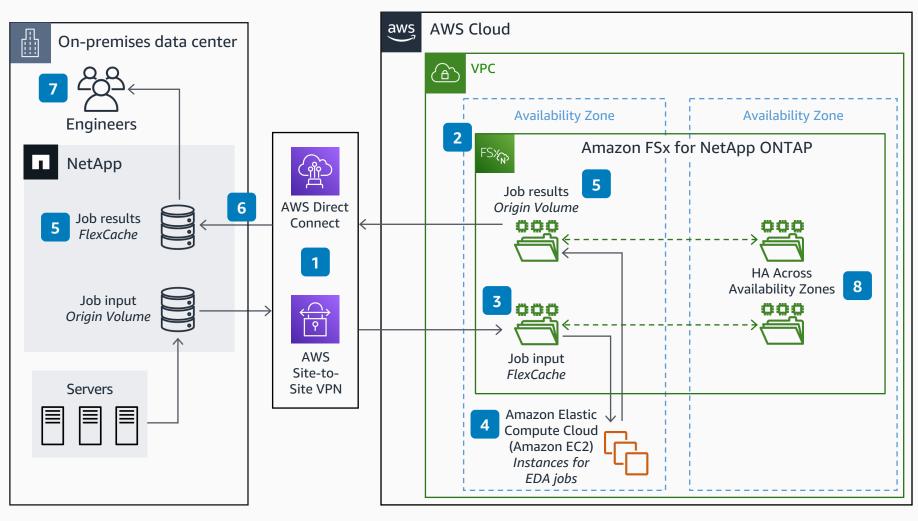
Cloud bursting EDA with FSx for NetApp ONTAP

Enable Electronic Design Automation (EDA) cloud-bursting with bidirectional caching of job data Engineers working on-premises can burst jobs to AWS and quickly access the results



- Establish fast, secure networking between onpremises data center and AWS with AWS Direct Connect (for production) or optionally with AWS Site-to-Site VPN (for initial testing and/or proof of concept (POC)).
- Deploy Amazon FSx for NetApp ONTAP in AWS and configure cluster peering with the on-premises system.
- FlexCache volume is created in Amazon FSx for NetApp ONTAP and paired with the onpremises origin volume to allow Amazon EC2 instances Network File System (NFS) access to cached data from the on-premises file system.
- 4 EC2 instances run EDA jobs using the local FlexCache volume. Required file-blocks are loaded on demand and cached in AWS.

 Output is written to a local output origin volume in the Cloud.
- Within the on-premises NetApp system, a FlexCache volume is created and paired with the Amazon FSx for NetApp ONTAP origin volume, enabling access to output data in the on-premises data center.
- Only data read by users is fetched from the origin volume in AWS, minimizing bandwidth utilization.
- Multiple engineers/users accessing the same files in on-premises FlexCache volume, or users accessing the files multiple times, receive the file from the local cache.
- B High Availability (HA) is included in Amazon FSx for NetApp ONTAP by leveraging a multi-AZ configuration.