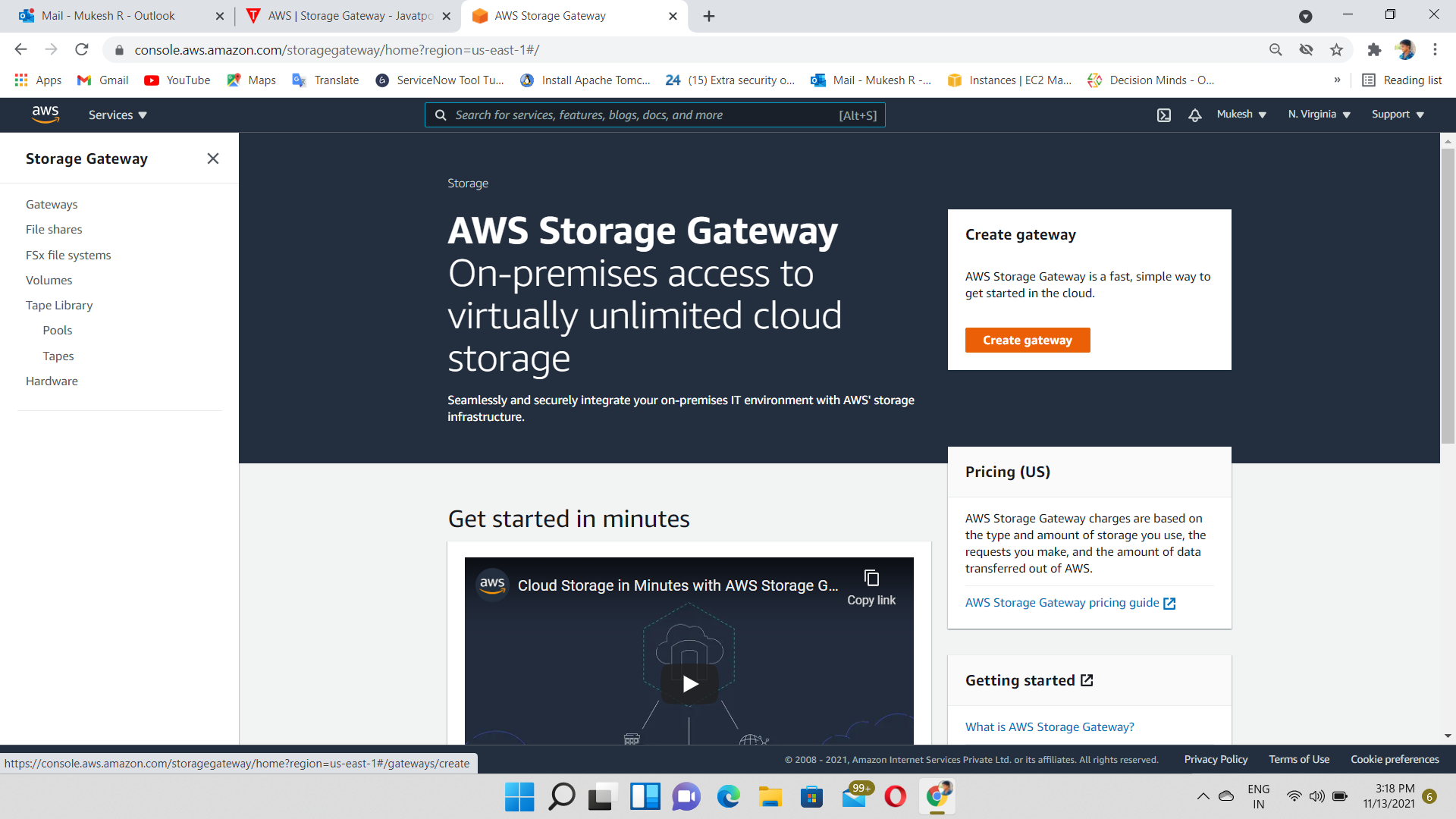
**Storage Gateway**

Storage Gateway is a service in AWS that connects an on-premises software appliance with the cloud-based storage to provide secure integration between an organization's on-premises IT environment and AWS storage infrastructure.

Storage Gateway service allows you to securely store the data in AWS cloud for the scalable and cost-effective storage.

**LAB:**

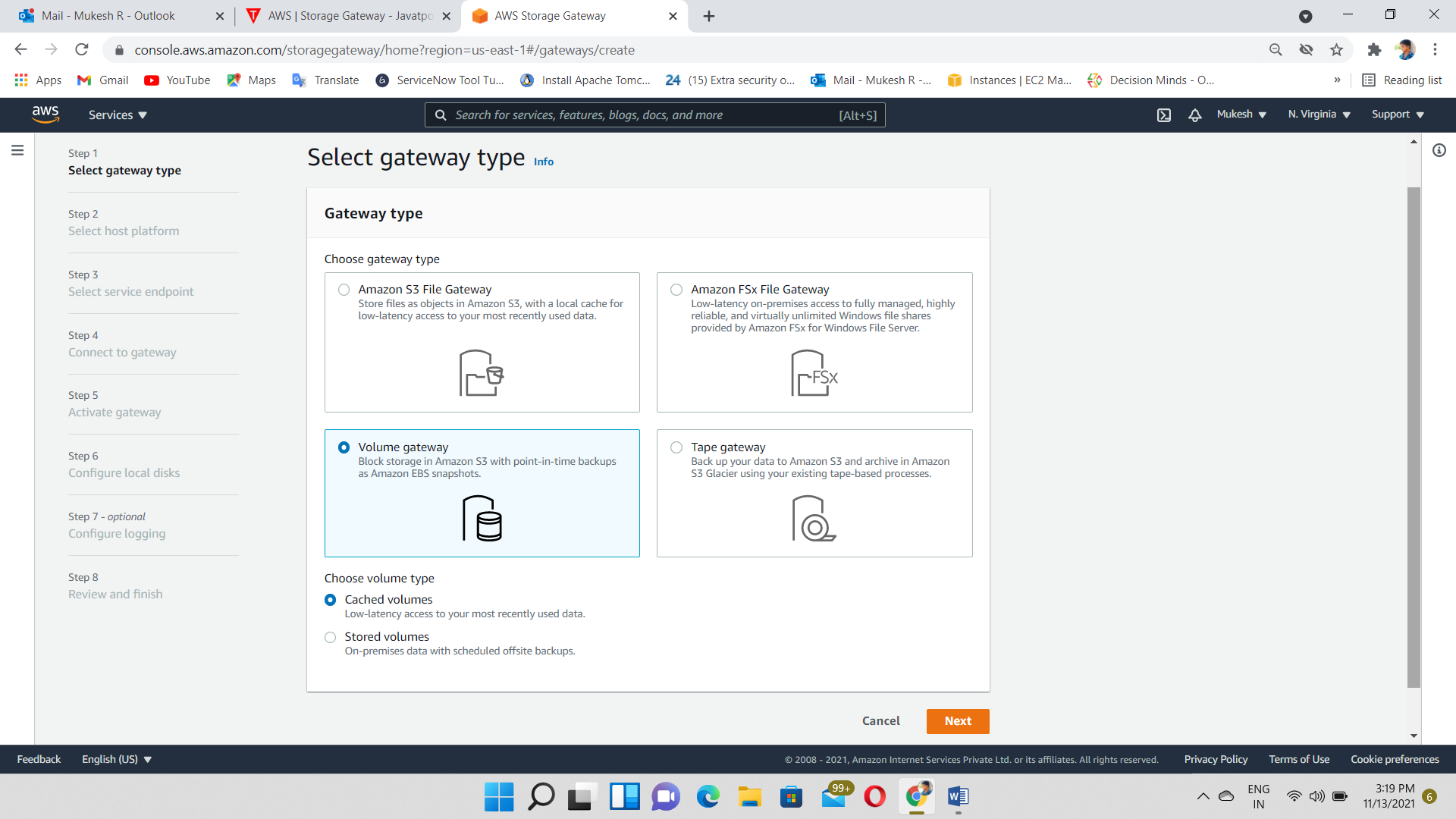
Go to the Storage Gateway Service and Create a Gateway



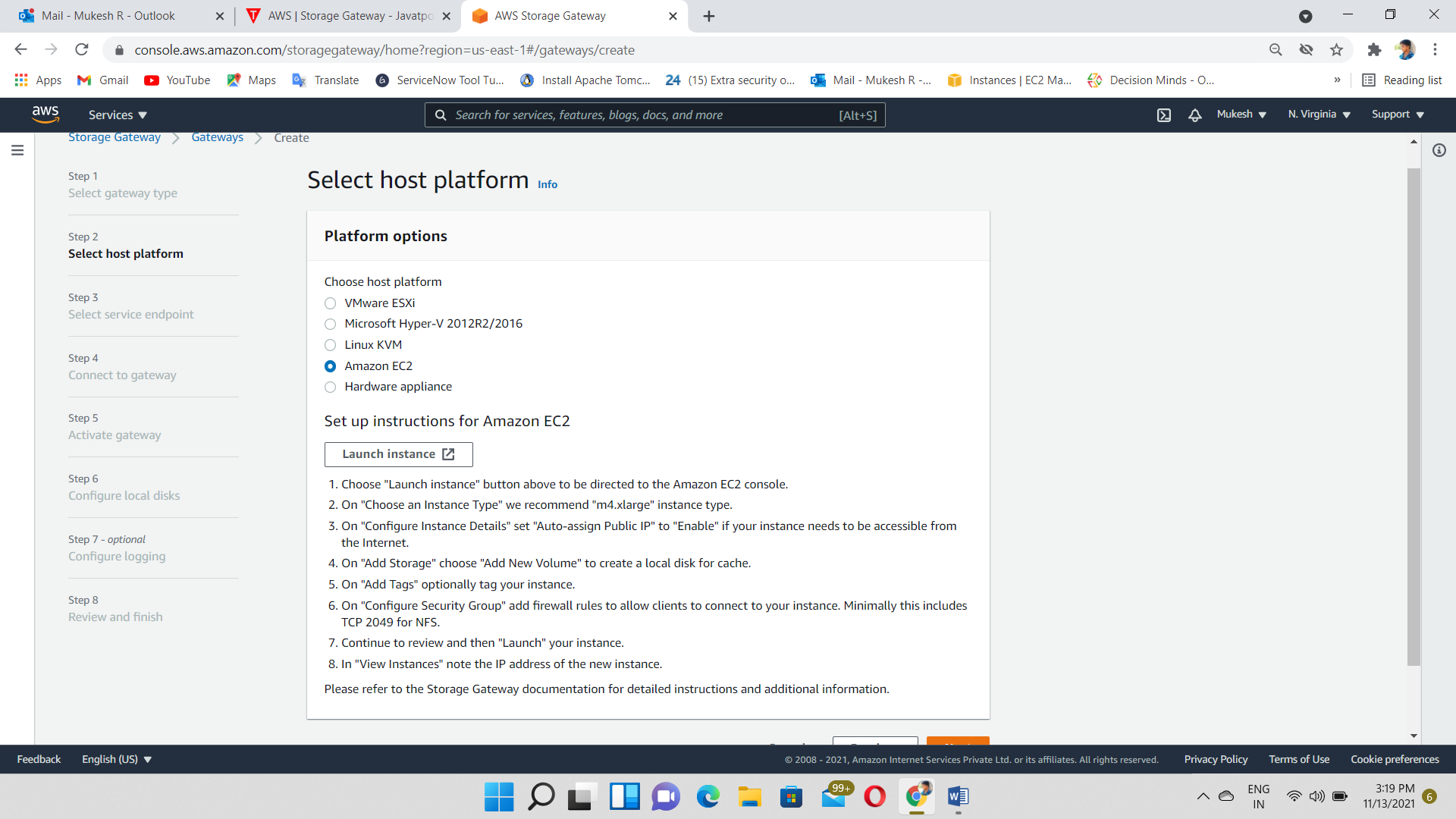
**Select Gateway type🡪Volume Gateway**

Volume Gateway is an interface that presents your applications with disk volumes using the ISCSI block protocol. The iSCSI block protocol is block-based storage that can store an operating system, applications and also can run the SQL Server, database.

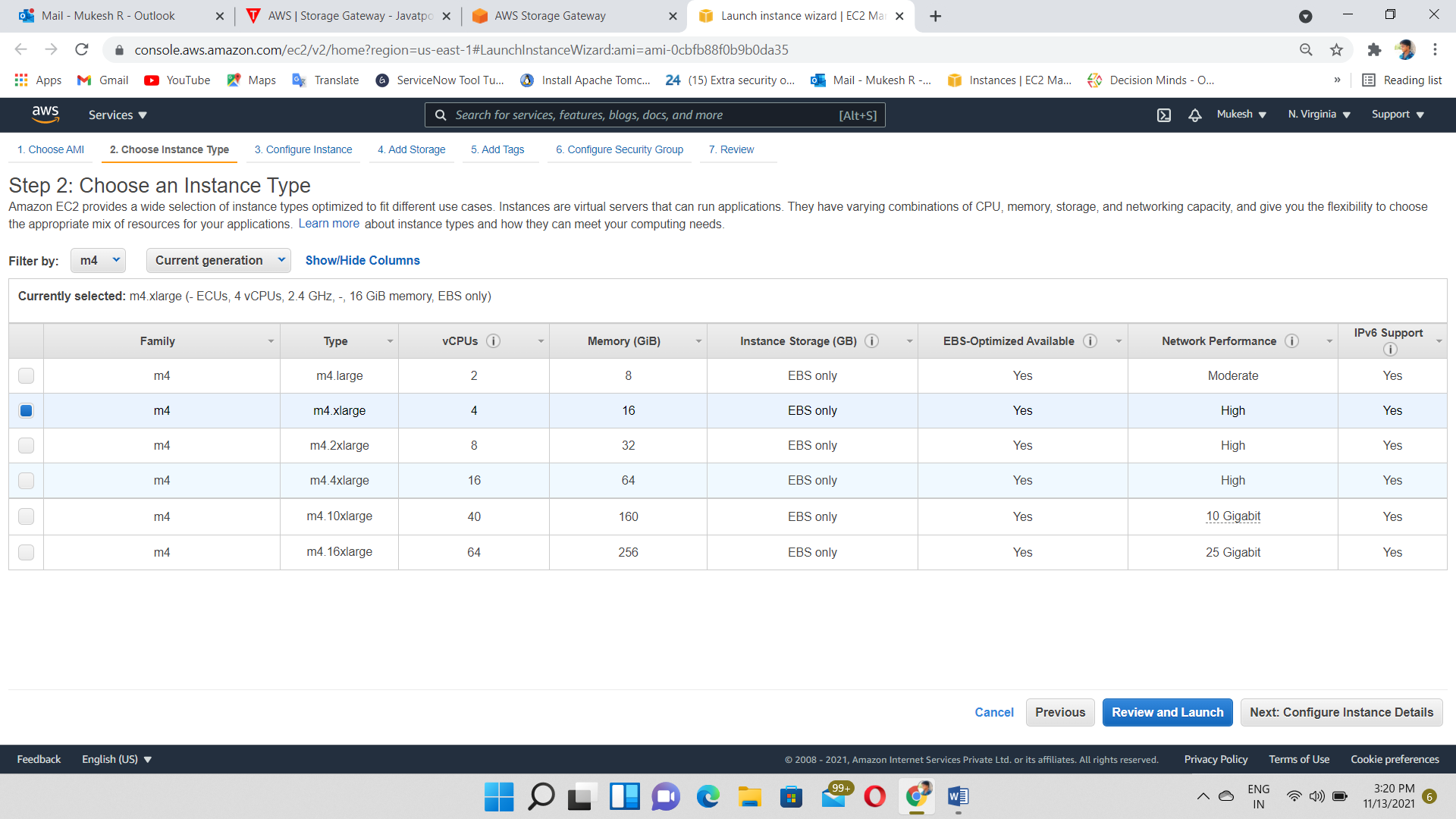
Data written to the hard disk can be asynchronously backed up as point-in-time snapshots in your hard disks and stored in the cloud as EBS snapshots where EBS (Elastic Block Store) is a virtual hard disk which is attached to the EC2 instance.



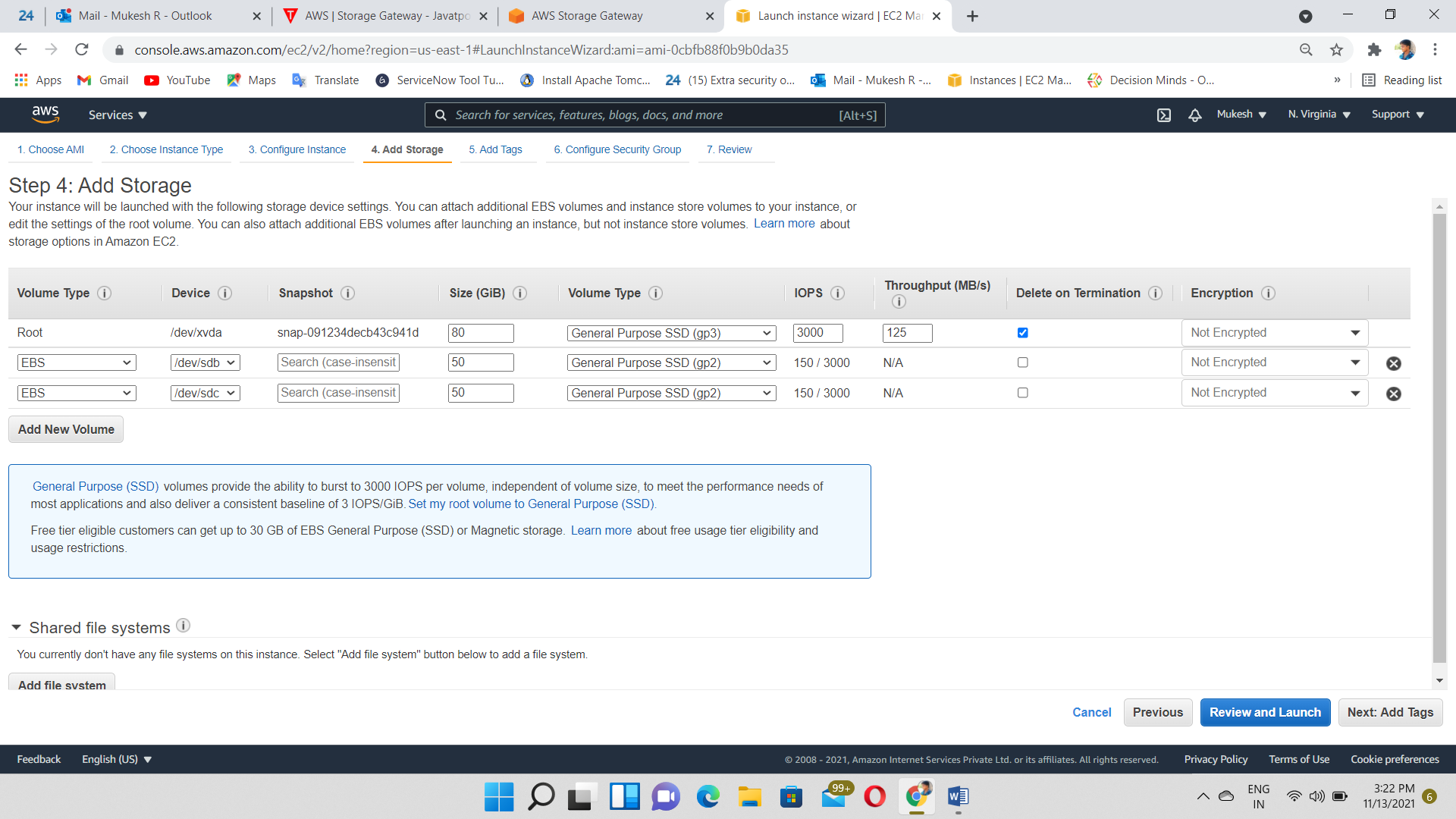
Select Amazon EC2 and Setup instructions for EC2



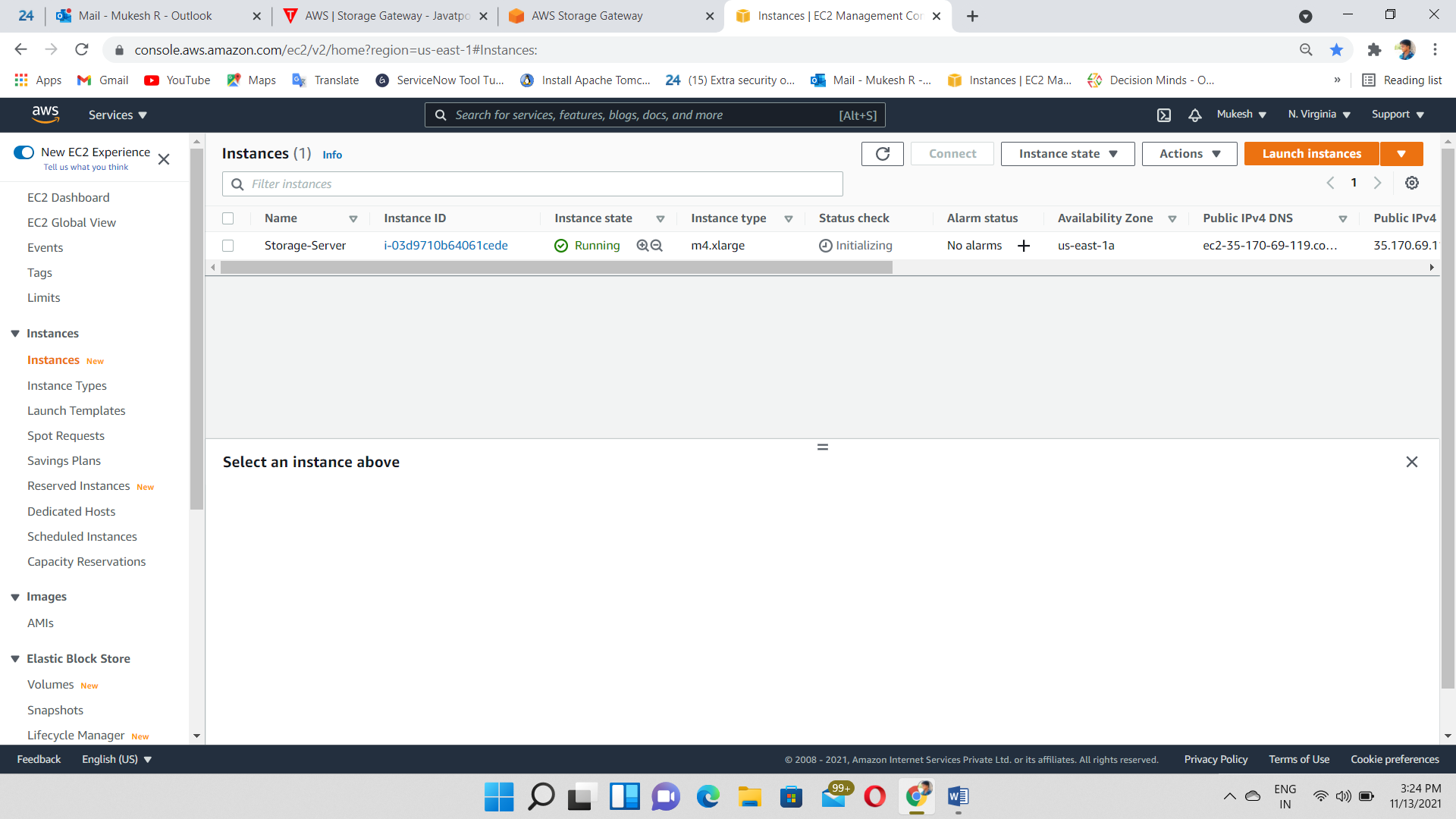
Select m4.xlarge instance type



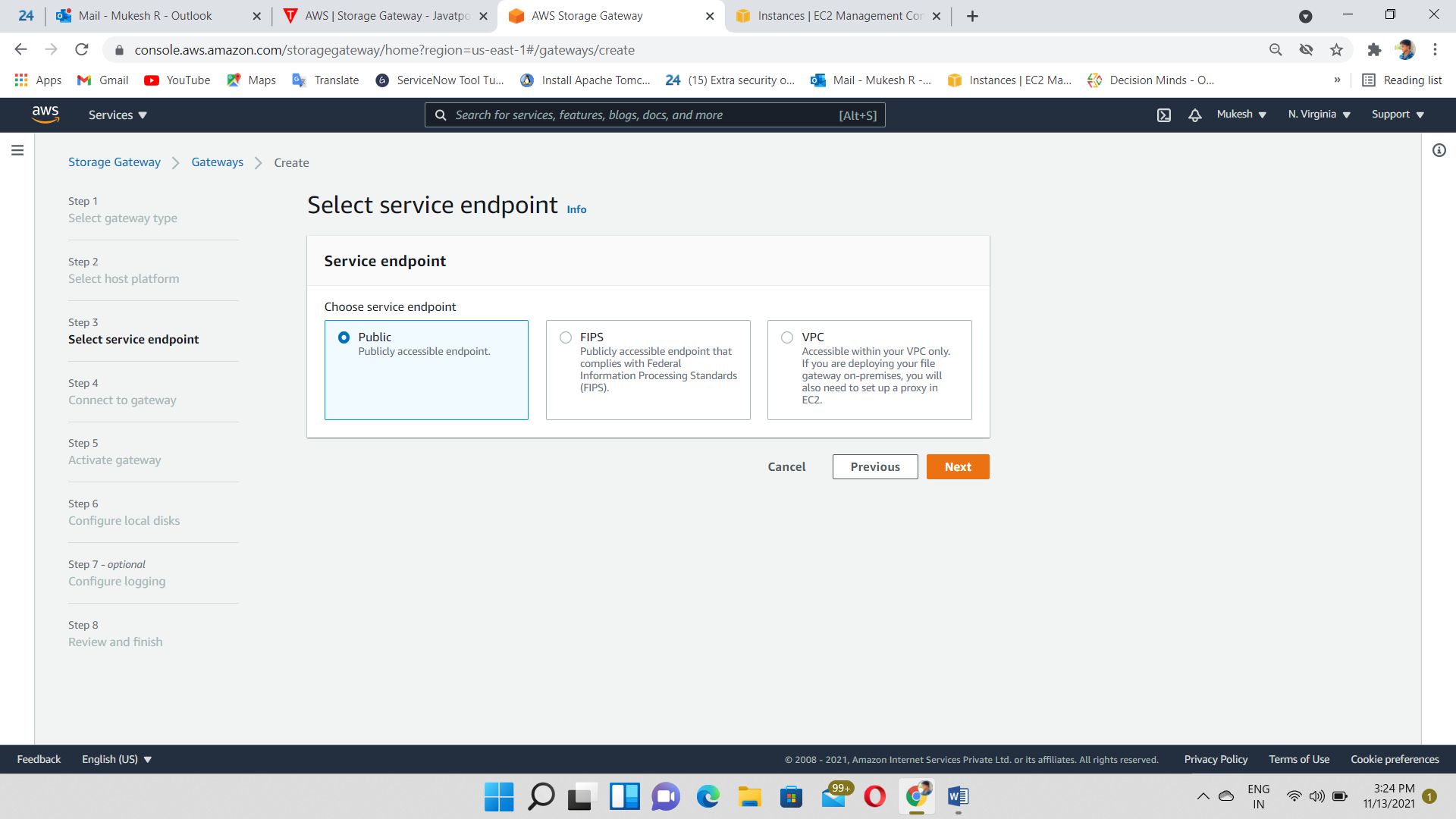
Add 2 more volumes with 50GiB



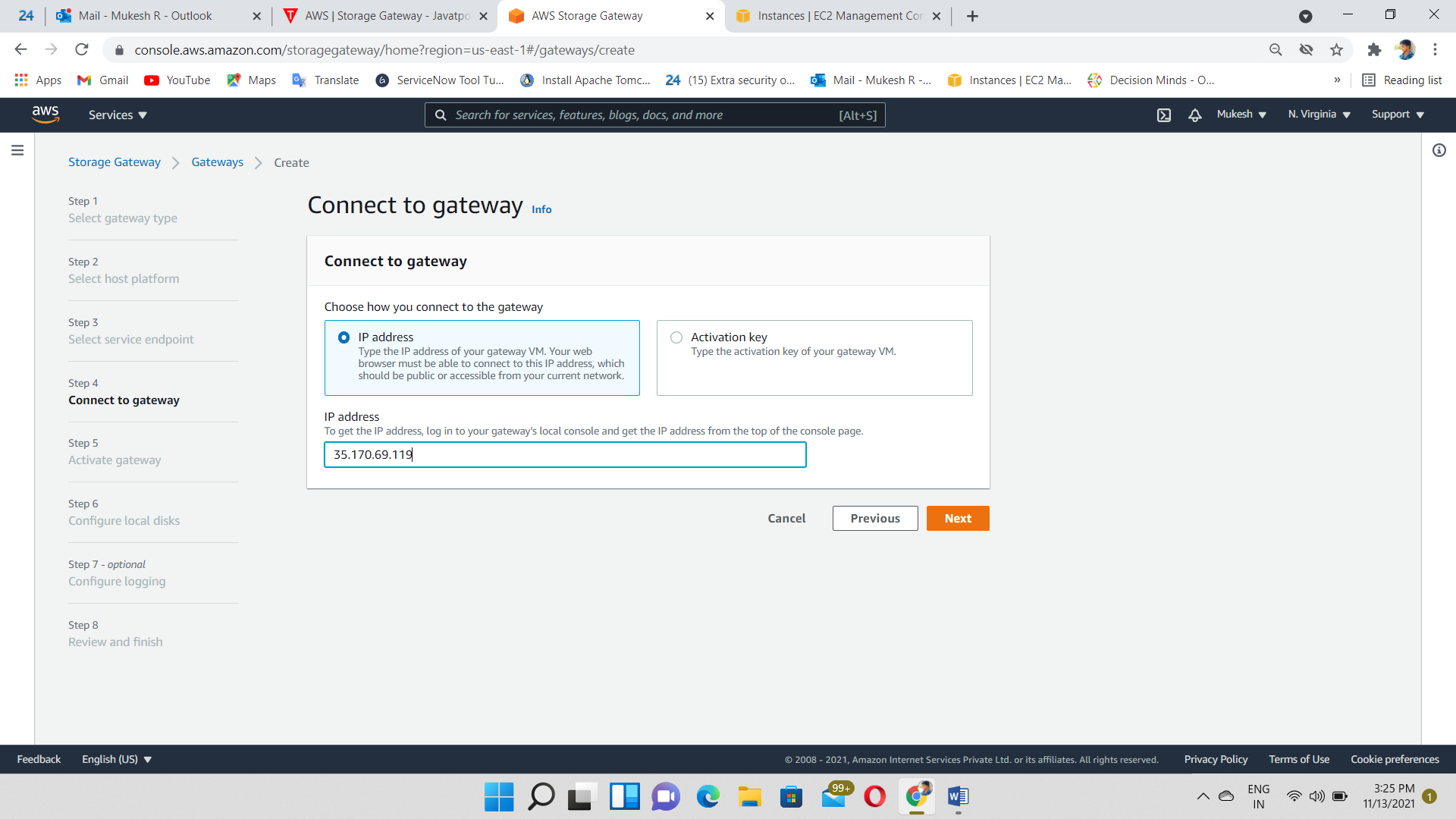
Server instance Created



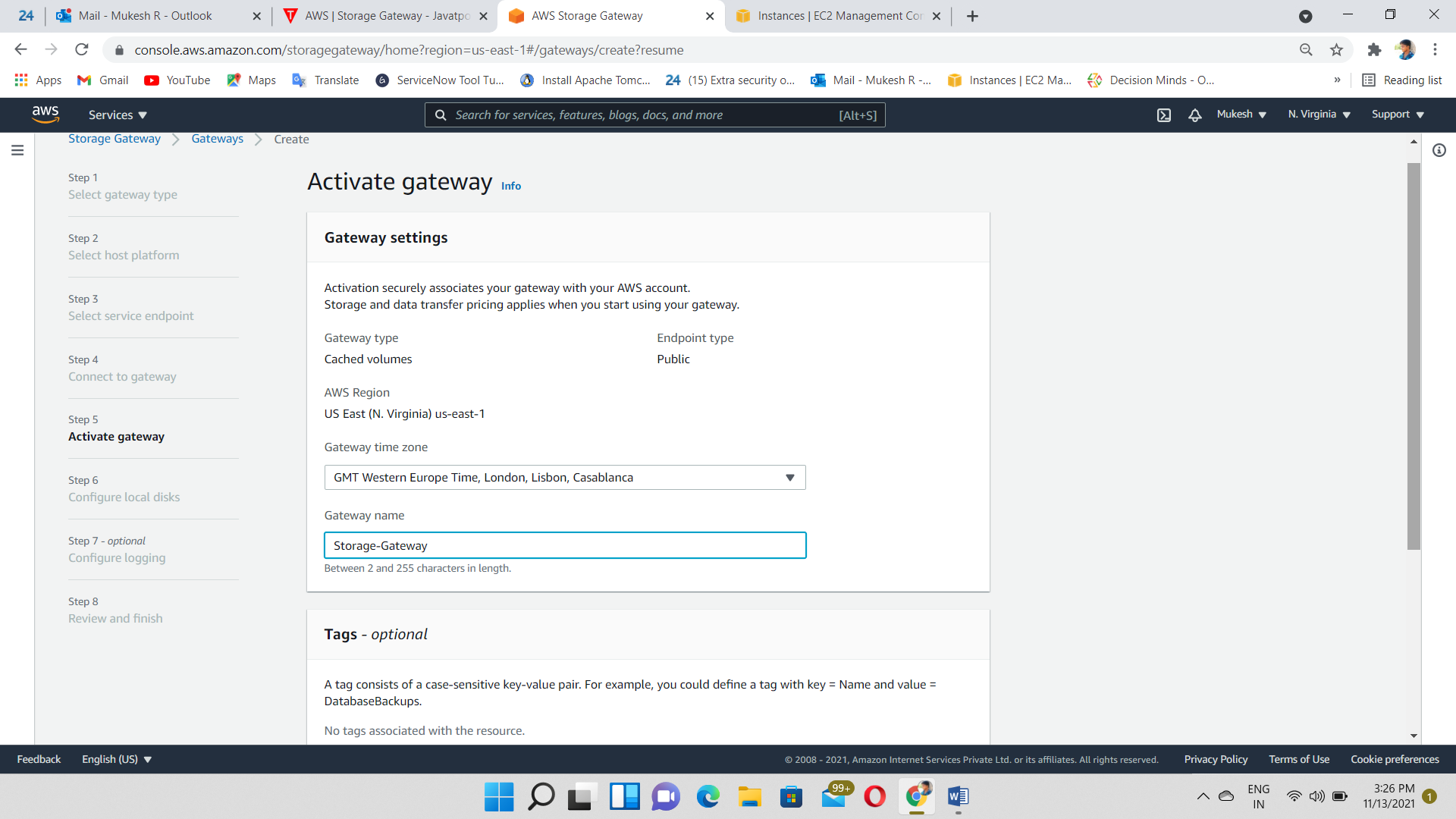
Choose🡪 Public Endpoint



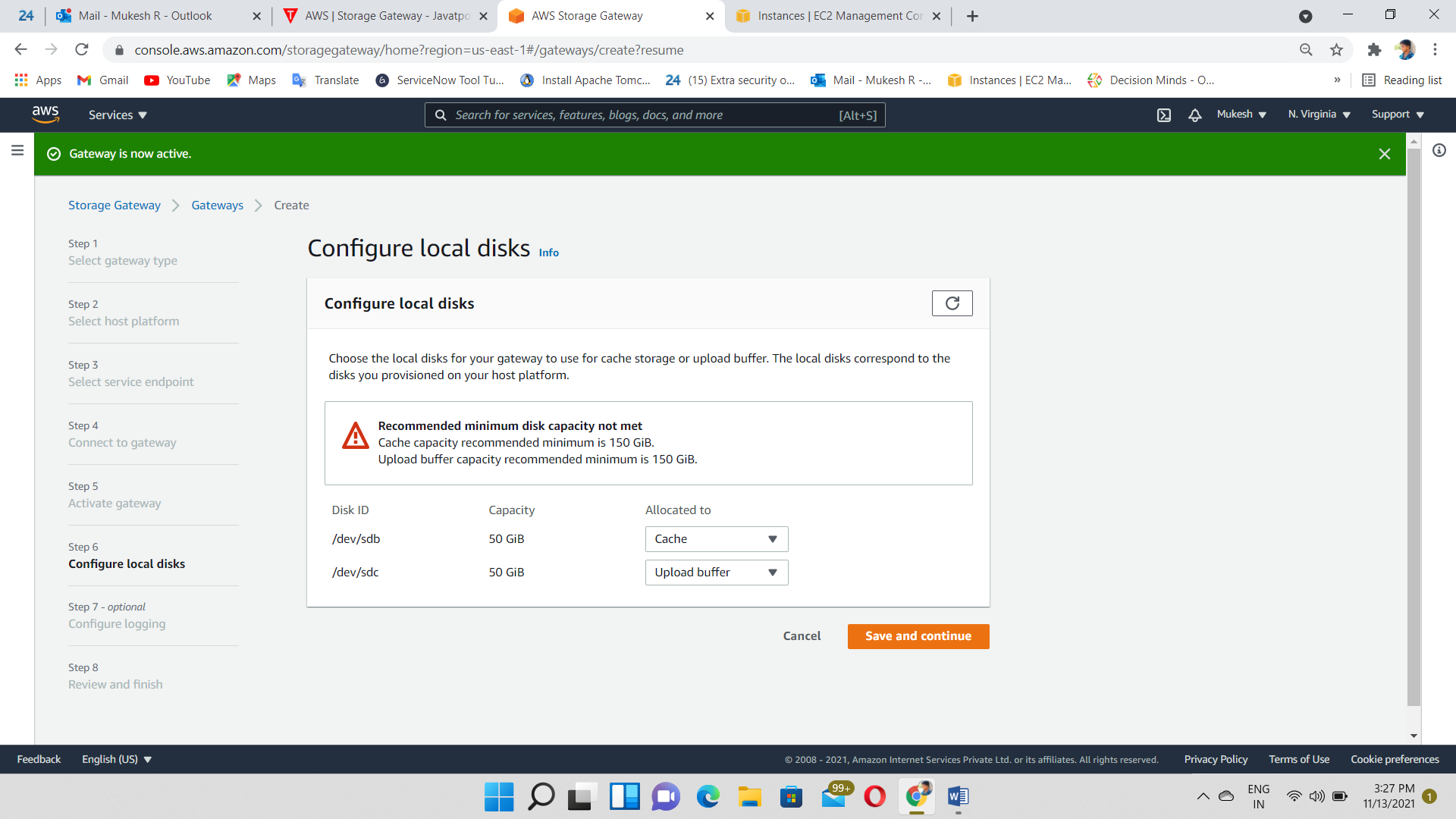
Copy & Paste the Public IP of (storage Gateway)server Instance



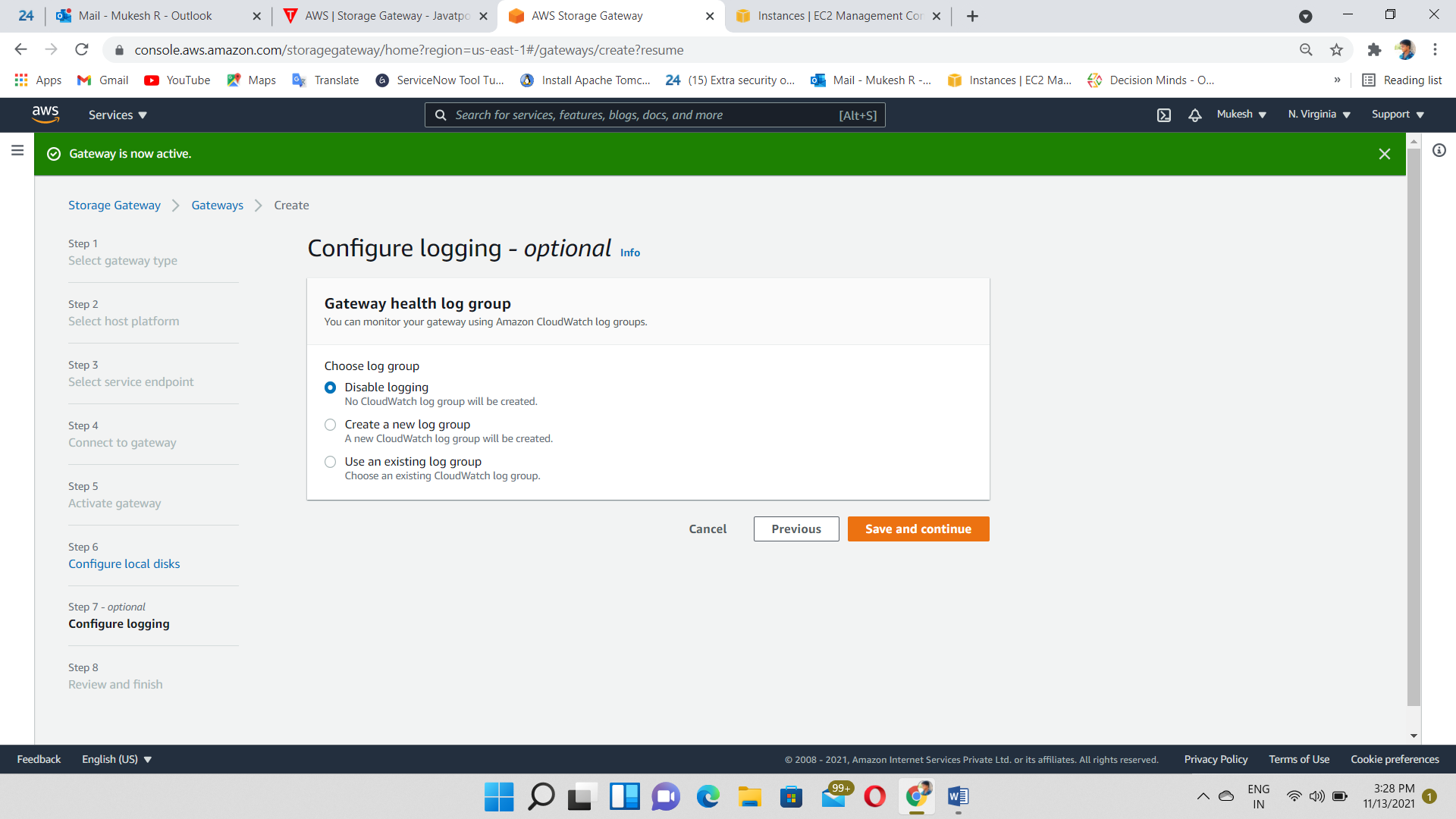
Give Gateway Name and activate the Gateway



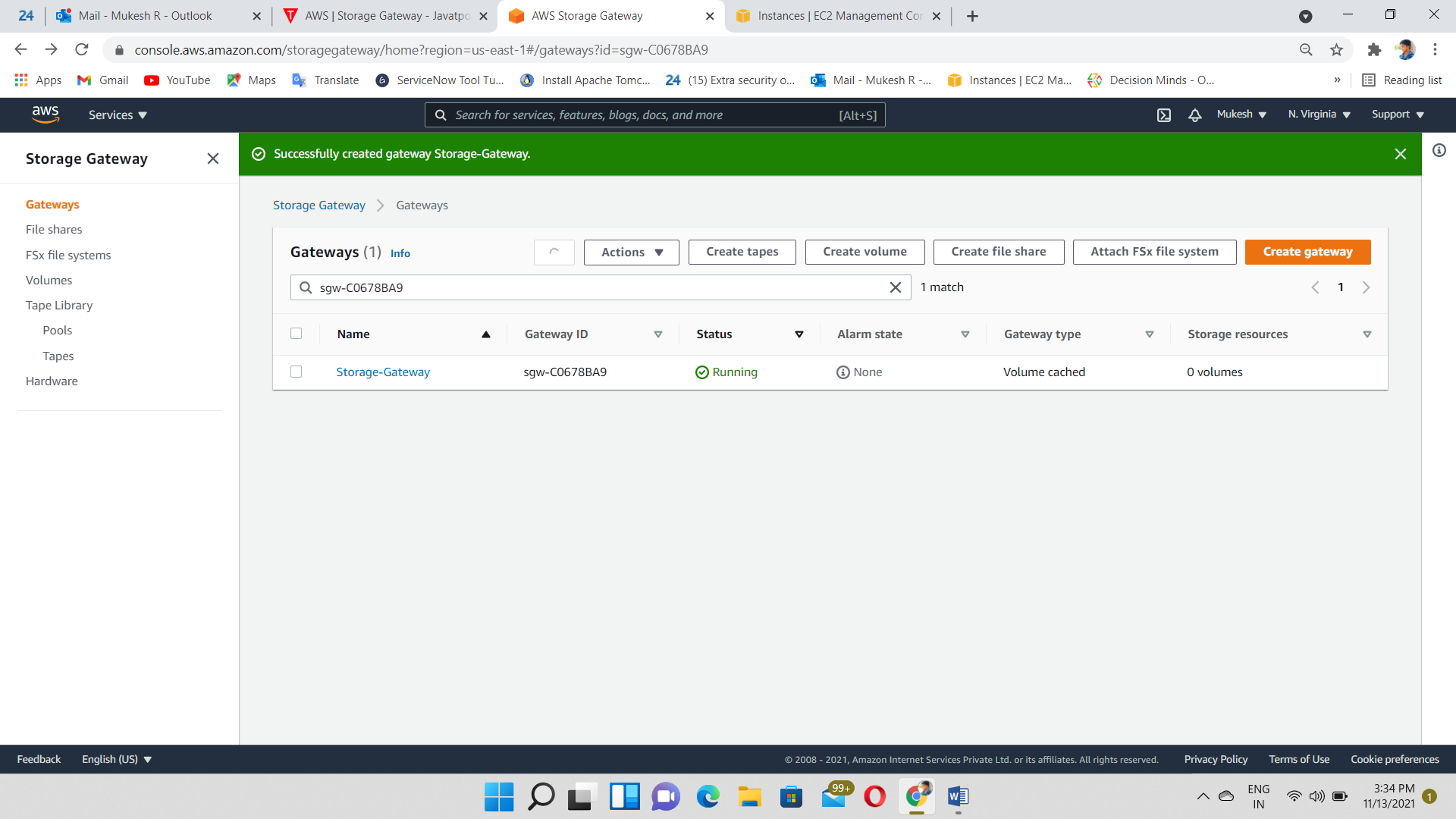
Configure Local disk



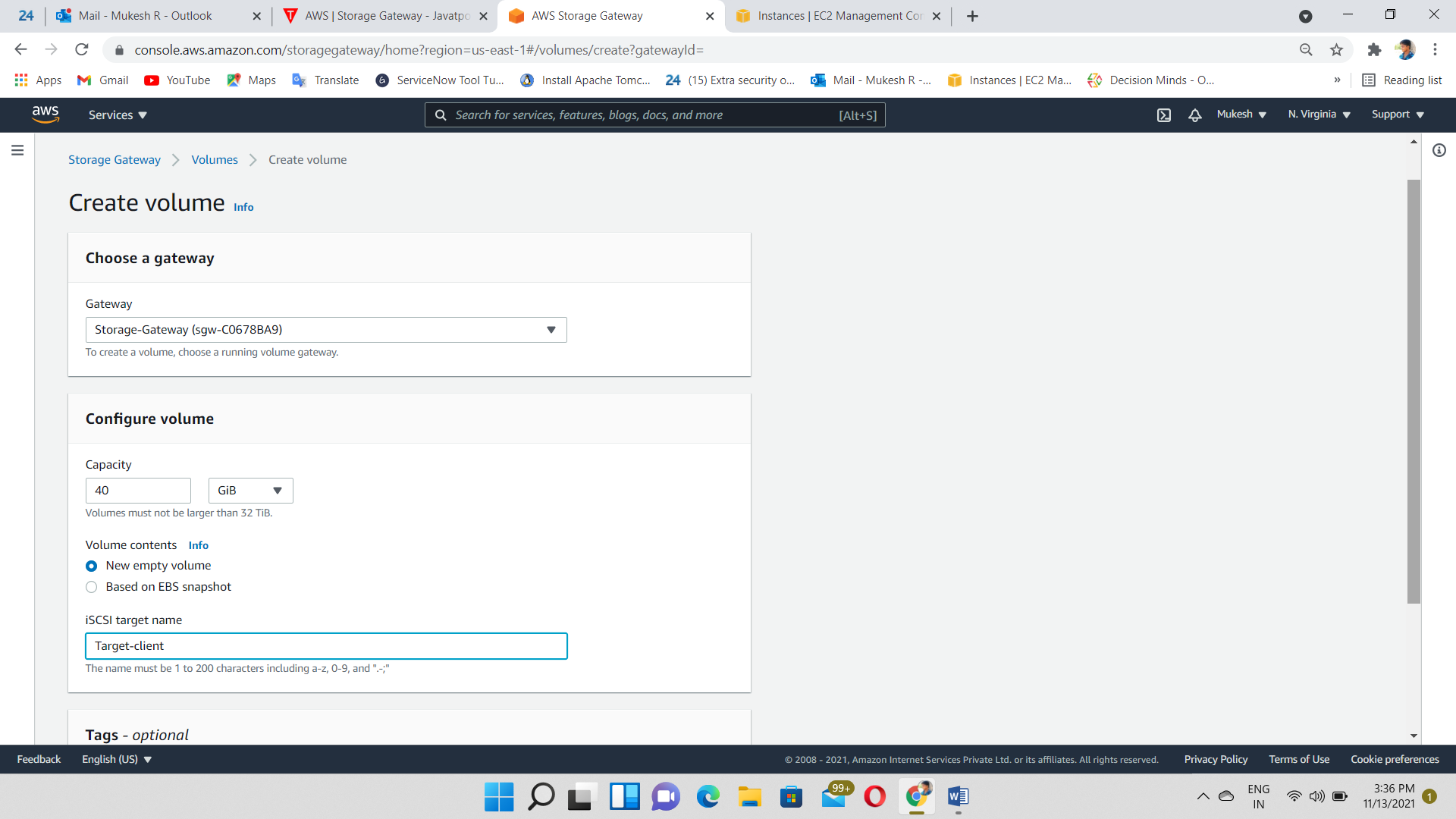
Select the Disable Logging



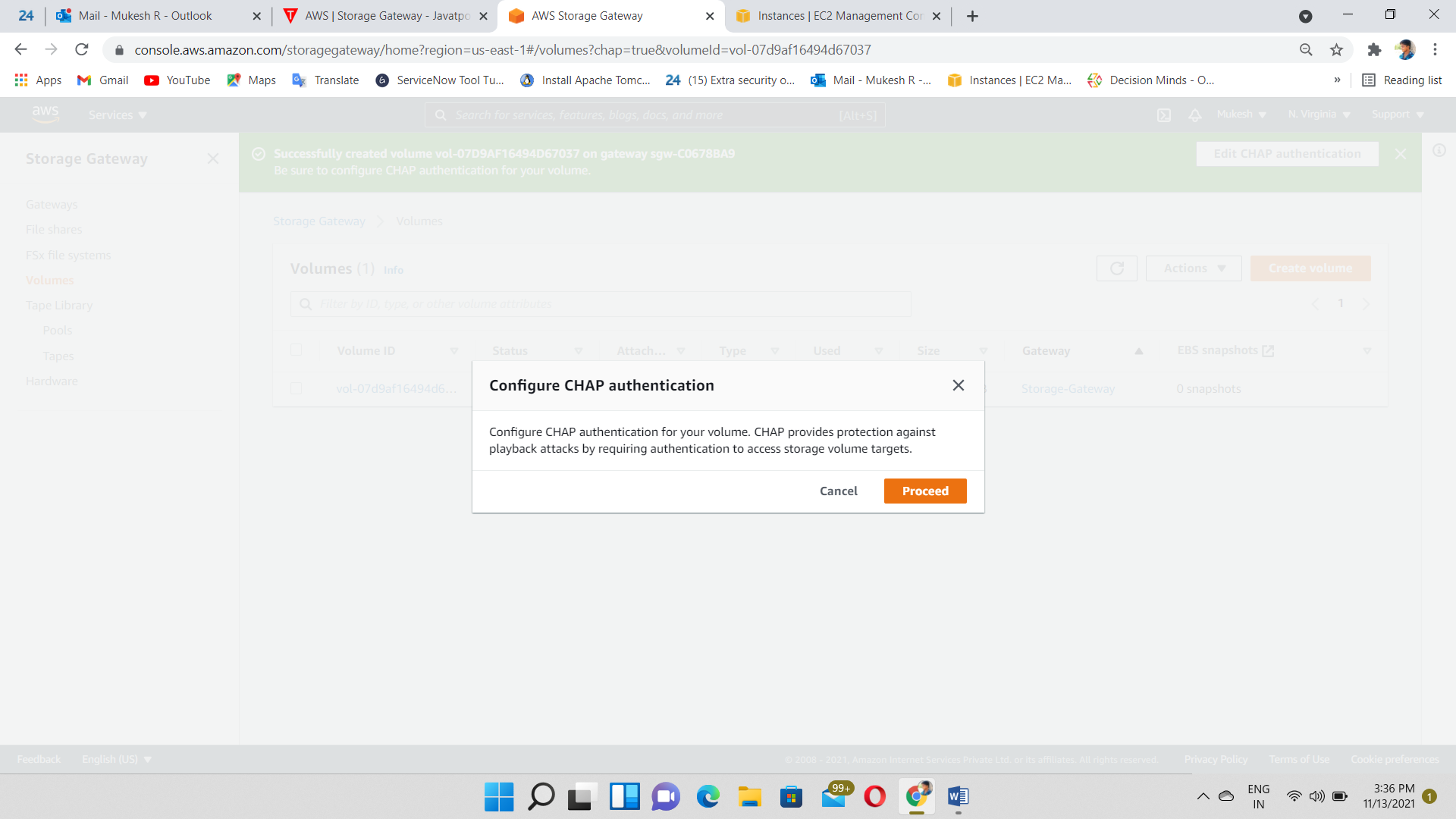
Storage Gateway Created and Status also running



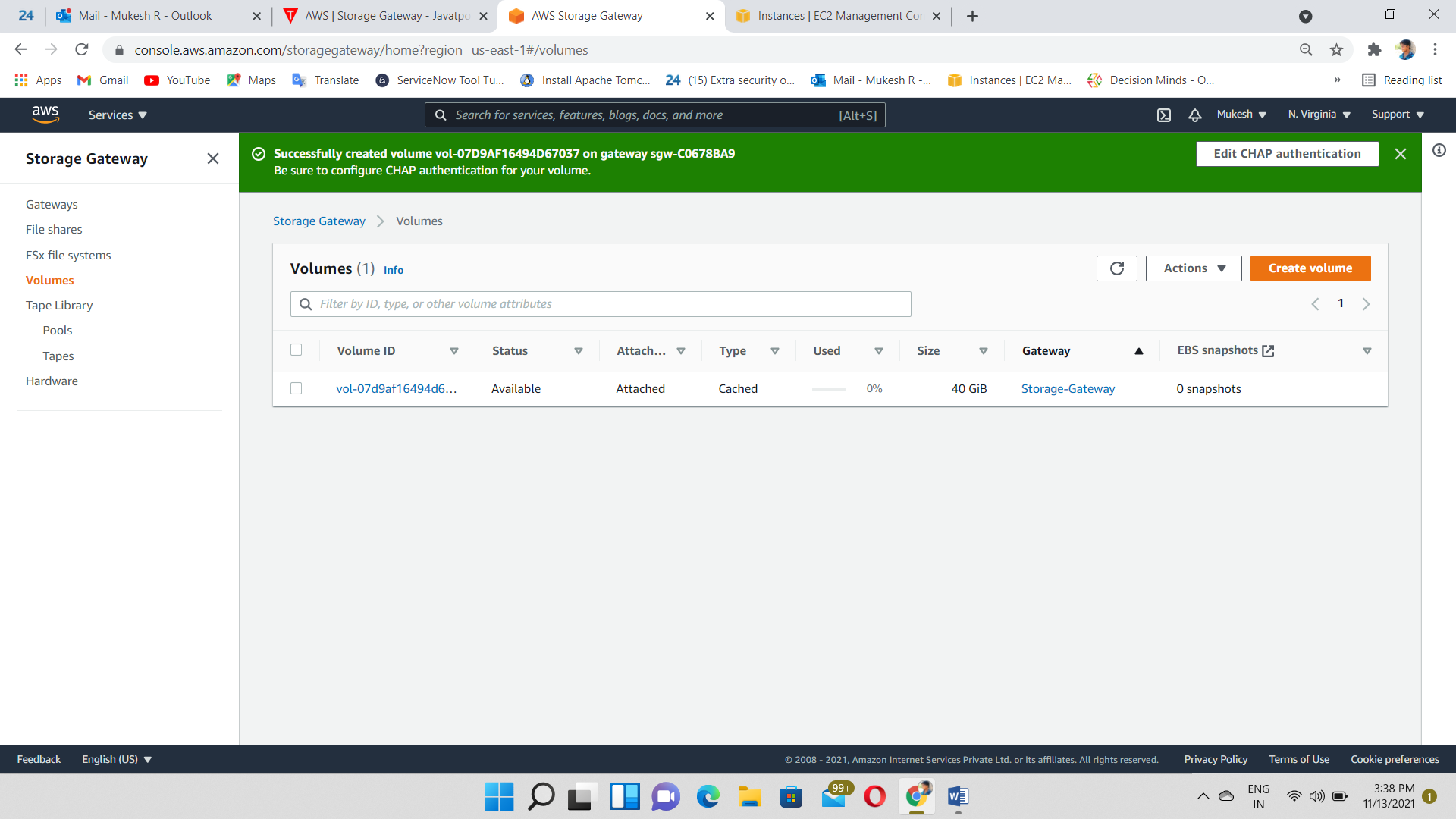
Create a Volume and give the ISCSI target name



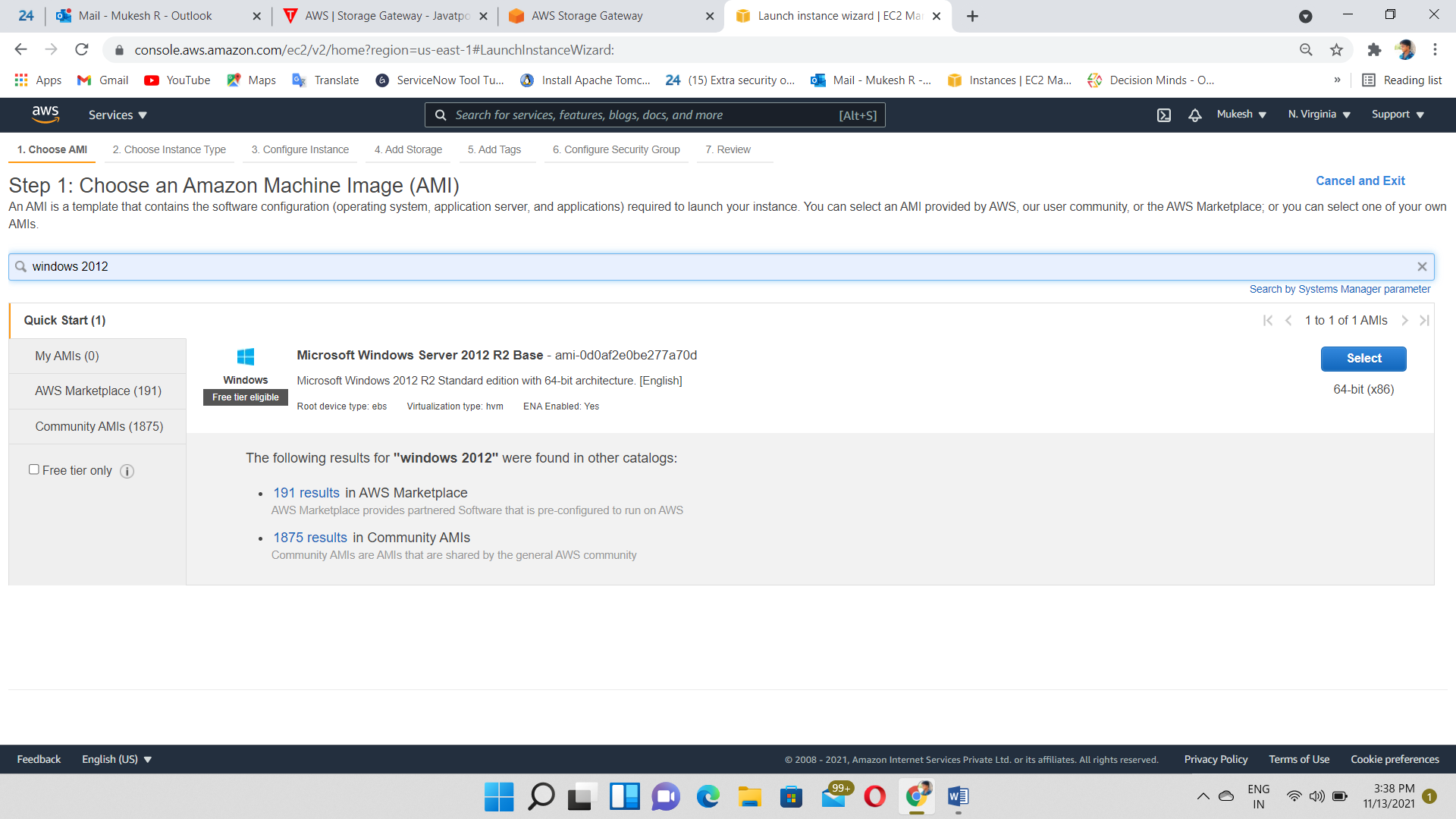
Cancel the configure authentication



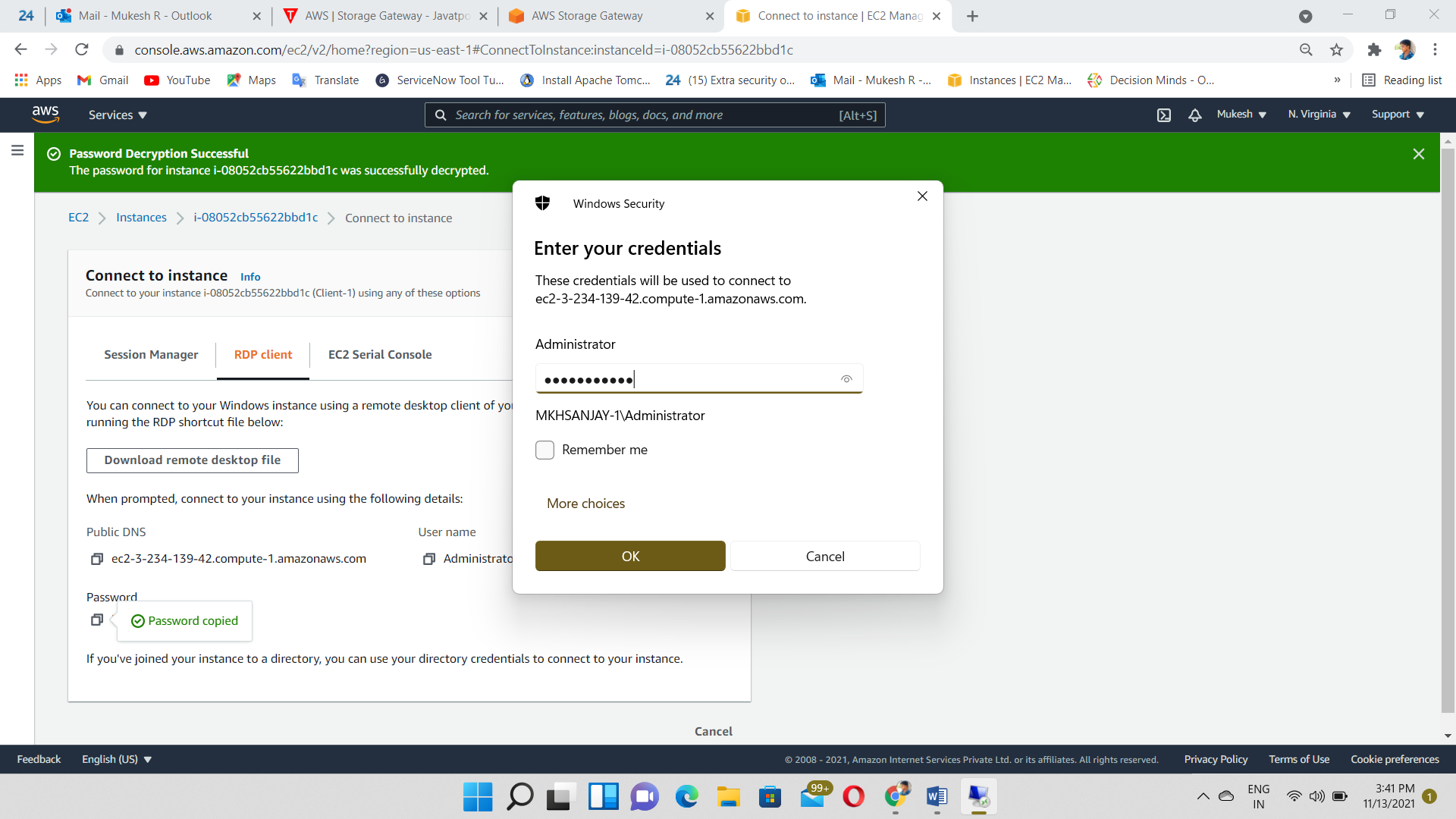
Volume Created and Attached volume to the Storage Gateway



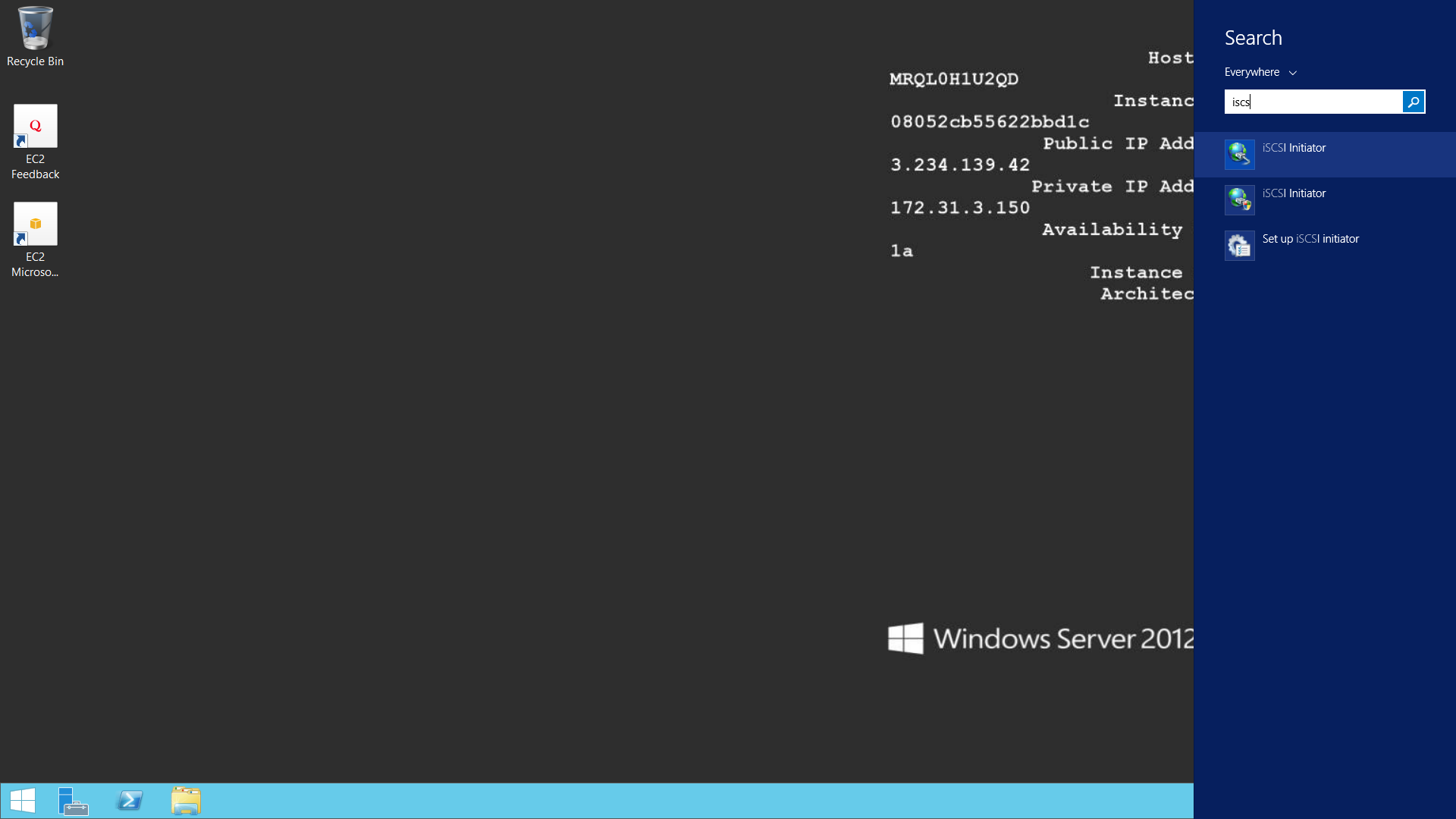
Create a windows instance (Client-1)



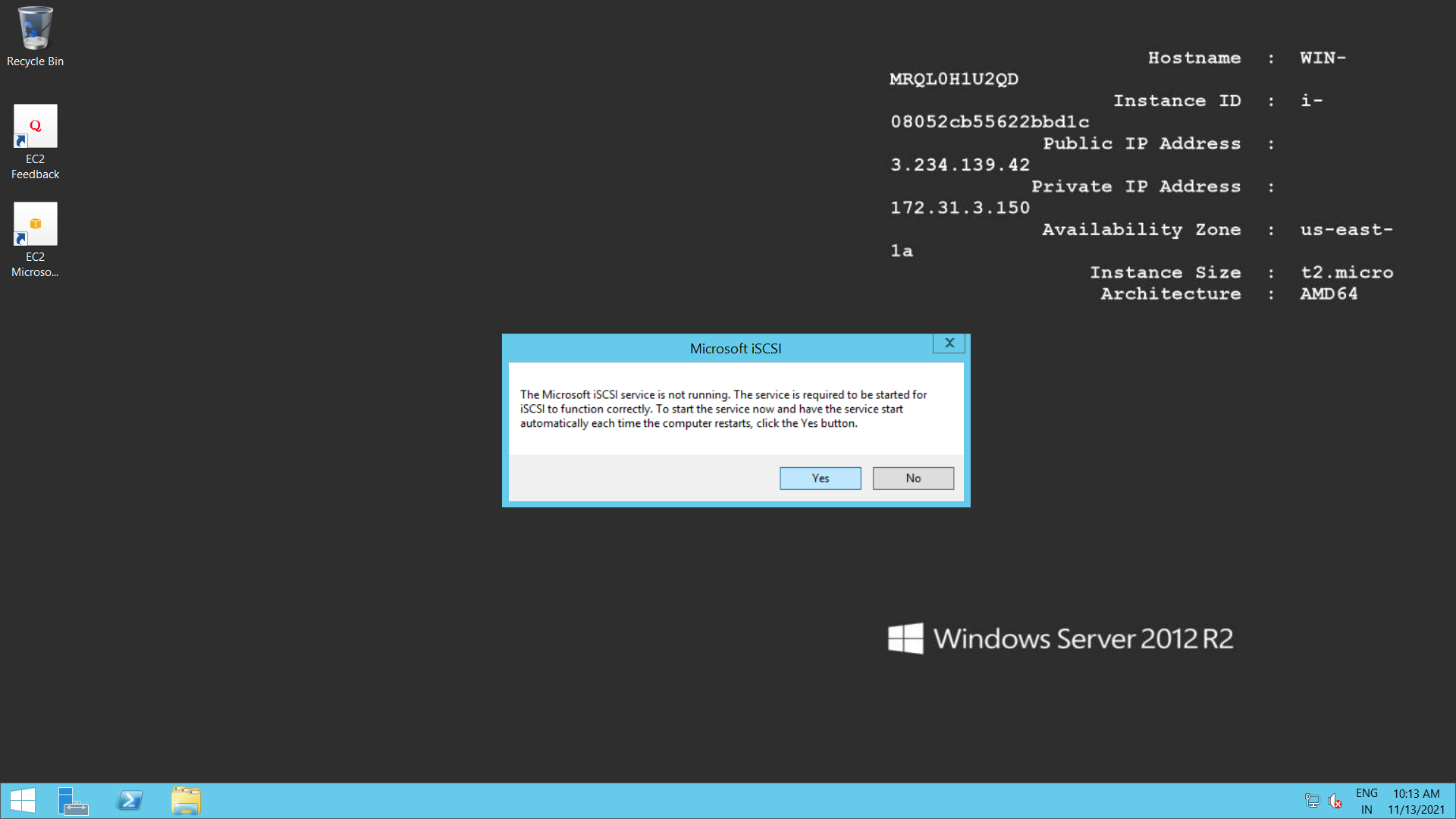
Login to the Client-1 machine using RDP



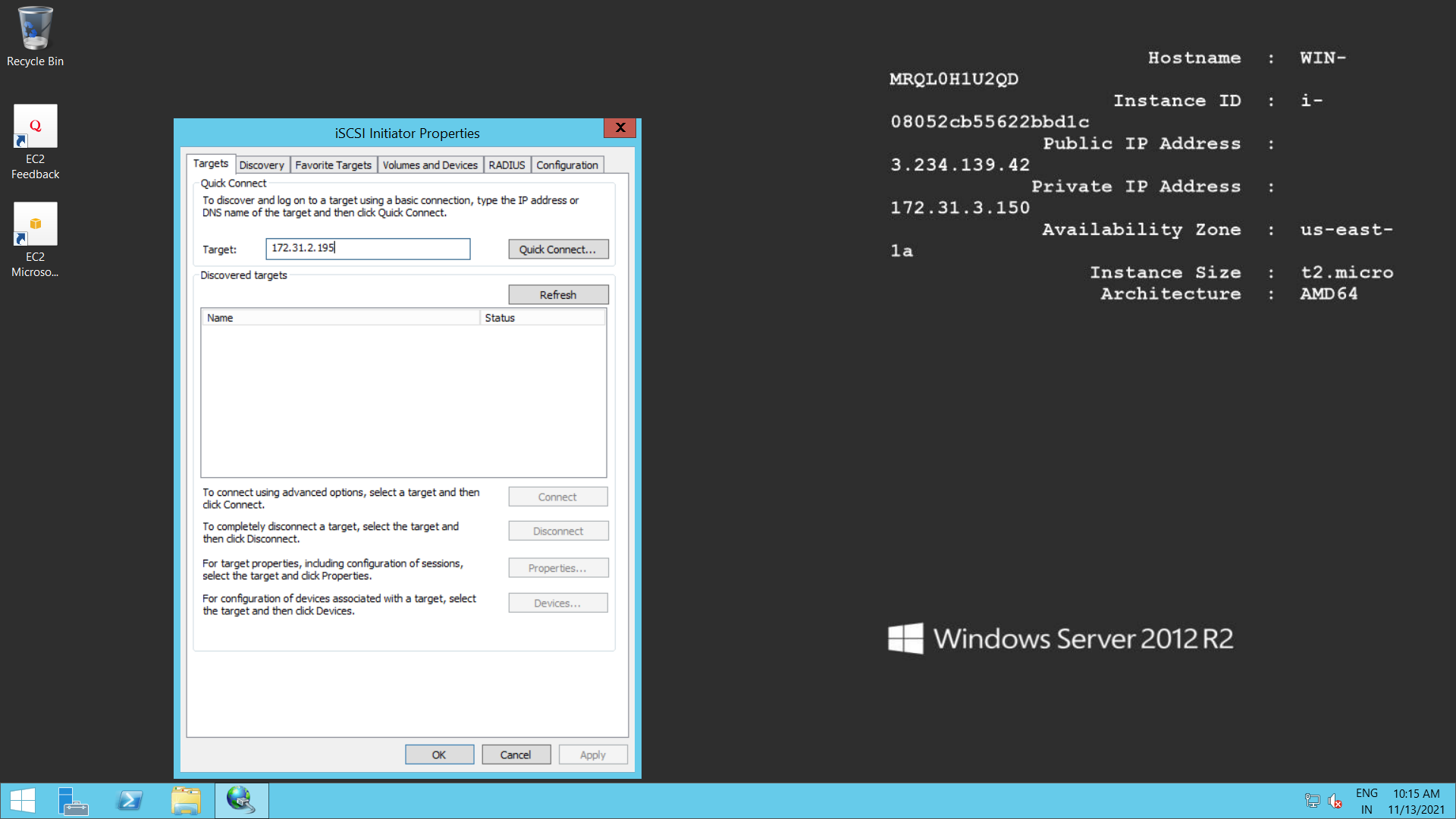
Search “ISCSI initializer”



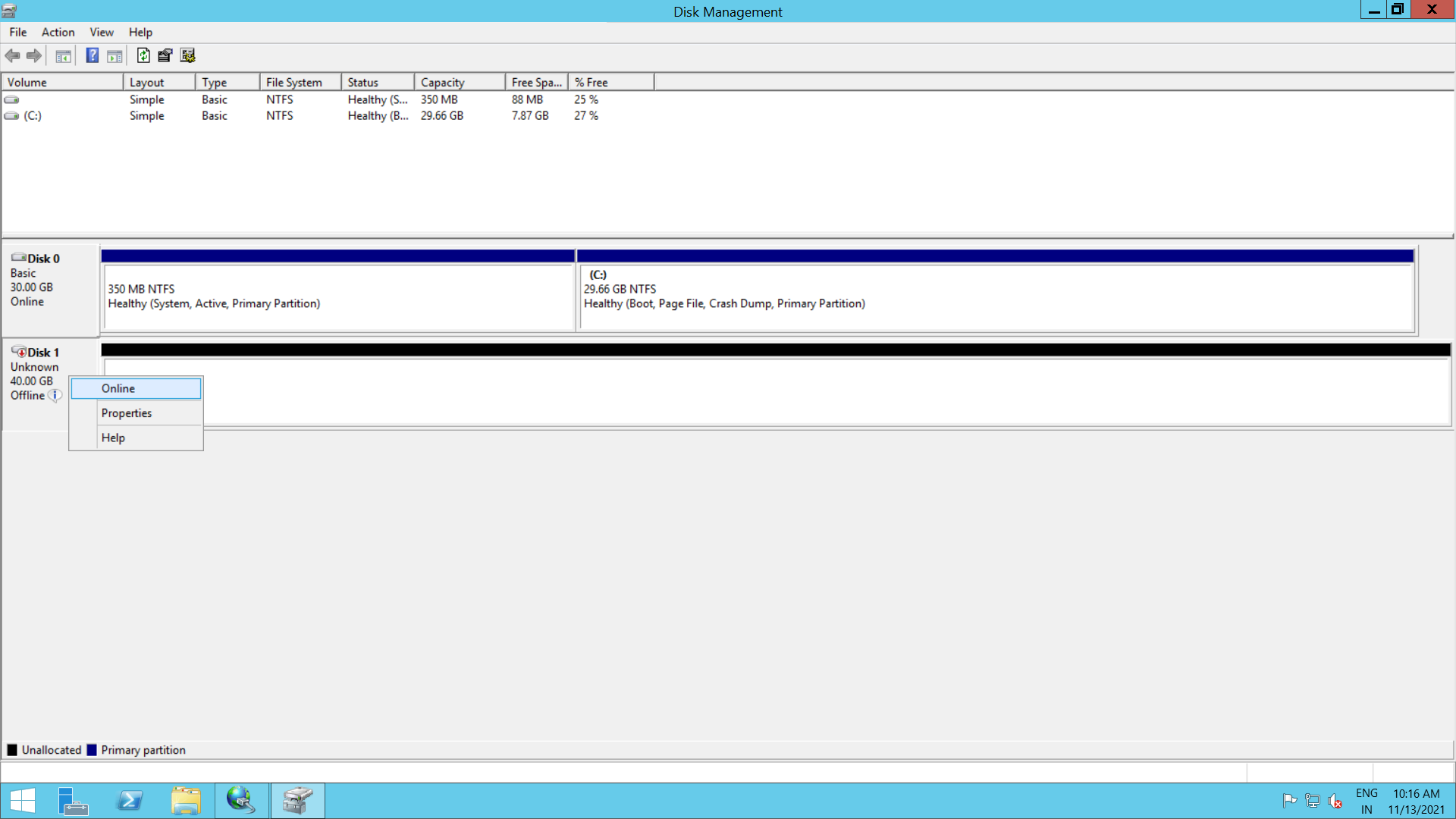
Select the ISCSI Initializer



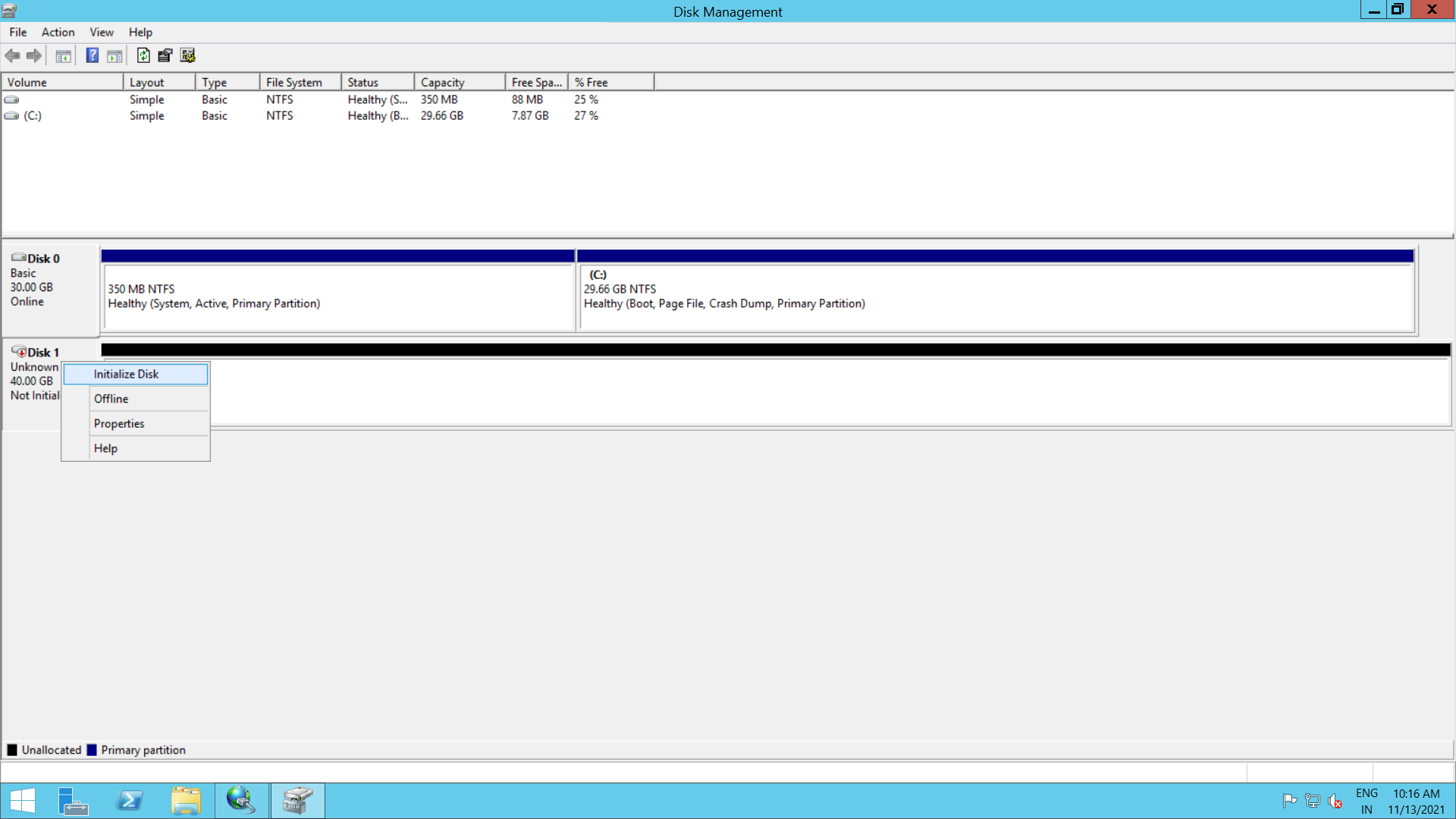
Copy & Paste the Private IP of Server Instance and Select Quick Connect



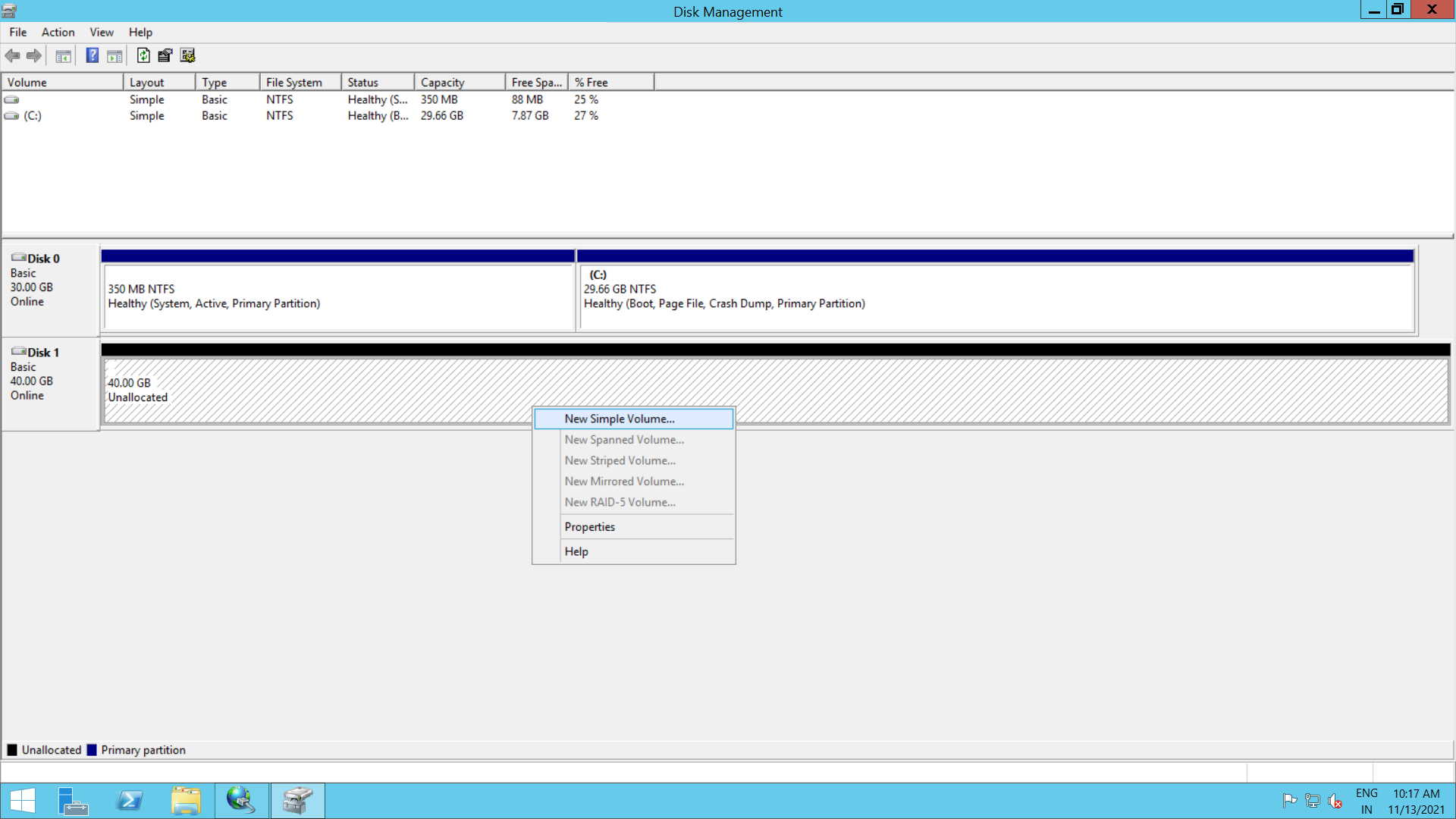
New Volume Created and Make it online



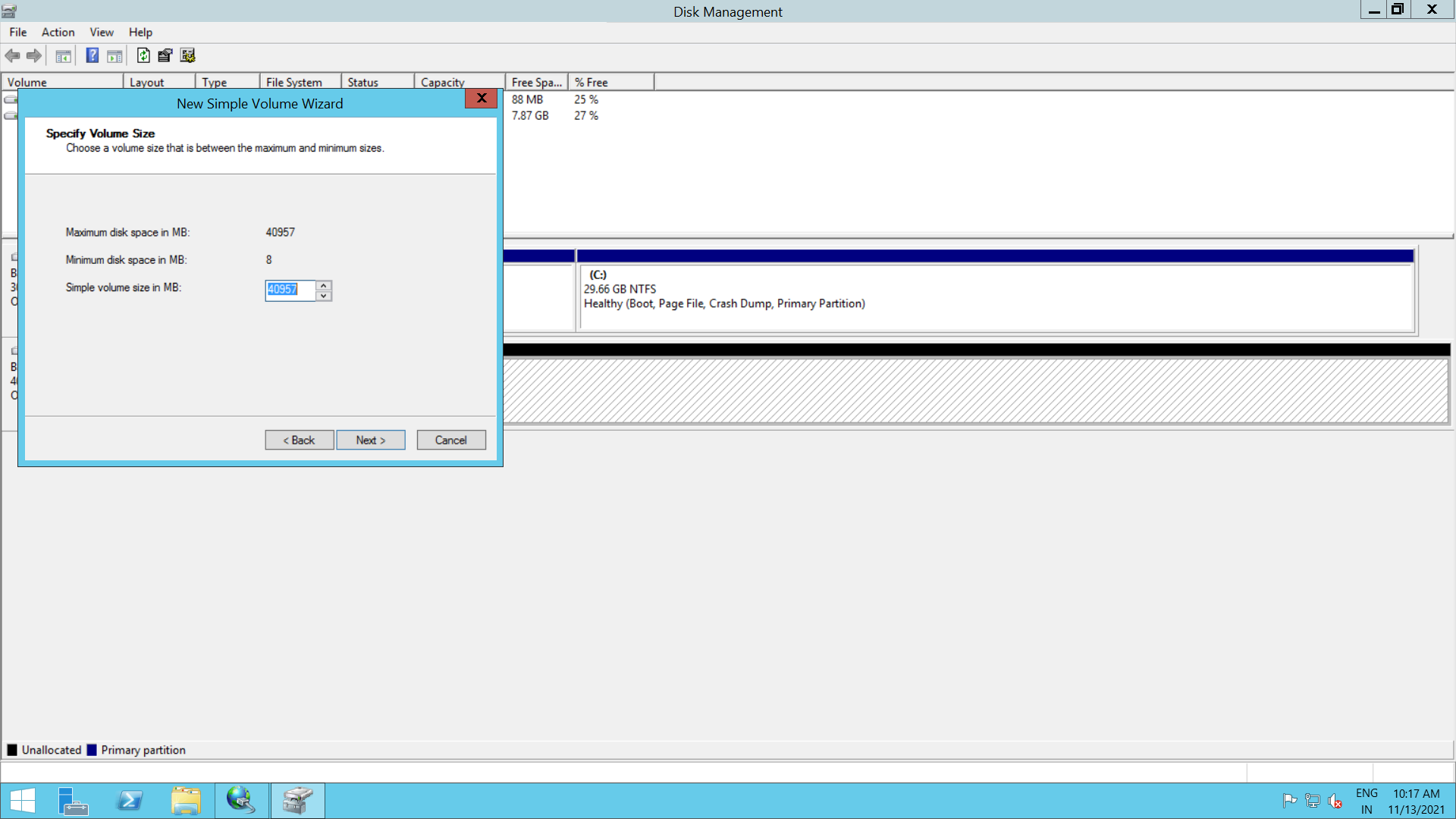
Initialize the Disk



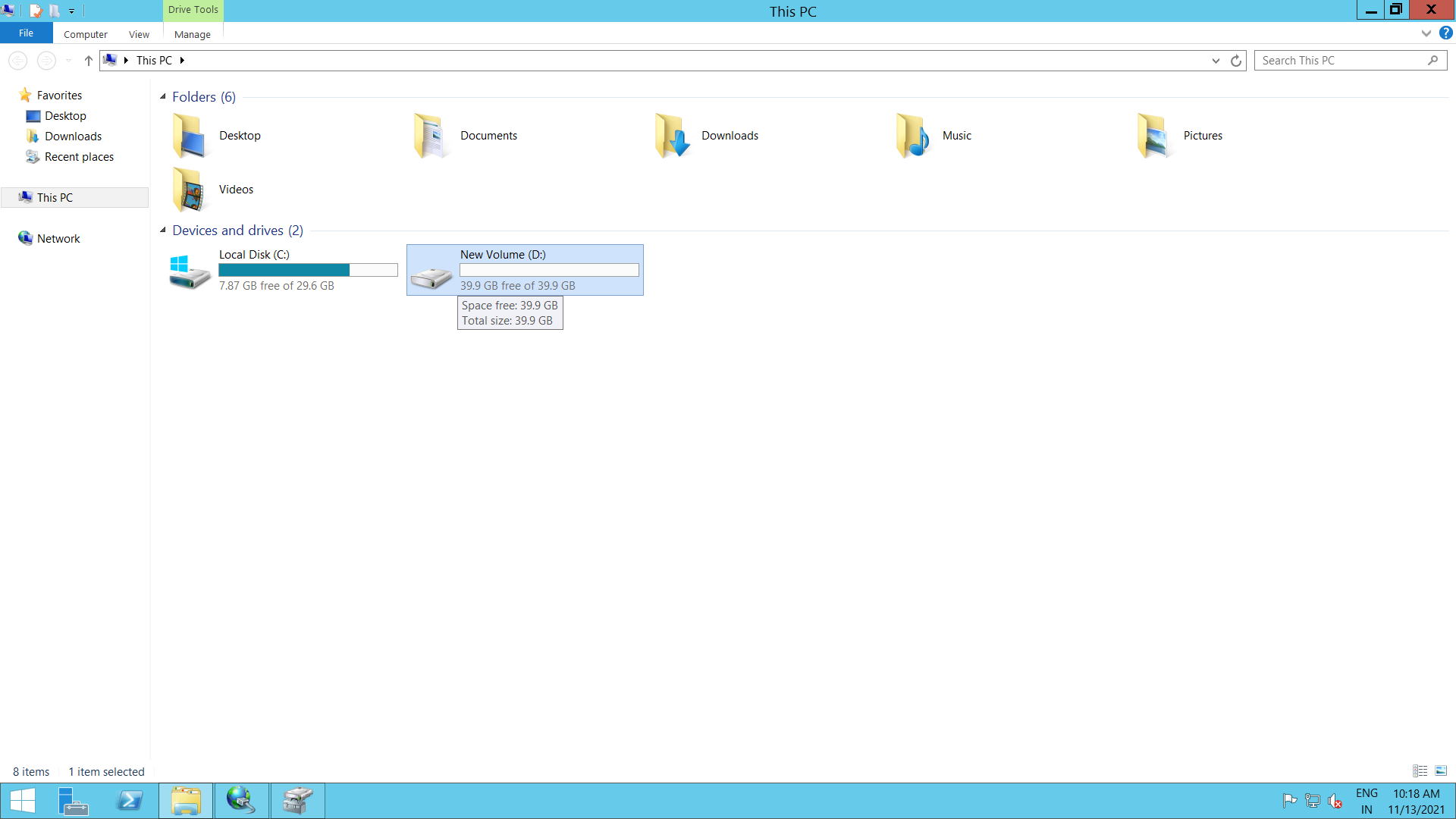
Create a disk



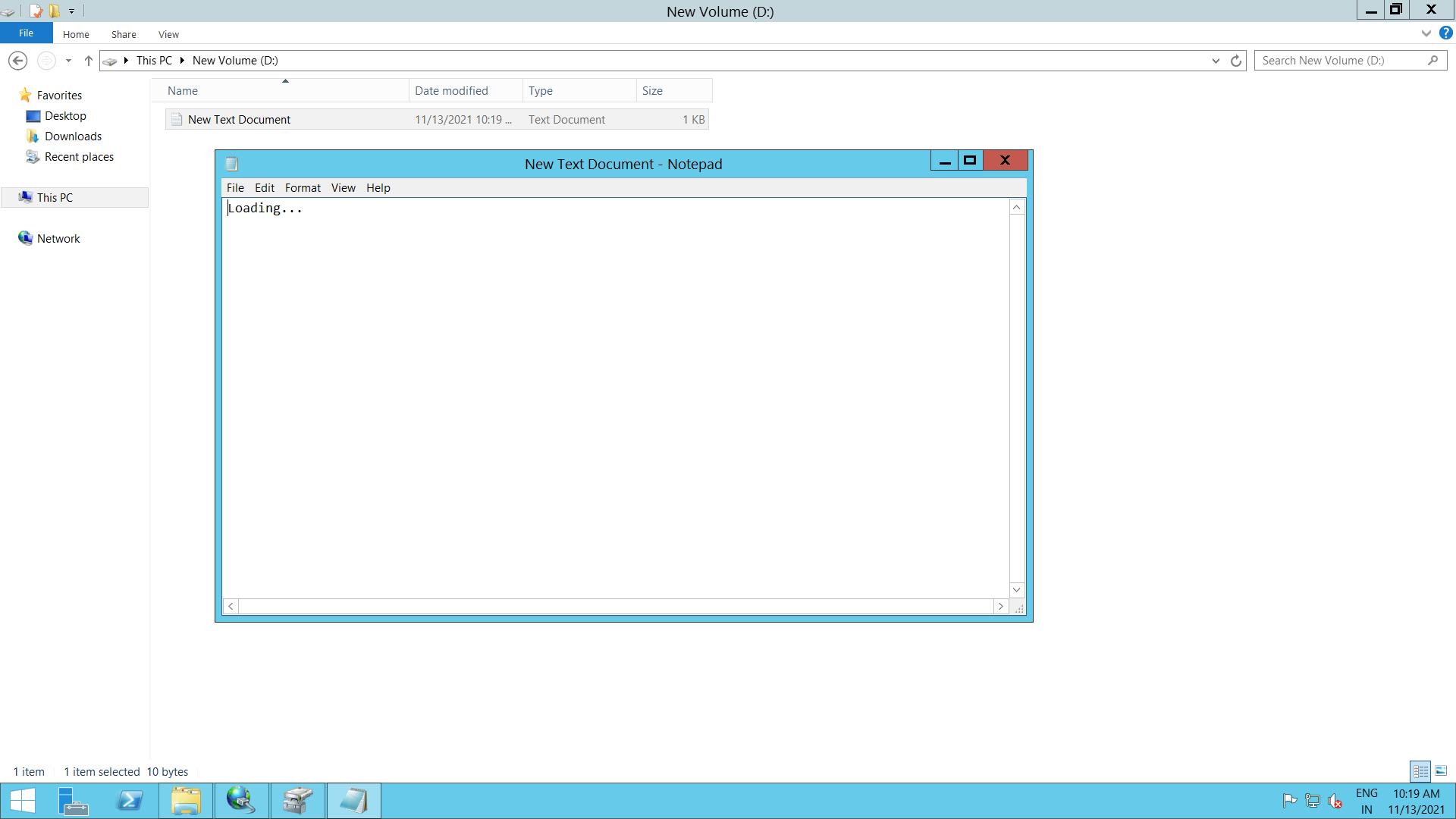
Select the Disk Size



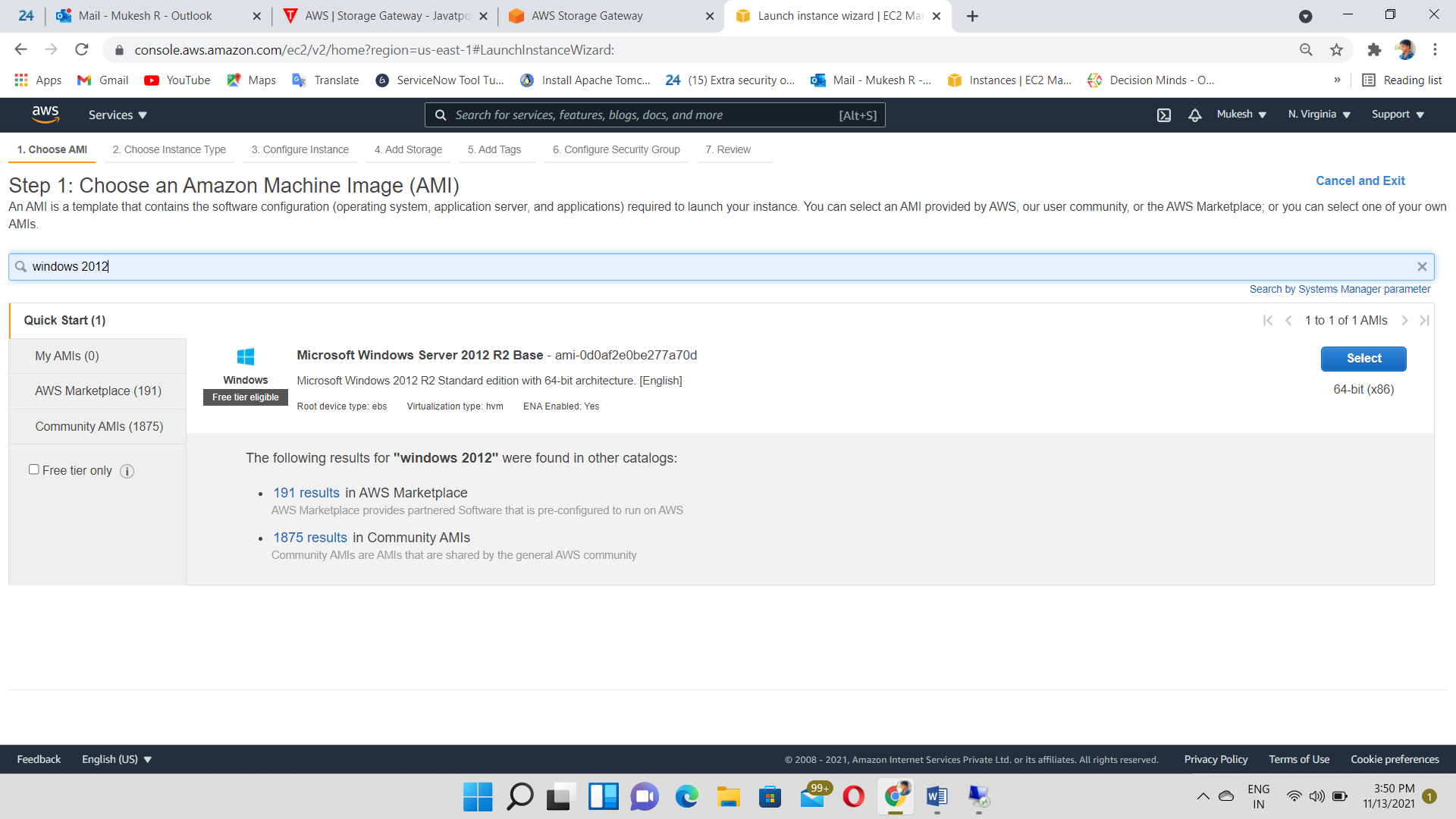
New Disk created



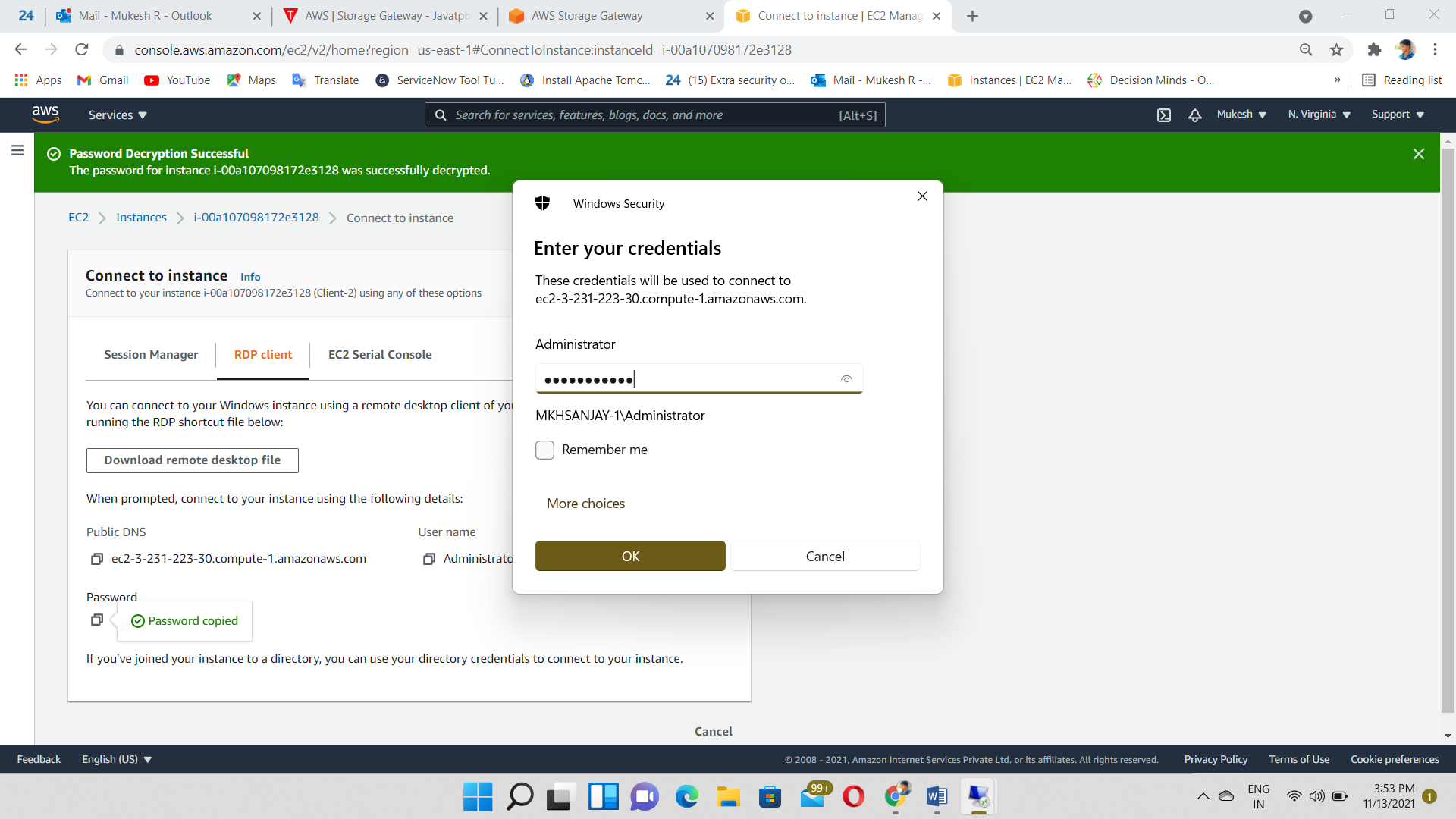
Create a Text file inside the new disk



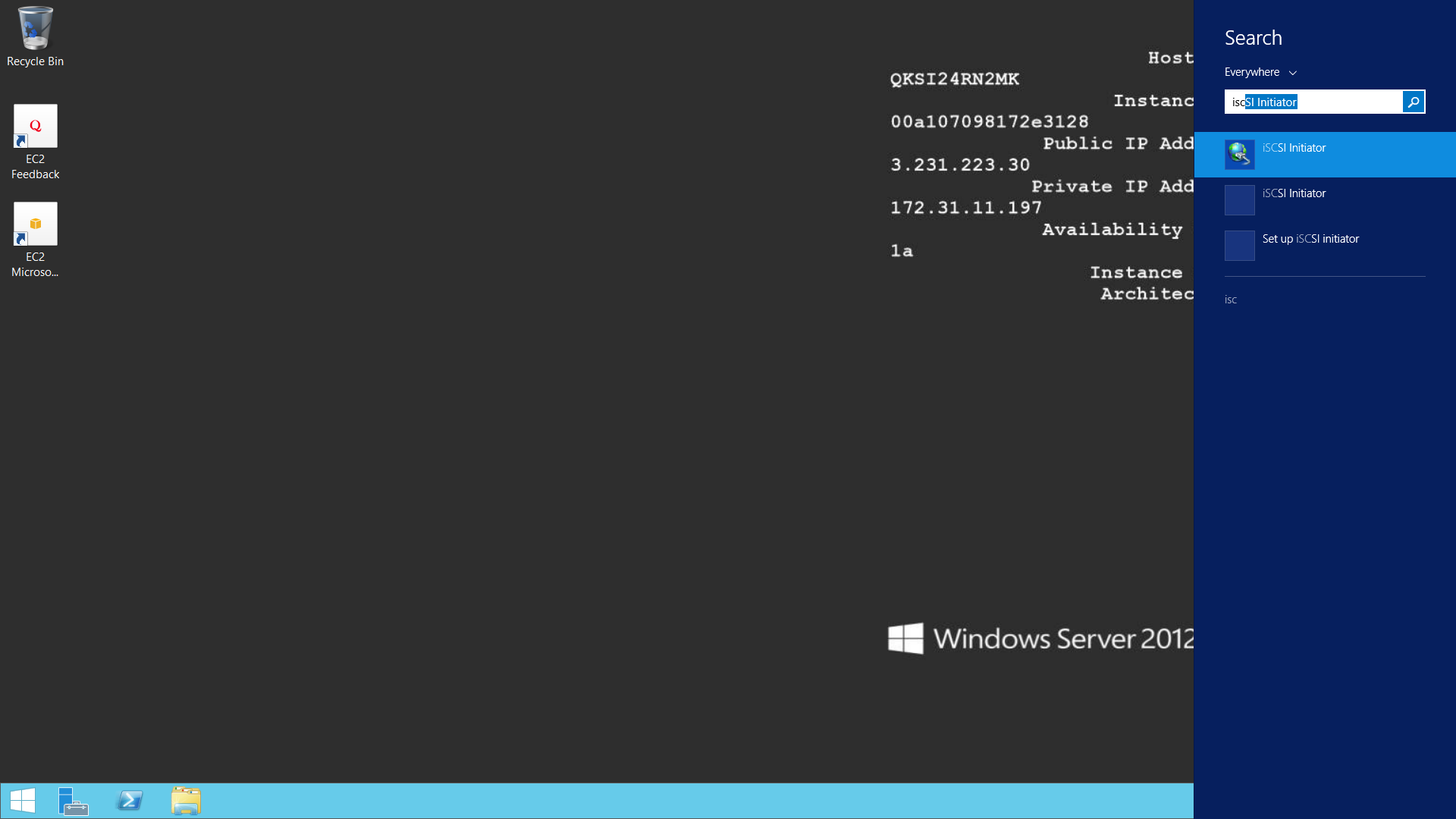
Create a another windows instance (Client-2)



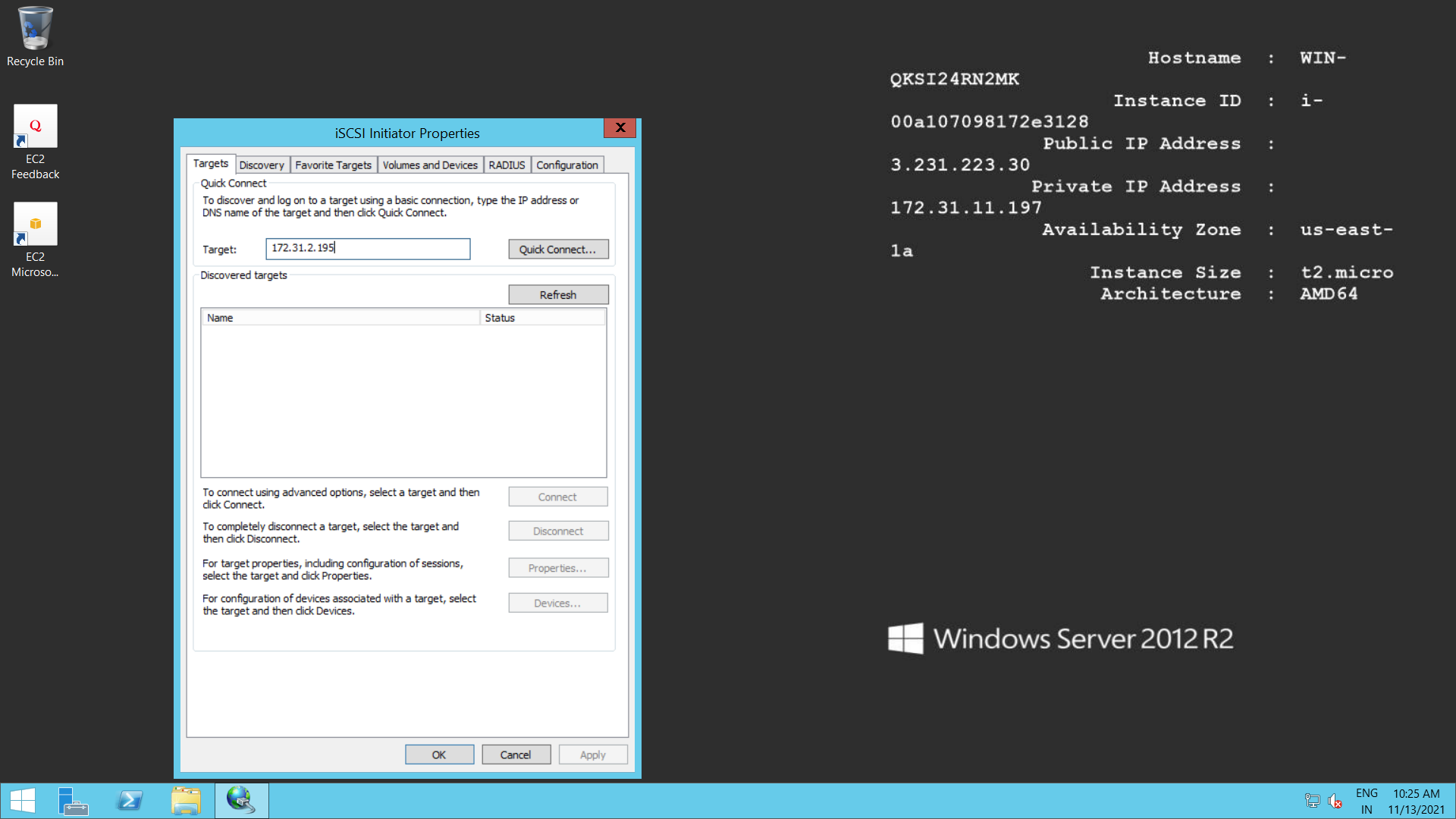
Login to the Instance (Client-2) using RDP



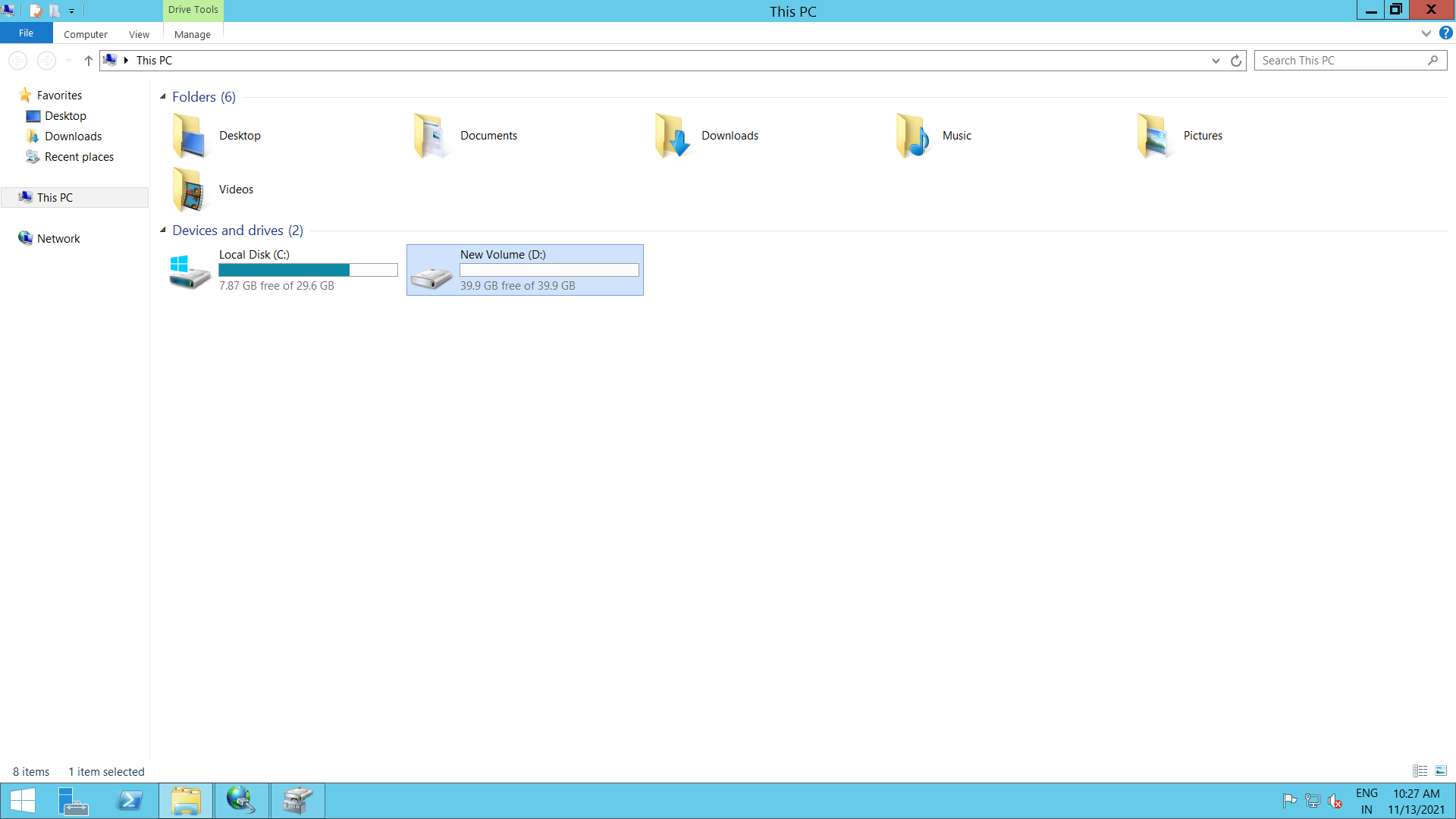
Search “ISCSI Initiator”



Copy & Paste the Private IP of Server Instance (Gateway Instance)



New Volume Created



Output: File also replicated

