

Rancher v2.6.4

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Installing Rancher Manager v2.6.4 on a Kubernetes Cluster (i.e. Local Cluster)

RKE/RKE2/k3s Cluster to install Rancher Manager on certified OS and container runtime for RKE / RKE2 / k3s as the local cluster^{1,2,3,4,5}

A "Yes" in a k8s distribution (i.e. RKE, RKE2, k3s) column means this combination is supported, an "N/A" means it is not. If any combination of versions is not shown in the table, it is not supported. Docker version and containerd version are pinned to specific versions that have been validated.

OS	OS Version	K8s Version	RKE version supportability Recommended CLI Version: v1.3.8	Validated Docker Versions for RKE	RKE2 version supportability	k3s version supportability	Validated containerd version for RKE2 (and k3s)
SLES	15 SP3	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
	15 SP2	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
	15 SP1	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
	12 SP5	v1.22.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.21.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.20.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.19.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
SLE Micro ¹⁰	5.1	v1.22.x	N/A	N/A	N/A	Yes	v1.5.8-k3s1
		v1.21.x	N/A	N/A	N/A	Yes	v1.4.12-k3s1
		v1.20.x	N/A	N/A	N/A	Yes	v1.4.12-k3s1
		v1.19.x	N/A	N/A	N/A	N/A	N/A
		v1.18.x	N/A	N/A	N/A	N/A	N/A
OpenSUSE Leap	15.3	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.8-k3s1
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
CentOS	7.9	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
	7.8	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2

Oracle Linux	7.7	v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
	8.4	v1.21.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.20.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.19.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
	8.3	v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.4-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.4-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
	8.2	v1.21.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.20.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.19.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
7.9	v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2	
	v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.4-k3s1	
	v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.4-k3s1	
	v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A	
	v1.22.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A	
7.7	v1.21.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A	
	v1.20.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A	
	v1.19.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A	
	v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A	
	v1.22.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A	
RHEL	8.5	v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
	8.4	v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
	8.3	v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
	8.2	v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A
		v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
7.9	v1.22.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2	

		v1.21.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	N/A	N/A	N/A
	7.8	v1.22.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	N/A	N/A	N/A
	7.7	v1.22.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	N/A	N/A	N/A
		v1.21.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	N/A	N/A	N/A
		v1.20.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	N/A	N/A	N/A
		v1.19.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	N/A	N/A	N/A
		v1.18.x	Yes	RHEL 1.13.x, 20.10.x, 19.03.15	N/A	N/A	N/A
Rocky Linux	8.4	v1.22.x	Yes	20.10., 19.03.15x	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
Ubuntu	20.04	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A		N/A
	18.04	v1.22.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.5.7-k3s2
		v1.21.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.20.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.12-k3s1
		v1.19.x	Yes	20.10.x, 19.03.15	Yes	Yes	v1.4.11-k3s1
		v1.18.x	Yes	20.10.x, 19.03.15	N/A	N/A	N/A

RKE Local Cluster - Components & Architecture

k8s version	k8s Components ^{2,3,4,5}	Architecture
v1.22.7	etcd: v3.5.0 flannel: v0.17.0 canal: v3.21.1 nginx-ingress-controller: 1.1.0-rancher1	x86_64
v1.21.10	etcd: v3.4.16 flannel: v0.15.1 canal: v3.19.2 nginx-ingress-controller: 1.1.0-rancher1	x86_64
v1.20.15	etcd: v3.4.15 flannel: v0.15.1 canal: v3.17.2 nginx-ingress-controller: 1.1.0-rancher1	x86_64
v1.19.16	etcd: v3.4.15 flannel: v0.15.1 canal: v3.16.5 nginx-ingress-controller: 1.1.0-rancher1	x86_64

v1.18.20	etcd: v3.4.15 flannel: v0.15.1 canal: v3.13.4 nginx-ingress-controller: 0.35.0-rancher2	x86_64
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RKE2 Local Cluster - Components & Architecture

k8s version	k8s Components ^{2,3,4,5}	Architecture
v1.22.5+rke2r2	Etcd: v3.5.0-k3s2 Containerd: v1.5.8-k3s1 Runc: v1.0.3 Metrics-server: v0.5.0 CoreDNS: v1.8.5 Ingress-nginx: 4.0.3 Helm-controller: v0.11.8 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.15.1, Calico: v3.20.1) CNI: Calico v3.20.2 CNI: Cilium v1.10.4 CNI: Multus v3.7.1	x86_64
v1.21.8+rke2r2	Etcd: v3.4.13-k3s1 Containerd: v1.4.12-k3s1 Runc: v1.0.3 Metrics-server: v0.3.6 CoreDNS: v1.8.5 Ingress-nginx: 4.0.3 Helm-controller: v0.11.9 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.15.1, Calico: v3.20.1) CNI: Calico v3.19.2 CNI: Cilium v1.10.4 CNI: Multus v3.7.1	x86_64
v1.20.14+rke2r2	Etcd: v3.4.13-k3s1 Containerd: v1.4.12-k3s1 Runc: v1.0.3 Metrics-server: v0.3.6 CoreDNS: v1.8.5 Ingress-nginx: v4.0.3 Helm-controller: v0.11.7 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.14.1, Calico: v3.13.3) CNI: Calico v3.19.1 CNI: Cilium v1.9.8	x86_64
v1.19.16+rke2r1	Etcd: v3.4.13-k3s1 Containerd: v1.4.11-k3s1 Runc: v1.0.1 Metrics-server: v0.3.6 CoreDNS: v1.6.9 Ingress-nginx: v4.0.3 Helm-controller: v0.8.4 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.14.1, Calico: v3.13.3)	x86_64

k3s Local Cluster - Components & Architecture

k8s version	k8s Components ^{2,3,4,5}	Architecture
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v1.22.5+k3s2	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.13</p> <p>Kine v0.8.1 SQLite 3.36.0 Embedded Etcd v3.5.0-k3s2 Containerd v1.5.8-k3s1 Runc v1.0.3 Flannel v0.15.1 Metrics-server v0.5.0 Traefik v2.5.0 CoreDNS v1.8.4 Helm-controller v0.11.7 Local-path-provisioner v0.0.20</p>	x86_64
v1.21.8+k3s2	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.13</p> <p>Kine v0.6.5 SQLite 3.33.0 Embedded Etcd v3.4.13-k3s1 Containerd v1.4.12-k3s1 Runc v1.0.3 Flannel v0.15.1 Metrics-server v0.3.6 Traefik v2.4.8 CoreDNS v1.8.3 Helm-controller v0.10.8 Local-path-provisioner v0.0.19</p>	x86_64
v1.20.14+k3s2	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.15</p> <p>Kine v0.6.5 SQLite 3.33.0 Embedded Etcd v3.4.13-k3s3 Containerd v1.4.12-k3s1 Runc v1.0.0-rc95 Flannel v0.14.1 Metrics-server v0.3.6 Traefik v1.7.19 CoreDNS v1.8.3 Helm-controller v0.10.8 Local-path-provisioner v0.0.19</p>	x86_64
v1.19.16+k3s1	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.13</p> <p>Kine v0.6.2 SQLite 3.33.0 Embedded Etcd v3.4.13-k3s3 Containerd v1.4.11-k3s1 Runc v1.0.0-rc95 Flannel v0.14.1 Metrics-server v0.3.6 Traefik v1.7.19 CoreDNS v1.8.3 Helm-Controller v0.10.8 Local-path-provisioner v0.0.14</p>	x86_64
v1.18.20+k3s1	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5 MariaDB 10.3.20 External Etcd 3.3.15 CRI: embedded Containerd v1.3.10-k3s1 CNI: embedded Flannel v0.11.0-k3s.2</p>	x86_64

Hosted Kubernetes Cluster (AKS/EKS/GKE) to install Rancher Manager on

SERVICE	PROVIDER	HIGHEST VERSION VALIDATED/CERTIFIED ON‡
AKS	Microsoft Azure	v1.22.6
EKS	Amazon	v1.21.5-eks-bc4871b
GKE	Google	1.22.6-gke.300

Clusters managed by Rancher Manager (Downstream Clusters)

RKE Downstream Clusters

RKE Downstream Linux Clusters - Certified OS & Docker

A "Yes" in a column means this combination is supported, an "N/A" means it is not. If any combination of versions is not shown in the table, it's not supported.

OS	OS Version	Validated Docker Version ¹	Custom ⁹	Node Driver ⁹ - SLA Limited Built-In, Active ⁶					
				AWS Node Driver	Azure	Digital Ocean	Linode	vSphere 6.5, 6.7, 7.0 update 2a	
SLES	15 SP3	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	15 SP2	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	15 SP1	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	12 SP5	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	OpenSUSE Leap	15.3	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A
			19.03.15	Yes	N/A	N/A	N/A	N/A	N/A
CentOS	7.9	20.10.x	Yes	Yes	Yes	Yes	Yes	Yes	
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes	
	7.8	20.10.x	Yes	Yes	Yes	Yes	Yes	Yes	
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes	
	7.7	20.10.x	Yes	Yes	Yes	Yes	Yes	Yes	
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes	
Oracle Linux	8.4	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	8.3	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	8.2	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	7.9	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	7.7	20.10.x	Yes	N/A	N/A	N/A	N/A	N/A	
		19.03.15	Yes	N/A	N/A	N/A	N/A	N/A	
	RHEL	8.5	20.10.x	Yes	up to 20.10.7	up to 20.10.7	up to 20.10.7	up to 20.10.7	up to 20.10.7
			19.03.15	Yes	Yes	Yes	Yes	Yes	Yes
8.4		20.10.x	Yes	up to 20.10.7	up to 20.10.7	up to 20.10.7	up to 20.10.7	up to 20.10.7	
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes	

	8.3	20.10.x	Yes	up to 20.10.7				
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes
	8.2	20.10.x	Yes	up to 20.10.7				
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes
	7.9	RHEL 1.13.x	Yes	N/A	N/A	N/A	N/A	N/A
		20.10.x	Yes	up to 20.10.7				
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes
	7.8	RHEL 1.13.x	Yes	N/A	N/A	N/A	N/A	N/A
		20.10.x	Yes	up to 20.10.7				
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes
	7.7	RHEL 1.13.x	Yes	N/A	N/A	N/A	N/A	N/A
		20.10.x	Yes	up to 20.10.7				
		19.03.15	Yes	Yes	Yes	Yes	Yes	Yes
	Rocky Linux	8.4	20.10.x	Yes	N/A	N/A	N/A	N/A
			19.03.15	Yes	N/A	N/A	N/A	N/A
Ubuntu	20.04	20.10.x	Yes	Yes	Yes	Yes	Yes	
		19.03.15	Yes	Yes	Yes	Yes	Yes	
	18.04	20.10.x	Yes	Yes	Yes	Yes	Yes	
		19.03.15	Yes	Yes	Yes	Yes	Yes	

RKE Downstream Windows Clusters - Windows Worker Nodes

Note: Windows clusters are Linux Clusters with Windows worker nodes only.

Certified Windows Server, Docker, RKE k8s Version

Windows Server	Validated Docker Version ¹	RKE K8S Version	Windows Server EOM
Windows Server 2019 LTSC	19.03.x EE	1.22.x	1/19/2024
		1.21.x	
		1.20.x	
		1.19.x	
		1.18.x	
20H2 SAC	19.03.x EE	1.21.x	5/10/2022

Windows Worker Nodes is based off of:

Kubernetes Official Docs regarding /Windows Server Support

Microsoft Official Docs on Windows Server Support

Microsoft Official Docs on Windows Servicing Channels

RKE Downstream Clusters - Components & Architecture

k8s version	k8s Components ^{2,3,4,5}	Architecture
v1.22.7	etcd: v3.5.0 flannel: v0.17.0 canal: v3.21.1 nginx-ingress-controller: 1.1.0-rancher1	x86_64
v1.21.10	etcd: v3.4.16 flannel: v0.15.1 canal: v3.19.2 nginx-ingress-controller: 1.1.0-rancher1	x86_64

v1.20.15	etcd: v3.4.15 flannel: v0.15.1 canal: v3.17.2 nginx-ingress-controller: 1.1.0-rancher1	x86_64
v1.19.16	etcd: v3.4.15 flannel: v0.15.1 canal: v3.16.5 nginx-ingress-controller: 1.1.0-rancher1	x86_64
v1.18.20	etcd: v3.4.15 flannel: v0.15.1 canal: v3.13.4 nginx-ingress-controller: 0.35.0-rancher2	x86_64

RKE2/k3s Downstream Cluster - Imported Clusters Only

Imported RKE2/k3s Downstream Cluster - Certified OS

OS	OS Version	K8s Version ^{2,3,4,5}	Validated containerd version for RKE2 (and k3s) ^{2,3,4,5}
SLE Micro	5.1	v1.22.x	v1.5.8-k3s1
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	N/A
SLES	15 SP3	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	15 SP2	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	15 SP1	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
OpenSUSE Leap	15.3	v1.22.x	v1.5.8-k3s1
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
CentOS	7.9	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	7.8	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
Oracle Linux	8.3	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.4-k3s1
		v1.20.x	v1.4.4-k3s1

		v1.19.x	v1.4.4-k3s1
	7.9	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.4-k3s1
		v1.20.x	v1.4.4-k3s1
		v1.19.x	v1.4.4-k3s1
RHEL	8.5	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
	8.4	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	8.3	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	8.2	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	7.9	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	7.8	v1.22.x	v1.5.7-k3s2
v1.21.x		v1.4.12-k3s1	
v1.20.x		v1.4.12-k3s1	
v1.19.x		v1.4.11-k3s1	
Rocky Linux	8.4	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
Ubuntu	20.04	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1
	18.04	v1.22.x	v1.5.7-k3s2
		v1.21.x	v1.4.12-k3s1
		v1.20.x	v1.4.12-k3s1
		v1.19.x	v1.4.11-k3s1

Imported RKE2 Downstream Cluster - Components & Architecture

k8s version	k8s Components ^{2,3,4,5}	Architecture
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v1.22.5+rke2r2	Etcd: v3.5.0-k3s2 Containerd: v1.5.8-k3s1 Runc: v1.0.3 Metrics-server: v0.5.0 CoreDNS: v1.8.5 Ingress-nginx: 4.0.3 Helm-controller: v0.11.8 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.15.1, Calico: v3.20.1) CNI: Calico v3.20.2 CNI: Cilium v1.10.4 CNI: Multus v3.7.1	x86_64
v1.21.8+rke2r2	Etcd: v3.4.13-k3s1 Containerd: v1.4.12-k3s1 Runc: v1.0.3 Metrics-server: v0.3.6 CoreDNS: v1.8.5 Ingress-nginx: 4.0.3 Helm-controller: v0.11.9 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.15.1, Calico: v3.20.1) CNI: Calico v3.19.2 CNI: Cilium v1.10.4 CNI: Multus v3.7.1	x86_64
v1.20.14+rke2r2	Etcd: v3.4.13-k3s1 Containerd: v1.4.12-k3s1 Runc: v1.0.3 Metrics-server: v0.3.6 CoreDNS: v1.8.5 Ingress-nginx: v4.0.3 Helm-controller: v0.11.7 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.14.1, Calico: v3.13.3) CNI: Calico v3.19.1 CNI: Cilium v1.9.8	x86_64
v1.19.16+rke2r1	Etcd: v3.4.13-k3s1 Containerd: v1.4.11-k3s1 Runc: v1.0.1 Metrics-server: v0.3.6 CoreDNS: v1.6.9 Ingress-nginx: v4.0.3 Helm-controller: v0.8.4 CNI Plugins: v0.9.1 CNI: Canal (Flannel: v0.14.1, Calico: v3.13.3)	x86_64

Imported k3s Downstream Cluster - Components & Architecture

k8s version	k8s Components ^{2,3,4,5}	Architecture
v1.22.5+k3s2	Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.13 Kine v0.8.1 SQLite 3.36.0 Embedded Etcd v3.5.0-k3s2 Containerd v1.5.8-k3s1 Runc v1.0.3 Flannel v0.15.1 Metrics-server v0.5.0 Traefik v2.5.0 CoreDNS v1.8.4 Helm-controller v0.11.7 Local-path-provisioner v0.0.20	x86_64, ARM64, ARMv7

v1.21.8+k3s2	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.13</p> <p>Kine v0.6.5 SQLite 3.33.0 Embedded Etcd v3.4.13-k3s1 Containerd v1.4.12-k3s1 Runc v1.0.3 Flannel v0.15.1 Metrics-server v0.3.6 Traefik v2.4.8 CoreDNS v1.8.3 Helm-controller v0.10.8 Local-path-provisioner v0.0.19</p>	x86_64, ARM64, ARMv7
v1.20.14+k3s2	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.15</p> <p>Kine v0.6.5 SQLite 3.33.0 Embedded Etcd v3.4.13-k3s3 Containerd v1.4.12-k3s1 Runc v1.0.0-rc95 Flannel v0.14.1 Metrics-server v0.3.6 Traefik v1.7.19 CoreDNS v1.8.3 Helm-controller v0.10.8 Local-path-provisioner v0.0.19</p>	x86_64, ARM64, ARMv7
v1.19.16+k3s1	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5, 12.5, 13.1 MariaDB 10.4.8 External Etcd 3.4.13</p> <p>Kine v0.6.2 SQLite 3.33.0 Embedded Etcd v3.4.13-k3s3 Containerd v1.4.11-k3s1 Runc v1.0.0-rc95 Flannel v0.14.1 Metrics-server v0.3.6 Traefik v1.7.19 CoreDNS v1.8.3 Helm-Controller v0.10.8 Local-path-provisioner v0.0.14</p>	x86_64, ARM64, ARMv7
v1.18.20+k3s1	<p>Aurora (MySQL 5.7) 2.09.0 MySQL 5.7 PostgreSQL 11.5 MariaDB 10.3.20 External Etcd 3.3.15 CRI: embedded Containerd v1.3.10-k3s1 CNI: embedded Flannel v0.11.0-k3s.2</p>	x86_64, ARM64, ARMv7

Hosted Kubernetes Downstream Clusters (AKS/EKS/GKE)

Note: Hosted Kubernetes clusters can be either provisioned by Rancher Manager or registered into Rancher Manager

Certified K8S Versions

SERVICE	PROVIDER	HIGHEST VERSION CERTIFIED ON†	Notes
AKS	Microsoft Azure	v1.22.6	
EKS	Amazon	v1.21.5-eks-bc4871b	Amazon Linux 2 is certified on Managed Node Groups

GKE	Google	v1.22.7-gke.900	
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Imported Kubernetes Downstream Clusters

Note: Any other type of Kubernetes cluster can be imported into Rancher

Certified K8S Versions

TYPE	HIGHEST VERSION CERTIFIED ON [‡]
Any	1.21.7
Any	1.20.13
Any	1.19.16
Any	1.18.20
EKS	v1.20.2

Rancher Continuous Delivery

APP VERSION ^{2 3 4 5}
v0.3.9

Apps & Marketplace

Rancher Apps

FEATURE	APP NAME	APP VERSION ^{2 3 4 5}
Alerting and Monitoring	rancher-monitoring	19.0.3
Istio	rancher-istio	1.11.700
Logging	rancher-logging	3.15.0
CIS	rancher-cis-benchmark	2.0.3
Rancher Backup	rancher-backup	2.1.1

Rancher Longhorn

Version	Validated/certified on ^{2 3 4 5}
v1.1.3	Default settings of individual components
v1.2.4	Default settings of individual components

Partner Apps^{7 8}

Legacy Apps

TYPE	VERSION	Highest Kubernetes Version	VALIDATED/CERTIFIED ON ^{2 3 4 5}
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Monitoring/Alerts/Notifiers	0.3.1	v1.21.7	0.3.1 prometheus: v2.18.2 prometheus-operator: v0.40.0 prometheus-config-reloader:v0.40.0 prometheus-auth: v0.2.2 node-exporter: v1.0.1 kube-state-metrics: v2.0.0 configmap-reload: v0.3.0 grafana: v7.5.8 nginx: 1.21.1-alpine
Istio Service Mesh	v1.5.920	v1.20.13	istio-citadel: v1.5.9 istio-galley: v1.5.9 istio-proxyv2: v1.5.9 istio-pilot: v1.5.9 istio-mixer: v1.5.9 istio-sidecar_injector: v1.5.9 jaegertracing-all-in-one: v1.14 kiali-kiali: v1.17 istio-node-agent-k8s: v1.5.9 coredns-coredns: v1.6.2 prom-prometheus: v2.12.0 jetstack-cert-manager-controller: v0.8.1
Logging/Project Logging	v0.3.0	v1.20.13	fluentd:v0.1.29 log-aggregator:v0.1.8 configmap-reload:v0.3.0-rancher4
Pipelines	v0.1.4	v1.20.13	pipeline-jenkins-server:v0.1.4 pipeline-tools:v0.1.16 mirrored-jenkins-jnlp-slave:4.7-1
CIS	CIS 1.5	v1.20.13	security-scan:v0.1.14

Legacy App Catalog

TYPE	TAG	SLA APPLIES
Library	None	To the extent of being able to launch app with default configurations ⁷
	Partner	To the extent of being able to launch app with default configurations ^{7 8}
	Experimental	N/A

† All “latest” tagged releases are intended for the Rancher community users to test-drive a new release and provide feedback. These “latest” tagged releases whilst covered by Rancher SLA are not generally meant for production use cases. Kindly use only the “stable” tagged releases for your own production use cases.

⁰ For open source components not listed in the matrix above, support is limited to troubleshooting for root cause up to Rancher’s drivers and interfaces to those components. Root causes that are identified to be beyond this limit will need to be pursued by Company with the maintainers and providers of commercial support for those components.

⁰⁰ for ensuring best support and clarity on supportability, Company is recommended to publish to Rancher a list of components that are critical to its deployment but not explicitly called out in the support matrix

¹ certified on default OS kernel. Issues resulting from third party tools (typically, for reasons such as security) interfering with Docker or other necessary system calls are deemed resolved should disabling such tools restore functionality

² certified configurations are based on default settings of individual components. Where Company has deviated from certified configurations, Rancher Labs reserves the right to recommend the Company to revert to a certified configuration to resolve the reported issue.

³ whilst running Kubernetes clusters in uncertified configurations may be possible, it is not recommended

⁴ upgrade of any individual component to a different version is likely to result in system downtime

⁵ changes to default settings of individual components may be necessary on exceptional basis, for reasons such as fine tuning for performance and scale. Engagement with Rancher Consulting or a partner may be recommended.

⁶ SLA on node drivers is limited to those that are built-in and active by default when Rancher is installed

⁷ SLA does not apply to issues within an application and its lifecycle management

⁸ issues may be referred to the partner as appropriate

⁹ "custom" means creating a cluster by generating a command line and pasting this command into existing VMs. "node driver" means creating VMs directly from Rancher when it connects to vSphere or other hypervisor

¹⁰ Currently Rancher Server running on k3s under SLE Micro has two support exceptions: (1) Rancher Logging has a permission issue on SLE Micro 5.1 and is not functioning (2) Rancher CIS scanning tool has issues with the way it is checking journalctl

‡ SLA is limited to running workload clusters on hosted kubernetes provider and does not apply to running the Rancher control plane on one of the listed hosted kubernetes providers for all Rancher versions older than Rancher v2.5.x. In Rancher v2.5.x, SLA applies to running Rancher control plane on the listed kubernetes distributions and hosted providers.