What is BGP?

Exterior Gateway protocol - Is the only routing protocol design to communicate between autonomous systems.

Unlike Internal gateway protocol design to communicate with the same AS

What is an Autonomous system or AS?

Is a collection of networks under a single domain.

or

Is a number that identify an organisation.

BGP Features

1. BGP is an open standard protocol – which means it does not belong to any one and can be used on all supported devices.
2. Is an Exterior Gateway protocol – it means it is going to exchange route between two or more AS.
3. It is design for inter-AS domain routing.
4. It is design to scale huge inter-network like internet.
5. It supports classless.
6. BGP is path vector protocol - it maintains the AS path information.
7. It sends updates to manually define neighbours as unicast.
8. BGP application layer uses TCP port 179.
9. BGP uses is attributes as metric.
10. BGP administrative distance is:

20 External updates (EBGP)

200 Internal updates (IBGP)

BGP’s loop prevention mechanism