

The diagram illustrates a complex network structure with 102 nodes, numbered 1 through 102. The nodes are represented by three different shapes: squares, circles, and diamonds. The connections between nodes are shown as lines, forming a hierarchical structure with multiple levels of branching and merging.

The nodes are arranged in four main horizontal layers:

- Layer 1 (Top):** Nodes 1, 2, 3, 4, 35, 36, 37, 38, 69, 70, 71, 72.
- Layer 2:** Nodes 5, 6, 7, 8, 9, 10, 12, 13, 14, 11, 39, 40, 41, 42, 43, 44, 46, 47, 48, 45, 73, 74, 75, 76, 77, 78, 80, 81, 82, 79.
- Layer 3:** Nodes 18, 17, 16, 15, 20, 19, 21, 22, 23, 52, 51, 50, 49, 54, 53, 55, 56, 57, 86, 85, 84, 83, 88, 87, 89, 90, 91.
- Layer 4 (Bottom):** Nodes 28, 29, 30, 26, 27, 31, 32, 33, 34, 24, 25, 63, 62, 64, 60, 61, 65, 66, 67, 68, 58, 59, 96, 97, 98, 94, 95, 99, 100, 101, 102, 92, 93.

The connections are as follows:

- Layer 1 to Layer 2:**
 - Node 1 (square) connects to a central node in Layer 2.
 - Node 2 (circle) connects to a central node in Layer 2.
 - Node 3 (square) connects to a central node in Layer 2.
 - Node 4 (circle) connects to a central node in Layer 2.
 - Node 35 (square) connects to a central node in Layer 2.
 - Node 36 (circle) connects to a central node in Layer 2.
 - Node 37 (square) connects to a central node in Layer 2.
 - Node 38 (circle) connects to a central node in Layer 2.
 - Node 69 (square) connects to a central node in Layer 2.
 - Node 70 (circle) connects to a central node in Layer 2.
 - Node 71 (square) connects to a central node in Layer 2.
 - Node 72 (circle) connects to a central node in Layer 2.
- Layer 2 to Layer 3:**
 - Node 5 (square) connects to a central node in Layer 3.
 - Node 6 (circle) connects to a central node in Layer 3.
 - Node 7 (diamond) connects to a central node in Layer 3.
 - Node 8 (diamond) connects to a central node in Layer 3.
 - Node 9 (diamond) connects to a central node in Layer 3.
 - Node 10 (diamond) connects to a central node in Layer 3.
 - Node 12 (diamond) connects to a central node in Layer 3.
 - Node 13 (diamond) connects to a central node in Layer 3.
 - Node 14 (square) connects to a central node in Layer 3.
 - Node 11 (circle) connects to a central node in Layer 3.
 - Node 39 (square) connects to a central node in Layer 3.
 - Node 40 (circle) connects to a central node in Layer 3.
 - Node 41 (diamond) connects to a central node in Layer 3.
 - Node 42 (diamond) connects to a central node in Layer 3.
 - Node 43 (diamond) connects to a central node in Layer 3.
 - Node 44 (diamond) connects to a central node in Layer 3.
 - Node 46 (diamond) connects to a central node in Layer 3.
 - Node 47 (diamond) connects to a central node in Layer 3.
 - Node 48 (square) connects to a central node in Layer 3.
 - Node 45 (circle) connects to a central node in Layer 3.
 - Node 73 (square) connects to a central node in Layer 3.
 - Node 74 (circle) connects to a central node in Layer 3.
 - Node 75 (diamond) connects to a central node in Layer 3.
 - Node 76 (diamond) connects to a central node in Layer 3.
 - Node 77 (diamond) connects to a central node in Layer 3.
 - Node 78 (diamond) connects to a central node in Layer 3.
 - Node 80 (diamond) connects to a central node in Layer 3.
 - Node 81 (diamond) connects to a central node in Layer 3.
 - Node 82 (square) connects to a central node in Layer 3.
 - Node 79 (circle) connects to a central node in Layer 3.
- Layer 3 to Layer 4:**
 - Node 18 (circle) connects to a central node in Layer 4.
 - Node 17 (square) connects to a central node in Layer 4.
 - Node 16 (square) connects to a central node in Layer 4.
 - Node 15 (circle) connects to a central node in Layer 4.
 - Node 20 (circle) connects to a central node in Layer 4.
 - Node 19 (square) connects to a central node in Layer 4.
 - Node 21 (diamond) connects to a central node in Layer 4.
 - Node 22 (diamond) connects to a central node in Layer 4.
 - Node 23 (diamond) connects to a central node in Layer 4.
 - Node 52 (circle) connects to a central node in Layer 4.
 - Node 51 (square) connects to a central node in Layer 4.
 - Node 50 (square) connects to a central node in Layer 4.
 - Node 49 (circle) connects to a central node in Layer 4.
 - Node 54 (circle) connects to a central node in Layer 4.
 - Node 53 (square) connects to a central node in Layer 4.
 - Node 55 (diamond) connects to a central node in Layer 4.
 - Node 56 (diamond) connects to a central node in Layer 4.
 - Node 57 (diamond) connects to a central node in Layer 4.
 - Node 86 (circle) connects to a central node in Layer 4.
 - Node 85 (square) connects to a central node in Layer 4.
 - Node 84 (square) connects to a central node in Layer 4.
 - Node 83 (circle) connects to a central node in Layer 4.
 - Node 88 (circle) connects to a central node in Layer 4.
 - Node 87 (square) connects to a central node in Layer 4.
 - Node 89 (diamond) connects to a central node in Layer 4.
 - Node 90 (diamond) connects to a central node in Layer 4.
 - Node 91 (diamond) connects to a central node in Layer 4.