

1. What happens if you lose your ssh KeyPair file?

One would need to login to the root and get past password authentication, followed by copying a new public key from your new key pair. Lastly, set your new public key back to public key authentication only. **Essentially, create a new key pair and replace it in the existing instance.**

Sources Visited:

- ❖ <https://www.digitalocean.com/community/questions/what-happens-if-you-loose-your-ssh-key>
- ❖ <https://aws.amazon.com/premiumsupport/knowledge-center/recover-access-lost-key-pair/>

2. What happens to existing instances which were started with the lost ssh key?

The steps needed to be taken in order to resolve this would be:

1. Stop the instance in question
2. Create a snapshot of the instance
3. Create a duplicate instance from the snapshot
4. Create a new Key Pair.

One is not able to log in to the new instance (which is identical to the original instance) by utilizing the new key pair. Once this process is complete, one can terminate the old instance to complete the process.

Source Visited:

- ❖ <https://forums.aws.amazon.com/thread.jspa?threadID=102074>

3. What are the advantages of utilizing cloud Volumes? Briefly describe at least two scenarios, where using volumes simplifies working with cloud instances.

The Problem:

You want to migrate more and more on-premises workloads to the public cloud, yet you're faced with differences in file formats, slow file-storage performance and the threat of inconsistent data. All for an economical price... Typically people would look to a public cloud to solve all these problems, but it ends up forcing you to decide between high performance and data consistency.

A Solution:

Utilizing Cloud Volumes...

- cloud service enabling file services, analytics, DevOps, and enterprise applications
- multi-protocol cloud volumes with the performance and advanced features to run *any* workload
- all these tasks are able to be done where scalability is not an issue

Advantages of Utilizing Cloud Volumes...

- Native Integration
 - The goal that is satisfied through this advantage being no separate processes or disruptions when using Cloud Volumes.
- Ease of Use
 - nothing needs to be installed or configured
 - you are able to schedule snapshots of your Cloud Volumes, restore and do a one-time migration to the cloud or continuously keep your data in sync – with no added complexity
 - no more worrying about data management, you can focus on your initial intentions
- High Performance
 - you only pay for what you consume, which provide for flexible cost packages

1. simplify the deployment of cloud-based file services
2. simplify the deployment of database environments
3. simplify the deployment of analytics clusters

Sources Visited:

- ❖ <https://blog.netapp.com/top-3-reasons-to-use-netapp-cloud-volumes-for-aws/>
- ❖ https://www.netapp.com/us/media/wp-14015-na-what-are-cloud-volumes.pdf?ref_source=netappwebpromobanner&cid=26407