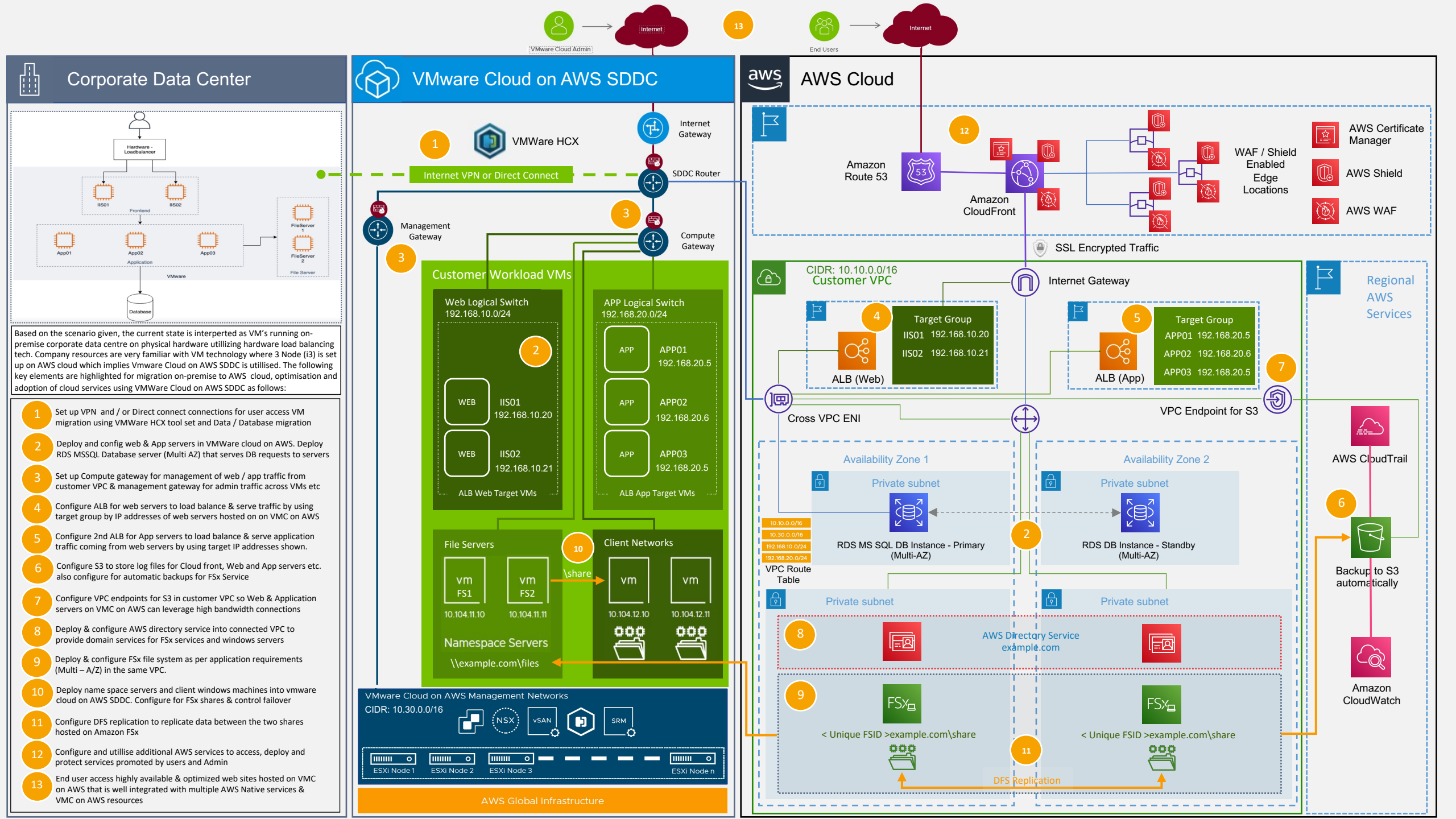

Based on the scenario given, the current state is interperted as VM's running on-premise corporate data centre on physical hardware utillizing hardware load balancing tech. Company resources are very familiar with VM technology where 3 Node (i3) is set up on AWS cloud which implies Vmware Cloud on AWS SDDC is utillised. The following key elements are highlighted for migration on-premise to AWS cloud, optimisation and adoption of cloud services using VMWare Cloud on AWS SDDC as follows:

1. Set up VPN and / or Direct connect connections for user access VM migration using VMWare HCX tool set and Data / Database migration
2. Deploy and config web & App servers in VMWare cloud on AWS. Deploy RDS MSSQL Database server (Multi AZ) that serves DB requests to servers
3. Set up Compute gateway for management of web / app traffic from customer VPC & management gateway for admin traffic across VMs etc
4. Configure ALB for web servers to load balance & serve traffic by using target group by IP addresses of web servers hosted on on VMC on AWS
5. Configure 2nd ALB for App servers to load balance & serve application traffic coming from web servers by using target IP addresses shown.
6. Configure S3 to store log files for Cloud front, Web and App servers etc. also configure for automatic backups for FSx Service
7. Configure VPC endpoints for S3 in customer VPC so Web & Application servers on VMC on AWS can leverage high bandwidth connections
8. Deploy & configure AWS directory service into connected VPC to provide domain services for FSx services and windows servers
9. Deploy & configure FSx file system as per application requirements (Multi – A/Z) in the same VPC.
10. Deploy name space servers and client windows machines into vmware cloud on AWS SDDC. Configure for FSx shares & control failover
11. Configure DFS replication to replicate data between the two shares hosted on Amazon FSx
12. Configure and utillise additional AWS services to access, deploy and protect services promoted by users and Admin
13. End user access highly available & optimized web sites hosted on VMC on AWS that is well integrated with multiple AWS Native services & VMC on AWS resources