WHAT IS CLAIMED IS:

1. A method of incremental scaling switches in a data center, comprising:

providing a first set of one or more switches;

providing a second set of one or more switches;

providing a third set of one or more switches;

connecting two or more ports of each switch of the first set with two or more ports of each switch of the second set using two or more connections;

connecting each switch of the first set with each switch of the third set using one or more connections;

providing a fourth set of switches equal in number to the second set;

for each of the one or more switches of the second set, disconnecting one of the two ~~of~~ or more connections to the first set; ~~and~~

for each of the disconnected connections from the switches of the second set, reconnecting the disconnected connection with a respective switch of the fourth set; ~~.~~

~~2. The method of claim 1, further comprising:~~

providing a fifth set of one or more switches; and

connecting a respective port of each switch of the fifth set ~~with~~ to a respective port of each switch of the second set, each switch of the third set, and each switch of the fourth set ~~.~~

~~3. The method of claim 2,~~ wherein connecting each switch of the fifth set with each switch of the second set, each switch of the third set, and each switch of the fourth set results in a formation of one at least one of i) a high radix network or ii) a fat tree network topology.

2. The method of claim 1, wherein the~~forms a~~ fat tree network topology is with or without oversubscription between tiers.

43. The method of claim 1, wherein disconnecting one of the two or ~~f~~ more connections from the number of switches of the second set sequentially and reconnecting the disconnected connections with a respective switch of the fourth set occurs sequentially.

~~5~~4. The method of claim 1, wherein disconnecting one of the two of more connections from the number of switches of the second set from numbered port locations and reconnecting the disconnected connections with a respective switch of the fourth set occurs in an equivalent numbered port location.

~~6~~5. The method of claim ~~2~~1, wherein connecting each switch of the fifth set with each switch of the second set and the third set and the fourth set comprises connecting to a respective port of a respective switch of the second set made available when one of the two or more connections from each switch of the second set was disconnected.

~~7~~6. The method of claim 1, wherein at least a portion of the first set of switches are top of rack (TOR) switches connected to a plurality of host computing devices in a server rack.

~~8~~7. The method of claim 1, wherein the number of switches of the first set of switches equals the number of switches in the fifth set.

~~9~~8. The method of claim 1, wherein at least a portion of the second set of switches are spine switches.

~~10~~9. The method of claim 1, wherein at least a portion of the fifth set of switches are edge switches.

~~11~~10. A switch network in a data center comprising:

a first set of one or more switches, wherein each switch in the first set of one or more switches includes two or more ports;

a second set of one or more switches, wherein each switch in the second set of one or more switches includes two or more ports, and wherein two or more ports of each switch in the second set of one or more switches are connected with at least two or more ports of each switch of the first set of one or more switches~~connected with at least one switch of the first set with two or more connections~~; ~~and~~

a third set of one or more switches connected with each switch of the first set of one or more switches utilizing one of the two or more connections between a respective switch of the first set of switches and a respective switch of the second set of switches, wherein the one of the two or more connections is disconnected from the respective switch of the second set of switches and reconnected with the respective switch of the third set of switches; and~~.~~

~~12. The switch network system of claim 11, further comprising:~~ a fourth set of one or more switches connected with each switch of the second set of switches and the third set of switches~~.~~

~~13. The method of claim 12~~, wherein connecting the ~~connected~~ first set, second set, third set, and fourth set of switches results in the formation of at least one of i) a high radix network or ii) fat tree topology.

11. The method of claim 10, wherein the ~~comprise a~~ fat tree network topology is with or without oversubscription between tiers.

~~14~~12. The method of claim ~~13~~11, wherein the fat tree network topology is a re-arrangeably non-blocking network topology.

~~15~~13. The switch network of claim ~~14~~12, wherein the rearrangeably non-blocking network topology is a Clos network topology.