

Hybrid Storage Solution with AWS Storage Gateway

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AWS
User Groups



About Me

- André Vidigal
- In IT field since 2017!
- AWS Cloud consultant on tecRacer since 2022
- AWS Journey around the same time
- Last AWS service I worked on...

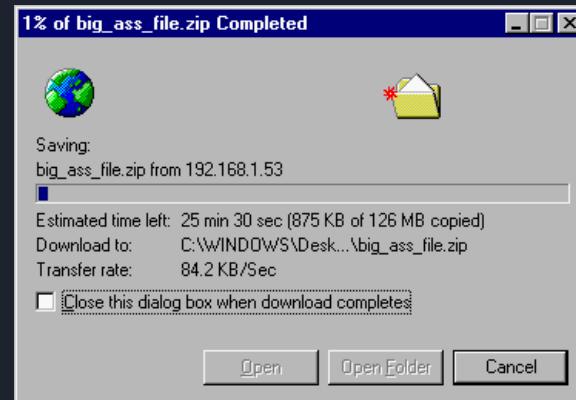


The Problem

THE GOOD, THE BAD AND THE UGLY

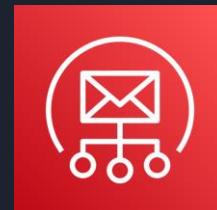
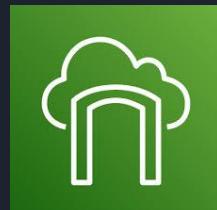
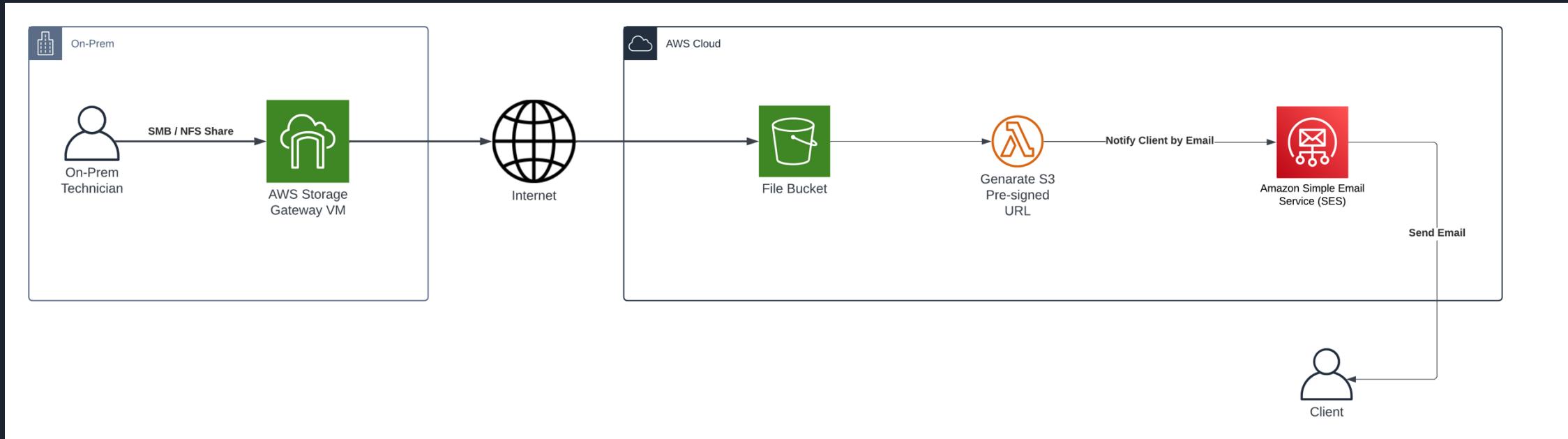
"We need to store our big files somewhere and allow our clients to download them"

- Storage issues
- Uploading speeds
- Notify over email



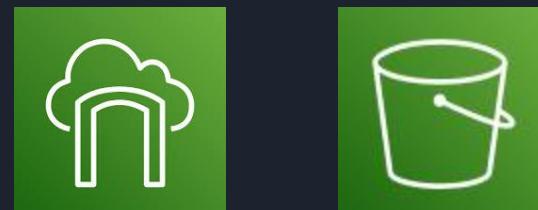
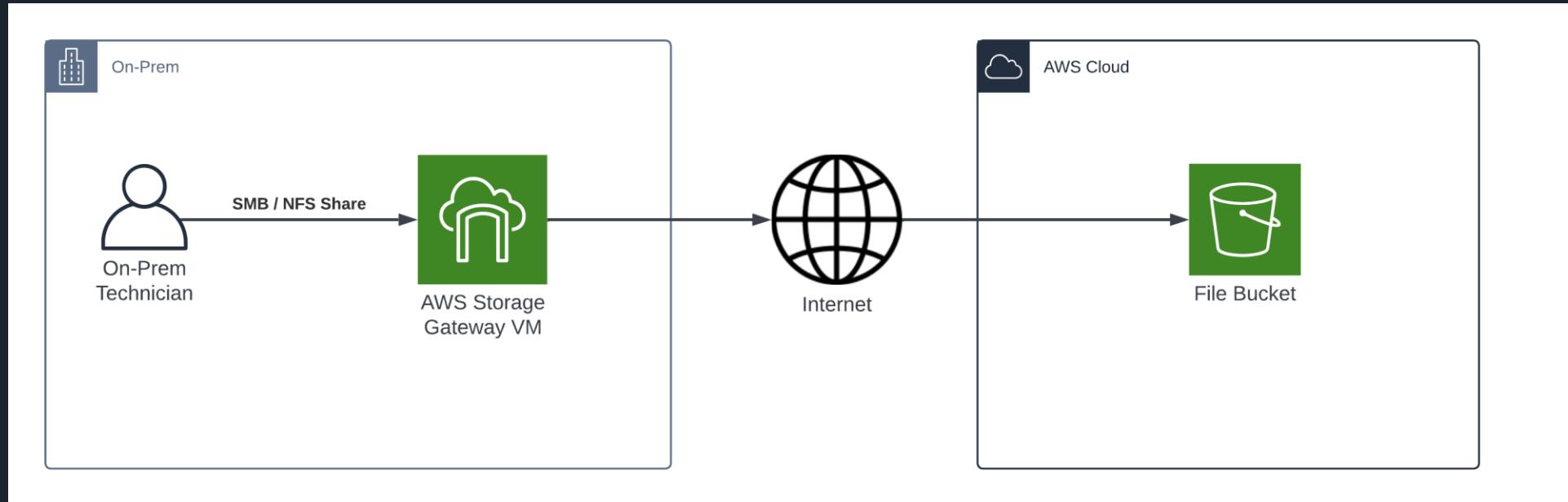
The Solution

TIME TO ARCHITECT



The Storage Part

EXTEND YOUR ON-PREM STORAGE



The Storage Part

EXTEND YOUR ON-PREM STORAGE

Gateway options [Info](#)

Gateway type

Amazon S3 File Gateway
Store and access objects in Amazon S3 from NFS or SMB file data with local caching.



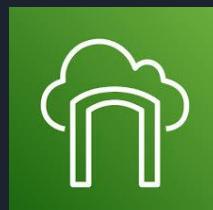
Amazon FSx File Gateway
Access fully managed file shares in Amazon FSx for Windows File Server using SMB.



Tape Gateway
Store virtual tapes in Amazon S3 using iSCSI-VTL, and store archived tapes in Amazon S3 Glacier Flexible Retrieval or Amazon S3 Glacier Deep Archive.



Volume Gateway
Store and access iSCSI block storage volumes in Amazon S3.



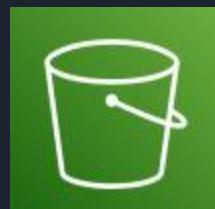
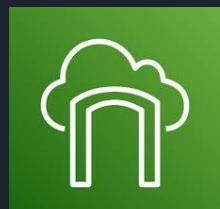
The Storage Part

EXTEND YOUR ON-PREM STORAGE

Platform options Info

Host platform

- VMware ESXi
- Microsoft Hyper-V
- Linux KVM
- Amazon EC2
- Hardware appliance



The Storage Part

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Gateway connection options

Connection options
Use the gateway's IP address if it's accessible from your web browser. If the IP address isn't accessible, try using an activation key.

IP address
Your gateway's IP address must be public or accessible from within your current network. Your web browser must be able to connect to this IP address.

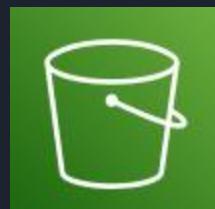
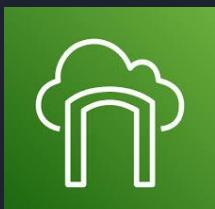
Activation key

Endpoint options Info

Service endpoint
Choose whether the endpoint is publicly accessible or hosted inside your VPC.

Publicly accessible
Your gateway communicates with AWS over the public internet.

VPC hosted
Accessible within your Virtual Private Cloud (VPC) only. Your gateway communicates with AWS through a private connection with your VPC, allowing you to control your network settings.



The Storage Part

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Basics

Gateway

UG-11-07 (sgw-35C70D5C)

File share protocol

NFS
Standard for Linux environments.

SMB
Standard for Windows environments.

S3 bucket

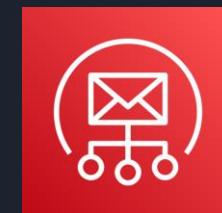
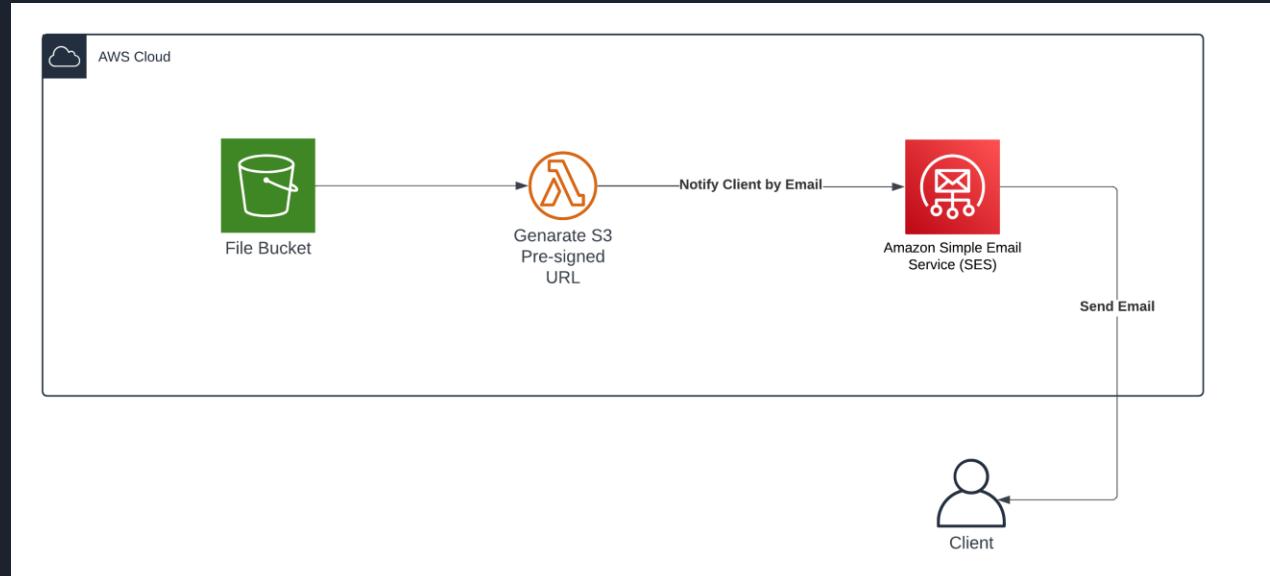
sgw-2024-07-11
7/9/2024 eu-west-1 Versioning Disabled

Create a new S3 bucket



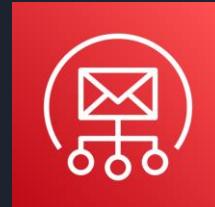
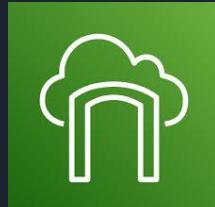
The Sending part

LEVERAGE THE POWER OF SERVERLESS TO SEND FILES EFFORTLESSLY



Lambda Code

Demo – Sending Files with Storage Gateway



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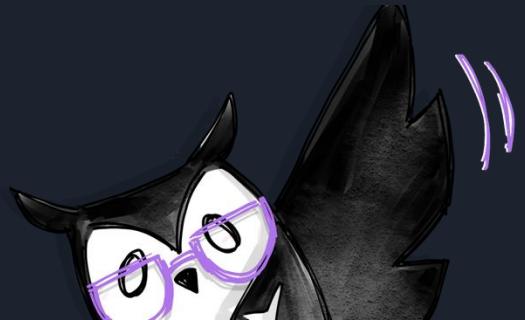
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Key Take Aways

WHAT WE LEARNED

- Using the Cloud doesn't have to mean "everything on the Cloud"
- Storage size is just a number ;)
- K.I.S.S – Keep It Simple Stupid!
- Serverless! – Think less about servers



Thank you!

Q&A Time



LinkedIn

