



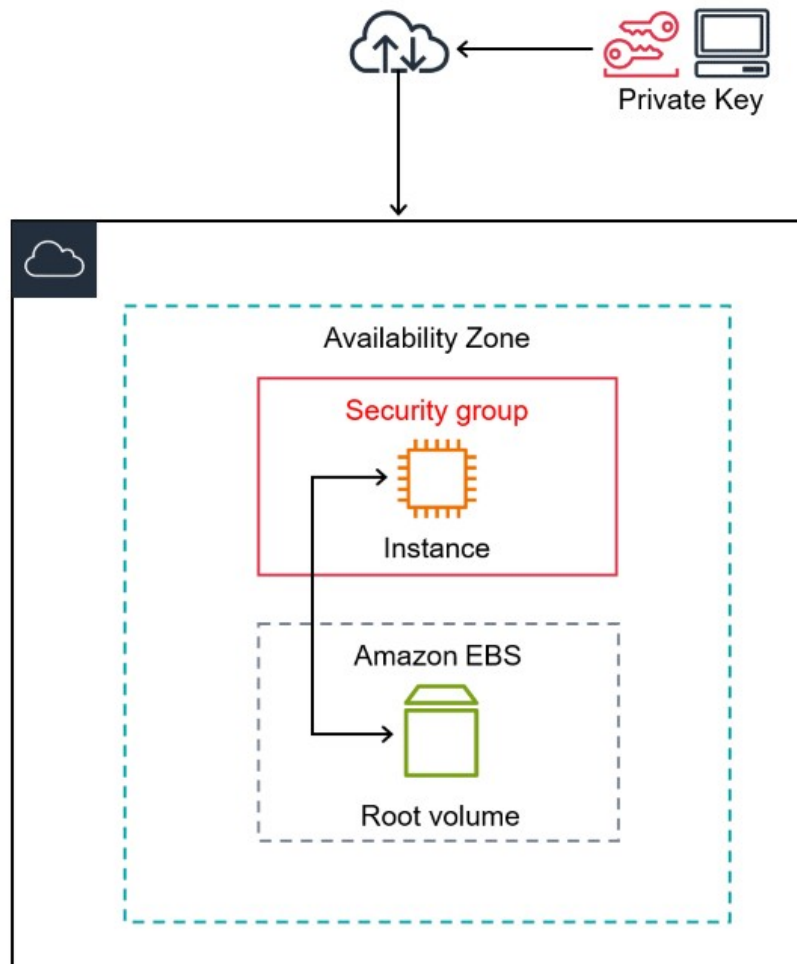
### Experiment No. 2

**Aim:** To study and Implement Infrastructure as a Service using AWS EC2 by creating a Windows Virtual Machine through RDP protocol and change volume of attached storage.

#### Theory:

An *instance* is a virtual server in the AWS Cloud. With Amazon EC2, you can set up and configure the operating system and applications that run on your instance.

When you launch your instance, you secure it by specifying a key pair (to prove your identity) and a security group (which acts as a virtual firewall to control ingoing and outgoing traffic). When you connect to your instance, you must provide the private key of the key pair that you specified when you launched your instance.





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Output:

The screenshot displays the AWS Management Console's EC2 Dashboard. On the left, a navigation menu includes options like EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main panel shows a table of instances with one instance, 'Demo\_Ec2', in a 'Running' state. Below the table, the 'Networking' tab for instance 'i-0655bc6f42c0958e5' is selected, showing details such as Public IPv4 address (13.55.95.150), Private IPv4 addresses (172.31.22.108), and VPC ID (vpc-02ac6feba2a9756da).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Demo_Ec2	i-0655bc6f42c0958e5	Running	t2.micro	Initializing	View alarms

**Instance: i-0655bc6f42c0958e5 (Demo\_Ec2)**

**Networking details**

- Public IPv4 address: 13.55.95.150
- Private IPv4 addresses: 172.31.22.108
- VPC ID: vpc-02ac6feba2a9756da
- Public IPv4 DNS: ec2-13-55-95-150.ap-southeast-
- Private IP DNS name (IPv4 only): ip-172-31-22-108.ap-southeast-

The screenshot shows the PuTTY Configuration dialog box. The 'Category' list on the left includes Session, Logging, Terminal, Keyboard, Bell, Features, Window, Appearance, Behaviour, Translation, Selection, Colours, Connection, Data, Proxy, SSH, Kex, Host keys, Cipher, Auth, Credentials, GSSAPI, TTY, X11, and Tunnels. The 'SSH' category is selected. The 'Basic options for your PuTTY session' section shows 'Host Name (or IP address)' as 13.55.95.150 and 'Port' as 22. The 'Connection type' is set to 'SSH'. The 'Load, save or delete a stored session' section shows 'Saved Sessions' with 'Demo\_Ec2' and 'Default Settings' with 'Demo\_ec2'. The 'Close window on exit' options are 'Always', 'Never', and 'Only on clean exit' (selected). The 'Open' button is highlighted.



### Conclusion:

#### Comment on the use of RDP protocol for Windows Virtual machine

RDP (Remote Desktop Protocol) is a well-suited protocol for accessing and managing Windows Virtual Machines (VMs). Here's why:

- **Native Support:** Windows RDP client is built-in, simplifying remote access without additional software downloads.
- **User-Friendly:** Offers a familiar Windows desktop experience for interacting with the VM.
- **Efficient:** Optimized for Windows graphics and updates, enabling smooth interaction.
- **Secure (when configured well):** Supports strong authentication and encryption to protect VM access.