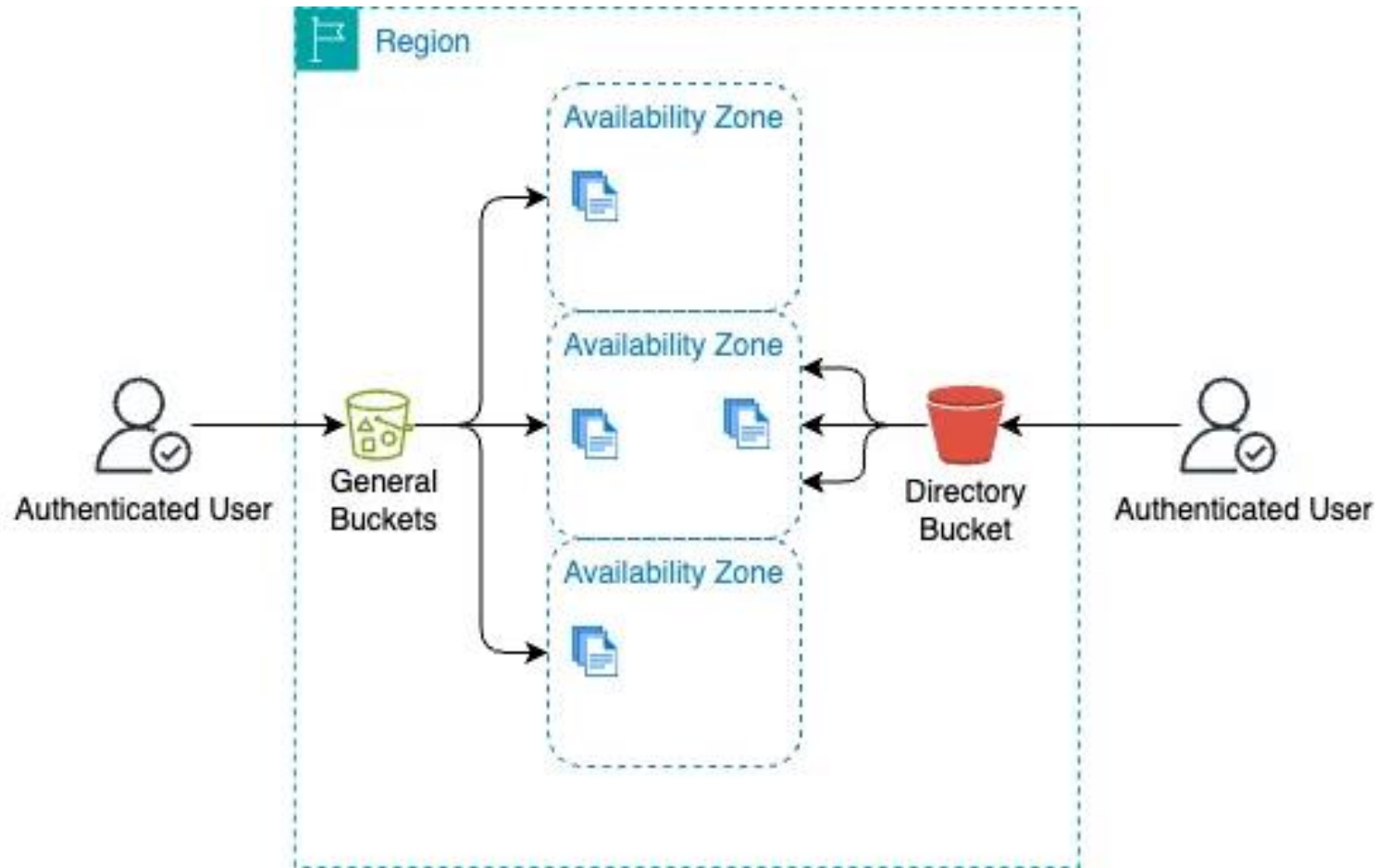
Tools and Techniques

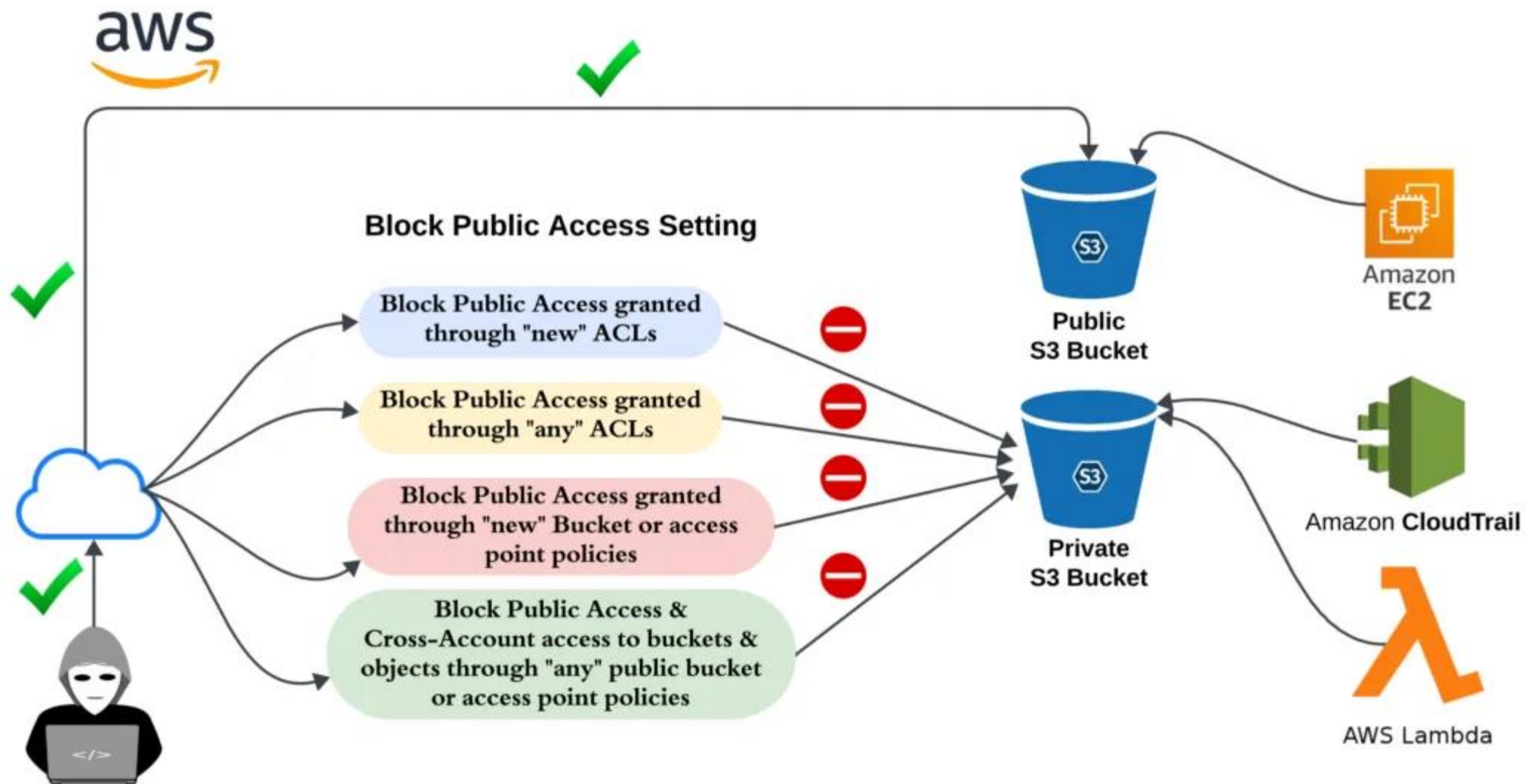
EMPOWERING High Performance
Technology Teams

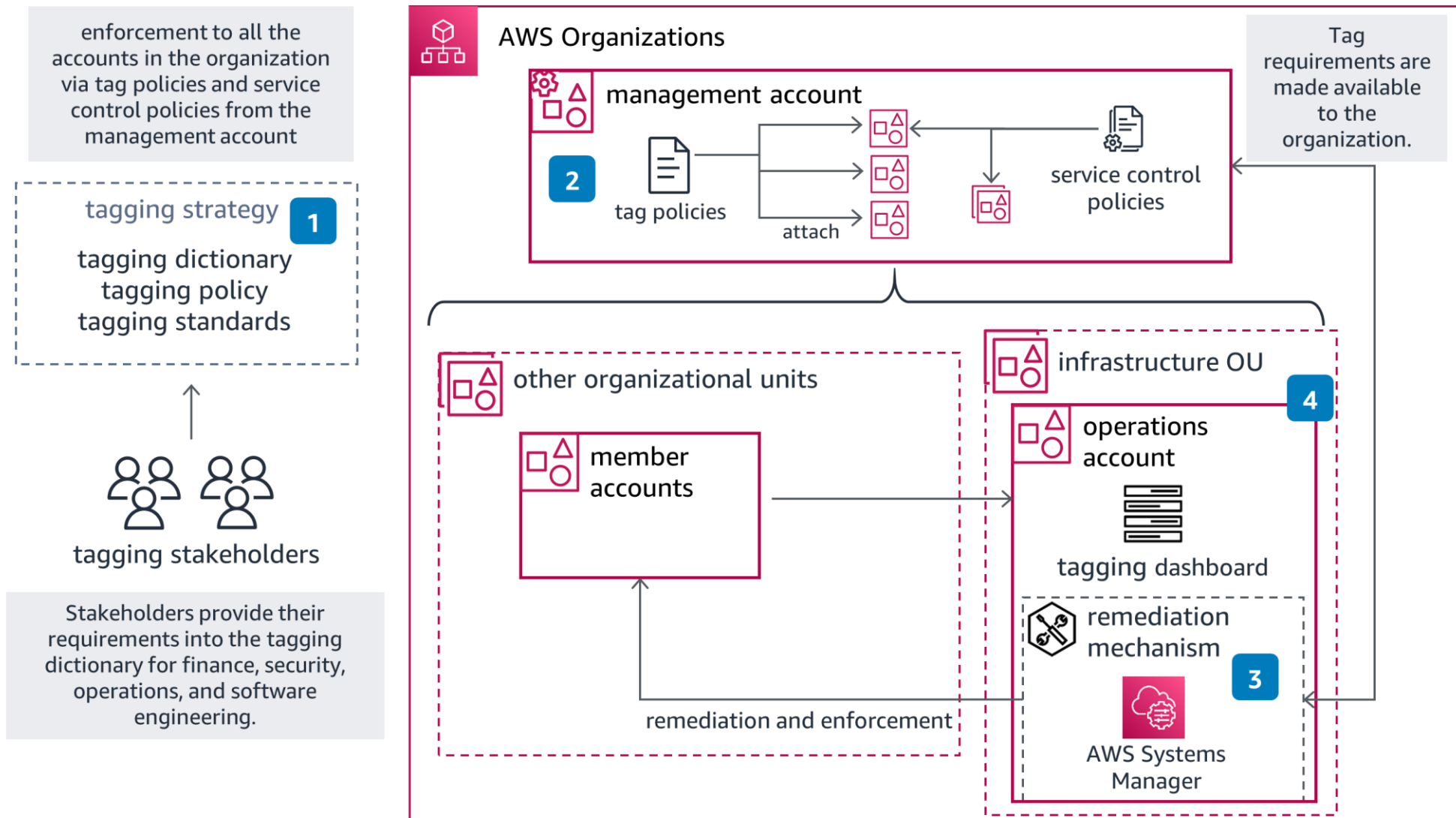
Agenda for the Day

S.No.	Schedule	Item	Duration
1	09.00 to 09.50 a.m.	Tools and Techniques	50 Mins
2	09.50 to 10.00 a.m.	Break	10 Mins
3	10.00 to 10.40 a.m.	Real time examples on Tools and Techniques	40 mins
4	10.40 to 11.00 a.m.	Interaction Time for Q&A	20 mins



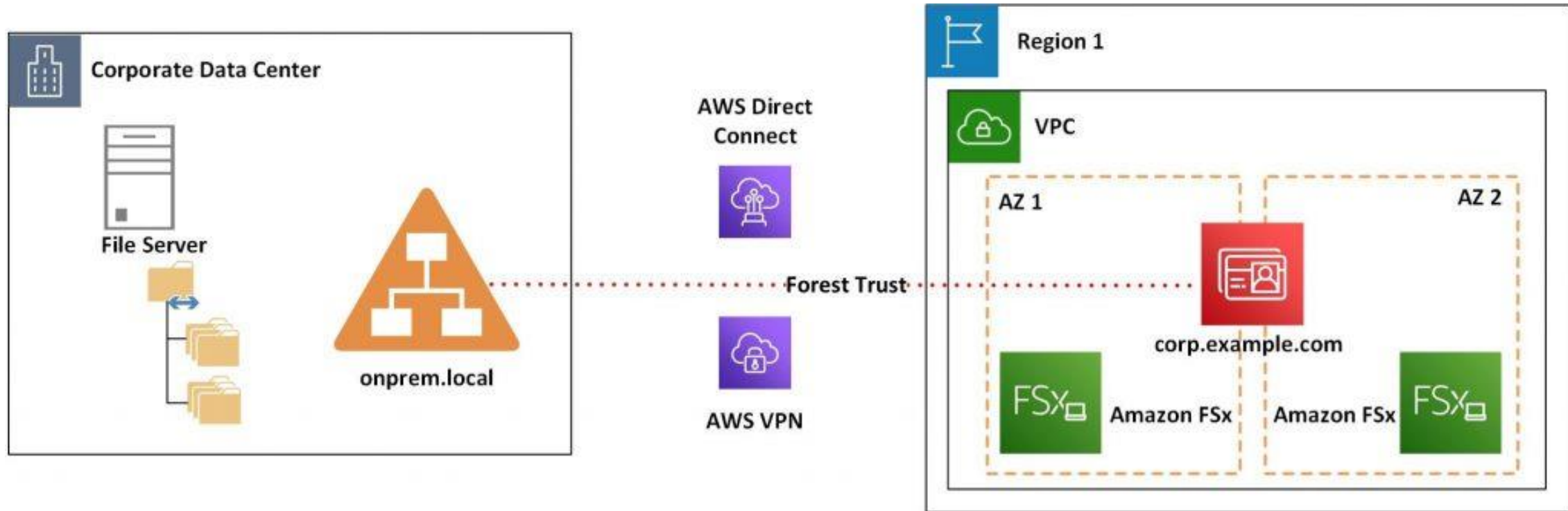






Category	S3	EBS	EFS
Storage Type	Object Storage	Block Storage	File Storage
Pricing	Pay as you Use	Pay for provisioned capacity	Pay as you Use
Storage Size	Unlimited Storage	Limited storage	Unlimited Storage
Scalability	Unlimited Scalability	Increase/decrease size manually	Unlimited Scalability
Durability	Stored redundantly across multiple Azs	Stored redundantly in a Single AZ	Stored redundantly across multiple Azs
Availability	Max is 99.99% with S3 Standard	99.99%	No SLAs
Security	Supports Data at Rest and Data in Transit encryption	Supports Data at Rest and Data in Transit encryption	Supports Data at Rest and Data in Transit encryption
Back up and Restore	Use Versioning or cross-region replication	Automated Backups and Snapshots	EFS to EFS replication
Performance	Slower than EBS and EFS	Faster than S3 and EFS	Faster than S3, Slower than EBS
Accessibility	Publicly and Privately accessible	Accessible only via the attached EC2 instance	Accessible simulatenously from multiple EC2 and on-premises instance
Interface	Web Interface	File System Interface	Web and File System Interface
Use cases	Media, Entertainment, Big data analytics, backups and archives, web serving and content management	Boot volumes, transactional and NoSQL databases, data warehousing ETL	Media, Entertainment, Big data analytics, backups and archives, web serving and content management, home directories

Storage class	Designed for	Durability (designed for)	Availability	Availability zones	Other considerations
EFS Standard	Frequently accessed data requiring the highest durability and availability.	99.999999999% (11 9's)	99.99%	>=3	None
EFS Standard–Infrequent Access (IA)	Long lived, infrequently accessed data requiring the highest durability and availability.	99.999999999% (11 9's)	99.99%	>=3	Per GB retrieval fees apply.
EFS One Zone	Frequently accessed data that doesn't require highest levels of durability and availability.	99.999999999% (11 9's)*	99.90%	1	Not resilient to the loss of the Availability Zone.
EFS One Zone-IA	Long lived, infrequently accessed data that doesn't require highest levels of durability and availability.	99.999999999% (11 9's)*	99.90%	1	Not resilient to the loss of the Availability Zone. Per GB retrieval fees apply.



THANK YOU