we can create at a time 5 VPC

Transit gateway :-

AWS transit gateway connects VPC’s and on premises networks through a central hub. This simplifies your network and puts end to complex peering relationship. It acts as a cloud router each new connection is only made once.

Benefits of AWS transit gateway :-

1. Deliver applications around the world :- AWS transit gateway helps you build applications spanning thousands of amazon VPC’s.
2. Rapidly move to global scale :- with inter-region peering, everything attached to an AWS transit gateway is shared across AWS regions.
3. Smoothly respond to spikes in demand :- with AWS transit gateway, you can quickly add amazon VPC’s AWS account. VPN capacity, or AWS direct connect gateway to meet unexpected demand, without having to wrestle with complex connections or massive routing tables.
4. Host multicast applications in the cloud :- with AWS transit gateway’s multicast feature, you can host multicast applications without redesigning your application or tweaking your on premises network.

Features of AWS transit gateway :-

* Routing
* Edge connectivity
* Transit gateway connect.
* Amazon VPC feature interoperability.
* Monitoring
* Management
* Inter-region peering
* Multicast
* Security
* Automated provisioning

Practical :-

1. Create one transit gateway
2. Create multiple VPC ( in same cidr)( like 10.0.0.0/16, 10.1.0.0/16, 10.2.0.0/16 etc)
3. Create all subnets are public
4. Check the rout table
5. Create internet gateway
6. Do the entry of entry of internet gateway in the rout table.
7. While creating the instance icmp port should be enable
8. Get the ssh of instance 1
9. Get the ssh of instance 2
10. Get the ssh of instance 3
11. Check instance by ping (it will not)
12. Create transit gateway

* Name tag
* Give description
* Click on create transit gateway

1. Click on transit gateway attachment

* Click on create transit gateway attachment
* Transit gateway ID (select the transit gateway which we have created)
* Select vpc
* Give attachment tag
* Select the VPC ID’s
* Select the subnet id one or more
* Click on Create attachment

1. Repeat the step 13 for you all vpc’s
2. Transit gateway rout table will by default created
3. Now click on rout table (for entry of all vpcs)

* Select VPC’s
* Click on rout
* Add rout
* Add the CIDR of your VPC’s
* Select transit gateway

1. Repeat the step 16 for all the VPC’s (just entry the VPC’s in rout table and select transit gateway)
2. Now ping the instances/VPC’s by its private IP
3. Practical completed