Translation of Signature-Based tree:

```
If destination IP <= 10.65.162.98
    if destination IP <= 10.1.4.12
        Normal
    if destination IP > 10.1.4.12
        if destination IP <= 10.11.27.189
            Malspam
        if destination IP > 10.11.27.189
            JexBossExploit
if destination IP > 10.65.162.98
    if source IP <= 10.65.162.98
        if source IP <= 10.0.8.99
            Normal
        if source IP > 10.0.8.99
            if source IP <= 10.11.27.189
                malspam
            if source IP > 10.11.27.189
                JexBossExploit
    if source IP > 10.65.162.98
        if destination port <= 55479
            if destination port <= 54900
                if sourcePort <= 5050
                    if destination port <= 7704
                        if sourceIP <= 178.144.255.150
                            if sourceIP <= 125.232.95.208
                                W32/SdbotInfected
                            if sourceIP > 125.232.95.208
                                normal
                        if sourceIP > 178.144.255.150
                            W32/SdbotInfected
                    if destination port > 7704
                        normal
                if sourcePort > 5050
                    if sourcePort <= 55479
                        if sourcePort <= 54900
                            normal
                        if sourcePort > 54900
                            NeutrinoExploit
                    if sourcePort > 55479
                        if sourcePort <= 58971
                            normal
                        if sourcePort > 58971
```

```
                            if destinationIP <= 147.31.121.65
                                PacketInjection
                            if destinationIP > 147.31.121.65
                                Normal
            if destination port > 54900
                neutrinoExploit #
        if destination port > 55479
            if destination port <= 58970
                normal
            if destination port > 58970
                If sourceIP <= 147.31.121.65
                    PacketInjection #
                If sourceIP > 147.31.121.65
                    normal
```

Translation of Anomaly-Based tree:

```
DestinationPort <= 55479
|   DestinationPort <= 54900
|   |   SourceIP <= 192.168.8.199
|   |   |   SourcePort <= 55479
|   |   |   |   SourcePort <= 54900
|   |   |   |   |   DestinationIP <= 194.171.20.235
|   |   |   |   |   |   SourcePort <= 80
|   |   |   |   |   |   |   DestinationPort <= 49206
|   |   |   |   |   |   |   |   DestinationPort <= 1134: Abnormal (25.0/1.0)
|   |   |   |   |   |   |   |   DestinationPort > 1134: Normal (233.0)
|   |   |   |   |   |   |   DestinationPort > 49206
|   |   |   |   |   |   |   |   SourceIP <= 67.64.162.135
|   |   |   |   |   |   |   |   |   SourcePort <= 53
|   |   |   |   |   |   |   |   |   |   SourceIP <= 10.0.8.99: Normal (8.0)
|   |   |   |   |   |   |   |   |   |   SourceIP > 10.0.8.99: Abnormal (2.0)
|   |   |   |   |   |   |   |   |   SourcePort > 53: Normal (15.0)
|   |   |   |   |   |   |   |   SourceIP > 67.64.162.135: Abnormal (102.0)
|   |   |   |   |   |   SourcePort > 80
|   |   |   |   |   |   |   DestinationPort <= 80
|   |   |   |   |   |   |   |   SourcePort <= 1134: Abnormal (24.0)
|   |   |   |   |   |   |   |   SourcePort > 1134
|   |   |   |   |   |   |   |   |   SourcePort <= 49206: Normal (175.0)
|   |   |   |   |   |   |   |   |   SourcePort > 49206
|   |   |   |   |   |   |   |   |   |   DestinationIP <= 67.64.162.135
|   |   |   |   |   |   |   |   |   |   |   DestinationPort <= 53
|  |  |  |  |  |  |  |  |  |  |  |  SourceIP <= 10.0.8.99: Normal (8.0)
|  |  |  |  |  |  |  |  |  |  |  |  SourceIP > 10.0.8.99: Abnormal (2.0)
|  |  |  |  |  |  |  |  |  |  |  DestinationPort >53: Normal (18.0)
|  |  |  |  |  |  |  |  |  |  DestinationIP > 67.64.162.135: Abnormal (44.0)
|  |  |  |  |  |  |  DestinationPort > 80
|  |  |  |  |  |  |  |  DestinationPort <= 5050
|  |  |  |  |  |  |  |  |  DestinationPort <= 2553
|  |  |  |  |  |  |  |  |  |  DestinationIP <= 190.213.190.227: Normal (1362.0)
|  |  |  |  |  |  |  |  |  |  DestinationIP > 190.213.190.227
|  |  |  |  |  |  |  |  |  |  |  DestinationPort <= 445: Normal (47.0)
|  |  |  |  |  |  |  |  |  |  |  DestinationPort > 445: Abnormal (17.0)
|  |  |  |  |  |  |  |  |  DestinationPort > 2553
|  |  |  |  |  |  |  |  |  |  SourceIP <= 178.144.255.150: Normal (15.0)
|  |  |  |  |  |  |  |  |  |  SourceIP > 178.144.255.150: Abnormal (16.0)
|  |  |  |  |  |  |  |  DestinationPort > 2553: Normal (1679.0)
|  |  |  |  |  DestinationIP > 194.171.20.235
|  |  |  |  |  |  SourcePort <= 1134: Abnormal (158.0/2.0)
|  |  |  |  |  |  SourcePort > 1134
|  |  |  |  |  |  |  SourcePort <= 32683: Normal (364.0)
|  |  |  |  |  |  |  SourcePort > 32682
|  |  |  |  |  |  |  |  SourceIP <= 89.34.83.17: Abnormal (140.0)
|  |  |  |  |  |  |  |  SourceIP > 89.34.83.17: Normal (30.0)
|  |  |  |  SourcePort > 54900: Abnormal (273.0)
|  |  |  SourcePort > 55479
|  |  |  |  SourcePort <=58971: Normal (3957.0/2.0)
|  |  |  |  SourcePort > 58971
|  |  |  |  |  SourcePort <=59362: Abnormal (82.0)
|  |  |  |  |  SourcePort > 59362: Normal (135.0)
|  |  SourceIP > 192.168.8.199
|  |  |  SourceIP <= 203.140.17.26
|  |  |  |  DestinationPort <= 29464
|  |  |  |  |  DestinationPort <= 1134: Abnormal (134.0)
|  |  |  |  |  DestinationPort > 1134: Normal (59.0)
|  |  |  |  DestinationPort > 29464: Abnormal (270.0/3.0)
|  |  |  SourceIP > 203.140.17.26
|  |  |  |  DestinationIP <= 178.144.255.150
|  |  |  |  |  SourceIP <= 212.8.166.151: Normal (353.0)
|  |  |  |  |  SourceIP > 212.8.166.151
|  |  |  |  |  |  DestinationIP <= 89.34.83.17: Abnormal (3.0)
|  |  |  |  |  |  DestinationIP > 89.34.83.17: Normal (19.0)
|  |  |  |  DestinationIP > 178.144.255.150: Abnormal (80.0)
|  DestinationPort > 54900: Abnormal (419.0)
DestinationPort > 55479
```

```
|   DestinationIP <= 192.168.8.199
|   |   DestinationPort <= 58971: Normal (5659.0/2.0)
|   |   DestinationPort > 58971
|   |   |   DestinationPort <= 59362: Abnormal (120.0)
|   |   |   DestinationPort > 59362: Normal (92.0)
|   DestinationIP > 192.168.8.199: Abnormal (55.0/1.0)
```

IP * 4294967295
Ports * 65536
Length * 4314
TCP Window Size * 261340
TCP Length 4260
UDP Length 835