Maintainer(s):
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(justbaugustus (Stephen Augustus)

Feature Name	Feature Status	Stage Status	Stage	SIG	Assignee	k/k PR(s)	Associated PR(s)	Needs Docs?	Docs Status	k8s.io Docs PR	Test Status	Failing Tests	One Line Release Note Description	Needs Doc Review	Needs Tech Review	Merged	Notes
212: Provide RunAsGroup feature for Containers in a Pod	Planned	Graduating	Alpha	node	krmayankk			None Required	N/A				Provide RunAsGroup feature for Containers in a Pod				Pending e2e test
366: Implement IPV6 based in-cluster service load balancing	In Progress	Graduating	Stable	network	m1093782566, Lion-Wei		community#1578	Yes	Complete	8953			IPV6-based kube-proxy graduates to GA				justaugustus: Exception approved by jberkus
279: Limit node access to API	In Progress	Graduating	Beta	auth	liggitt, mikedanese			None Required	Complete	8411			The NodeRestriction admission plugin now prevents kubelets from modifying taints applied to their Node API object				
281: Dynamic Kubelet Configuration	In Progress	Graduating	Beta	node	mtaufen			Yes	Complete	8766			New Kubelet configurations can be rolled out in a live cluster				
284: Add support for resizing PVs	Planned	Graduating	Beta	storage	gnufied		64298	Yes	Complete	Website#8896			Add support for resizing existing PVs				
292: CRI validation test suite	Planned	Graduating	Stable	node	feiskyer		community#6218d	None Required	N/A				Provide a serial of common validation test suites for Kubelet CRI				
34: Add sysctl support	In Progress	Graduating	Beta	node	sttts			Yes	Complete	8954			Extending the current pod specification with support for namespaced kernel parameters (sysctls) set for each pod				
427: Enable CoreDNS as a DNS plugin for Kubernetes	In Progress	Graduating	Stable	network	johnbelamaric		PR list	Yes	Complete	several; see list			CoreDNS is now a GA option as the cluster DNS addon, and is the default when using kubeadm				Broken down into multiple PRs. The list is provided in the 'PR list' link (currently stored in the kubeadm repo).
498: StorageObjectInUseProtection (was: Persistent Volume Claim Protection)	In Progress	Graduating	Stable	storage	pospispa			Yes	Complete	8159			Prevent deletion of Storage Object that is in active Use (was Prevent deletion of Persistent Volume Claims that are used by a pod in 1.9)				
499: StorageObjectInUseProtection (was: Persistent Volume Protection)	In Progress	Graduating	Stable	storage	pospispa			Yes	Complete	8261			Prevent deletion of Storage Object that is in active Use (was Prevent deletion of Persistent Volume that is bound to a Persistent Volume Claim)				
502: ClusterRole Aggregation	In Progress	Graduating	Stable	auth	deads2k			Has Docs	N/A	already merged			Add a way for API extenders to add permissions to existing roles				
513: Add support for Azure Virtual Machine Scale Sets	In Progress	Graduating	Beta	azure	feiskyer			None Required	N/A				Add beta support for Azure Virtual Machine Scale Sets (VMSS)				
514: Add Azure support to cluster-autoscaler	Planned	Graduating	Beta	azure	feiskyer			None Required	N/A				Add beta Azure support to cluster-autoscaler				
531: Add support for online resizing of PVs	In Progress	Net New	Alpha	storage	mkimuli		community#1535	Yes	Complete	Website#8896			Allow PVs to be resized without having to terminate pods and unmount volume first				
542: TokenRequest API and Kubelet integration	Planned	Net New	Alpha	auth	mikedanese			None Required	N/A				Add a TokenRequest API to request bound serviceaccount tokens				
544: Custom Resource Definition Versioning	In Progress	Net New	Beta	api-machinery	mbohlool			Yes	Complete	website#8904			Versioning for Custom Resources including a way to plug conversion for different versions				
547: Add support for Windows Container Configuration in CRI	In Progress	Graduating	Beta	node	feiskyer	64009		None Required	N/A				Add security context for Windows Container Configuration in CRI				
548: Schedule DaemonSet Pods by kube-scheduler	In Progress	Net New	Alpha	scheduling	k82cn			Yes	Complete	website#8942	Complete		When the feature enabled, the DaemonSet pods is scheduled by default scheduler instead of DaemonSet controller.				
552: CRI logging, stats, and more	In Progress	Graduating	Beta	node	yujuhong			None Required	Complete	8965	Complete		Continue improving CRI in various aspects to better support non-docker runtimes				
554: Dynamic Maximum volume count	In Progress	Net New	Alpha	storage	gnufied			Yes	Complete	website#8971			Add support for dynamic and generic mechanism of maximum volume per node				
559: Provide environment variables expansion in sub path mount	In Progress	Net New	Alpha	storage	kevtaylor			Yes	Complete	8835	Complete		Provide environment variables expansion in sub path mount				
564: Add pod priority and preemption	Planned	Graduating	Beta	scheduling	bsalamat			Yes	Complete	8144			Pod priority and preemption enables Kubernetes scheduler to schedule more important Pods first and when cluster is out of resources, it removes less important pods to create room for more important ones. The importance is specified by priority.				
571: Subresources for Custom Resources	Planned	Graduating	Beta	api-machinery	nikhita			Yes	Complete	8519			Subresources for Custom Resources is now beta and enabled by default.				
88: Supporting out-of-tree/external Cloud Providers	Planned	Graduating	Beta	cloud-provider	andrewsykim			None Required	Complete	8759			Supporting out-of-tree/external cloud providers				

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117: Arbitrary / Custom Metrics in the Horizontal Pod Autoscaler	Removed from Milestone	Graduating	Beta	autoscaling	directxman12			Yes	Draft	8757			Revised Horizontal Pod Autoscaler v2, including support for specifying label selectors to select more specific metrics.				
127: Support node-level user namespace remapping	Removed from Milestone	Net New	Alpha	node	derekwaynecarr	64005		Yes	Late				Support node-level user namespace remapping				Jbarkus Spoke to contributor, docs will be late but are being worked on.
135: Seccomp	Removed from Milestone	Net New	Alpha	auth	tallclair			Needs Update	N/A				Seccomp support is providing the ability to define seccomp profiles and configure pods to run with those profiles. This includes the ability control usage of the profiles via PSP as well as maintaining the ability to run as unconfined or with the default container runtime profile.				
277: Debug Containers	Removed from Milestone		Alpha	node	verb								Support advanced troubleshooting of running pods by running a new container image in shared pod namespaces				
351: Raw block device using persistent volume source	Removed from Milestone	Graduating	Beta	storage	erinboyd, screeley44, mtanino			None Required	N/A				Make raw block devices (non-networked) available for consumption via a Persistent Volume Source				This did not make it in to 1.11. Please remove from spreadsheet.
382: Taint node by Condition		Beta	scheduling	k82cn									Represent node conditions that block scheduling using taints				
43: Kubelet TLS Bootstrap	Removed from Milestone	Graduating	Beta	auth	mikedanese			None Required	N/A				kubelet generates a private key and a CSR for submission to a cluster-level certificate signing process				
491: kubectl diff	Removed from Milestone	Graduating		cli	apelisse			None Required	N/A				Users can run a kubectl command to view the difference between a locally declared object configuration and the current state of a live object				
515: kubectl get and describe should work well with extensions	Removed from Milestone		Beta	cli	smarterclayton								kubectl get should get columns back from the server, not the client, to allow extensions to work cleanly			One PR is	Looks like only 1 of a dozen checklist items actually got completed for 1.11. Awaiting confirmation that that's all. If it is, no docs are needed.
543: Move Snapshot Support in-tree	Removed from Milestone		Alpha	storage	jingxu97, xing-yang	community#1652							PV snapshot/restore functionality is available as an external add-on. This moves PV snapshot/restore in-tree and makes it a first class feature				
546: Allow end users to tweak maximum number of pids	Removed from Milestone	Graduating	Alpha	node	dims			Yes	Has PR	8311			The alpha feature "SupportPodPidsLimit" is set by the cluster administrator. Application deployers should be able to request/tweak the limits for their own applications.				
551: taint node "shutdown" condition	Removed from Milestone		Alpha	node	yastij								taint node "shutdown" condition				
555: Server-side Apply	Removed from Milestone		Alpha	api-machinery	apelisse			Yes					Move "apply" and declarative object management from kubectl to the apiserver in order to fix many of the existing bugs that we can't fix today. Also use that opportunity to add "field ownership".				
556: Add resizing support to CSI volumes	Removed from Milestone		Alpha	storage	gnufied								Add resizing support to CSI volumes				
557: Kubernetes CSI topology support	Removed from Milestone	Net New	Alpha	storage	verult, vladimirvivien			None Required	N/A				Kubernetes CSI topology support				
558: GCE PD topology support	Removed from Milestone	Net New	Alpha	storage	msau42, verult			None Required	N/A				GCE PD topology support				
561: Topology aware dynamic provisioning	Removed from Milestone	Net New	Alpha	storage	msau42, lichuqiang			None Required	N/A				Topology aware dynamic provisioning				
562: Local storage dynamic provisioning	Removed from Milestone	Net New	Alpha	storage	msau42, lichuqiang			None Required	N/A				Local storage dynamic provisioning				
563: Add IPv4 / IPv6 dual-stack support	Removed from Milestone		Alpha	network	leblancd								IPv4 / IPv6 dual-stack support and awareness for Kubernetes pods, nodes, and services				

						Features per SIG			Docs Stats	
Alpha	6					api-machinery	2		Docs needed	14
Beta	12					apps	0		Docs PR exists	18
Stable	6					architecture	0		Docs not needed	9
TOTAL	24					auth	3		Docs unknown	0
						autoscaling	0			
						aws	0			
						azure	2			
						big-data	0			
						cli	0			
						cloud-provider	1			
						cluster-lifecycle	0			
						cluster-ops	0			
						contribex	0			
						docs	0			
						gcp	0			
						ibmcloud	0			
						instrumentation	0			
						multicluster	0			
						network	2			
						node	6			
						openstack	0			
						pm	0			
						release	0			
						scalability	0			
						scheduling	2			
						service-catalog	0			
						storage	6			
						testing	0			
						ui	0			
						vmware	0			
						windows	0			
						Total	24			