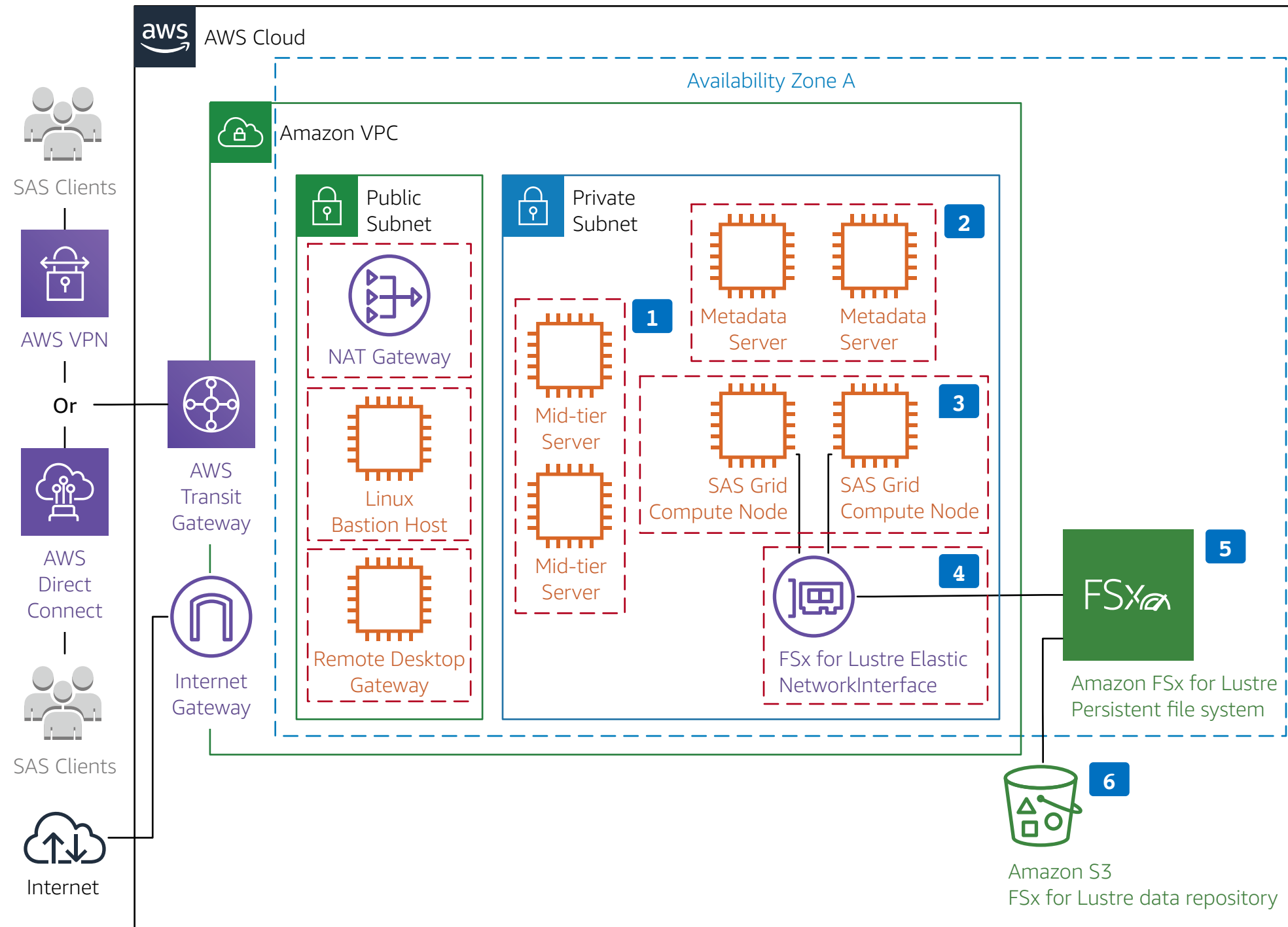


Running SAS® Grid on AWS

Reference architecture for deploying high-performing Amazon FSx for Lustre file system storage and guidance for the types of Amazon EC2 instances best suited for the SAS Grid compute tier.



- 1 For mid-tier servers, select **Amazon EC2 r5 instance types** to run Platform Web Services (PWS) and the Load Sharing Facility (LSF) client. Using two or more instances is not a SAS requirement unless you require High Availability (HA).
- 2 For metadata servers, select **Amazon EC2 r5 instance types** that meet or exceed minimum recommendations from SAS. Memory: the larger of 8 GB per physical core or 24 GB. Using three or more is not a SAS requirement unless you require HA.
- 3 For SAS Grid compute nodes running the LSF platform, select **Amazon EC2 instance types** that meet or exceed minimum recommendations from SAS. Memory: 8 GB per physical core. File system performance (network for **Amazon FSx for Lustre**): 100-125 MB/s per physical core. We recommend the **Amazon EC2 m5n and r5n instance types** if hosting /SASDATA, /SASWORK, and /UTILLOC on **Amazon FSx for Lustre**. Use **i3en instance types** if offloading /SASWORK to local instance store volumes.
- 4 The **Amazon FSx for Lustre** file system is accessible through an elastic network interface that resides in your virtual private cloud (VPC). Use standard **Amazon VPC** security groups to control network access to your **Amazon FSx for Lustre** file system.
- 5 Use **Amazon FSx for Lustre** persistent file systems for all SAS Grid libraries, including /SASDATA, /SASWORK, and /UTILLOC. **Amazon FSx for Lustre** is a fully managed open-source Lustre file system capable of hundreds of gigabytes per second throughput, millions of IOPS, and submillisecond latencies.
- 6 **Amazon FSx for Lustre** integrates with **Amazon S3**. Optionally, associate an S3 bucket to a file system to export persistent /SASDATA directories to a data repository in **Amazon S3**.

