Worker ---> Master

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Protocol** | **Direction** | **Port Range** | **Purpose** | **Used By** |
| TCP | Inbound | 6443 | Kubernetes API server | All |
| TCP | Inbound | 2379-2380 | etcd server client API | kube-apiserver, etcd |
| TCP | Inbound | 10250 | Kubelet API | Self, Control plane |
| TCP | Inbound | 10259 | kube-scheduler | Self |
| TCP | Inbound | 10257 | kube-controller-manager | Self |
| TCP | Inbound | 22 | SSH | Cluster node |
| TCP | Inbound | 9099-9100 | Calico | Cluster |
| TCP | Inbound | 179 | BGP | Cluster |
| TCP | Inbound | 10251-10256 | master | Cluster |
| TCP / UDP | Inbound | 53 | Dns | Cluster |
| TCP | Inbound | 5000 | Local-registry | Cluster |
| TCP | Inbound | 111 | NFS | Cluster |
| TCP | Inbound | 8443 | Metrics-server | Cluster |
| TCP | Inbound | 80 | Http | All |
| TCP | Inbound | 443 | Https | All |
| TCP | Inbound | 5473 | Calico | Cluster |
| UDP | Unbound | 6784 | weave | Cluster |
| UDP/TCP | Unbound | 6783 | weave | Cluster |

Master --> Worker

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Protocol** | **Direction** | **Port Range** | **Purpose** | **Used By** |
| TCP | Inbound | 10250 | Kubelet API | Self, Control plane |
| TCP | Inbound | 30000-32767 | NodePort Services† | All |
| TCP | Inbound | 22 | SSH | Cluster node |
| TCP / UDP | Inbound | 53 | Dns | Cluster |
| TCP | Inbound | 5000 | Local-registry | Cluster |
| TCP | Inbound | 111 | NFS | Cluster |
| TCP | Inbound | 8443 | Metrics-server | Cluster |
| TCP | Inbound | 80 | Http | All |
| TCP | Inbound | 443 | Https | All |
| UDP | Unbound | 6784 | weave | Cluster |
| UDP/TCP | Unbound | 6783 | weave | Cluster |