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KUBERNETES STIG REVISION HISTORY

Version 2, Release 1

24 July 2024

Developed by DISA for the DOD

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REVISION HISTORY			
Revision Number	Document Revised	Description of Change	Release Date
V2R1	- Kubernetes STIG, V1R11	<ul style="list-style-type: none"> - CNTR-K8-001160, CNTR-K8-000700 - Updated based on NIST SP 800-53 Rev. 5 changes. - Because this is a major revision, version numbers were incremented to the next whole number. - Rule numbers updated throughout due to changes in content management system. 	24 July 2024
V1R11	- Kubernetes STIG, V1R10	<ul style="list-style-type: none"> - CNTR-K8-000180, CNTR-K8-000190, CNTR-K8-000220, CNTR-K8-000320, CNTR-K8-000340, CNTR-K8-000350, CNTR-K8-000360, CNTR-K8-001480, CNTR-K8-001510, CNTR-K8-001520, CNTR-K8-001530, CNTR-K8-002011, CNTR-K8-002600 - Updated vulnerability discussion, check, and fix. - CNTR-K8-000270 - Updated associated SRGs and vulnerability discussion. - CNTR-K8-000700, CNTR-K8-001400 - Updated fix text and associated SRGs. - CNTR-K8-000440 - Updated check to address Control Plane and Worker nodes. Changed "Node" to "node". - CNTR-K8-000470, CNTR-K8-000610, CNTR-K8-001430, CNTR-K8-002630, CNTR-K8-003290 - Updated check and fix text. - CNTR-K8-000600 - Removed requirement; duplicate of CNTR-K8-000700. - CNTR-K8-003330 - Updated check. - CNTR-K8-001990 - Removed requirement; duplicate of CNTR-K8-000270. - CNTR-K8-003140, CNTR-K8-003150, CNTR-K8-003270 - Updated rule title and vulnerability discussion. 	25 October 2023
V1R10	- Kubernetes STIG, V1R9	<ul style="list-style-type: none"> - CNTR-K8-000270 - Changed check for clarity and consistency. - CNTR-K8-000330 - Revised text. The read-only-port option has been deprecated and replaced by the readOnlyPort KubeletConfiguration field. Removed 	26 July 2023

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		<p>procedure for control plane version worker nodes.</p> <ul style="list-style-type: none"> - CNTR-K8-000370 - The anonymous-auth option has been deprecated and replaced by the "enabled" KubeletAnonymousAuthentication field. Removed procedure for control plane version worker nodes. - CNTR-K8-000380 - Revised text. The authorization-mode option has been deprecated and replaced by the "mode" field in KubeletAuthorization. Removed procedure for control plane version worker nodes. - CNTR-K8-000440 - Changed check and fix to reflect staticPodPath is a valid field for KubeletConfiguration. - CNTR-K8-000450 - Revised text. The kubelet feature-gates option has been deprecated and replaced by the "featureGates" field in KubeletAuthorization. - CNTR-K8-000460 - Revised text. The DynamicKubeletConfig flag was deprecated as of v1.22 and will be removed after v1.25 (end of life 28 October 2023). The kubelet feature-gates option has been deprecated and replaced by the "featureGates" field in KubeletAuthorization. - CNTR-K8-000850 - Revised check and fix as hostname-override is a valid kubelet option. - CNTR-K8-000880, CNTR-K8-000890 - Changed control to refer to KubeletConfiguration file instead of Kubernetes kubelet configuration. - CNTR-K8-000900 - Merged discussion, check, and fix from CNTR-K8-003250, which is being removed. - CNTR-K8-001300 - Revised text. The streaming-connection-idle-timeout option has been deprecated and replaced by the streamingConnectionIdleTimeout KubeletConfiguration field. 	

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		<ul style="list-style-type: none"> - CNTR-K8-001410 - Updated discussion to match the check. - CNTR-K8-001420 - Revised text. The client-ca-file option has been deprecated and replaced by the clientCAFile KubeletConfiguration field. Removed redundant API server manifest check. - CNTR-K8-001460 - Revised text. The tls-private-key-file option has been deprecated and replaced by the tlsPrivateKeyFile KubeletConfiguration field. - CNTR-K8-001470 - Revised text. The tls-cert-file option has been deprecated and replaced by the tlsCertFile KubeletConfiguration field. - CNTR-K8-001620 - Revised text. The protect-kernel-defaults option has been deprecated and replaced by the protectKernelDefaults KubeletConfiguration field. - CNTR-K8-001990 - Changed fix for clarity and consistency. - CNTR-K8-002001 - Revised text. The kubelet feature-gates option has been deprecated and replaced by the "featureGates" field in KubeletAuthorization. - CNTR-K8-002630, - CNTR-K8-002640 - Changed severity to CAT I. - CNTR-K8-003160, CNTR-K8-003170 - Revised text. The client-ca-file option has been deprecated and replaced by the clientCAFile KubeletConfiguration field. - CNTR-K8-003190, - CNTR-K8-003200 - Changed control to refer to KubeConfig file instead of Kubernetes kubelet conf. - CNTR-K8-003250 - Removed this requirement and merged the information into CNTR-K8-000900. - CNTR-K8-003260 - Rewrote the commands used by the check and fix to be recursive. - CNTR-K8-003330, CNTR-K8-003340 - Changed the "find" piped into "xargs" to be recursive into subdirectories. 	

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		- CNTR-K8-003350 - Removed requirement, which was a duplicate of CNTR-K8-000170.	
V1R9	- Kubernetes STIG, V1R8	- CNTR-K8-003340 - Added sudo to the check. - Rule Key IDs updated due to changes in content management system.	27 April 2023
V1R8	- Kubernetes STIG, V1R7	- CNTR-K8-002700 - Rule number updated due to changes in content management system. - CNTR-K8-003340 - Modified the executable command.	26 January 2023
V1R7	- Kubernetes STIG, V1R6	- CNTR-K8-000150, CNTR-K8-000160, CNTR-K8-000170, CNTR-K8-000180, CNTR-K8-000190, CNTR-K8-000220, CNTR-K8-000270, CNTR-K8-000300, CNTR-K8-000310, CNTR-K8-000320, CNTR-K8-000340, CNTR-K8-000350, CNTR-K8-000360, CNTR-K8-000400, CNTR-K8-000410, CNTR-K8-000420, CNTR-K8-000430, CNTR-K8-000450, CNTR-K8-000460, CNTR-K8-000470, CNTR-K8-000600, CNTR-K8-000610, CNTR-K8-000700, CNTR-K8-000860, CNTR-K8-000890, CNTR-K8-000900, CNTR-K8-000910, CNTR-K8-000920, CNTR-K8-000930, CNTR-K8-000940, CNTR-K8-000950, CNTR-K8-000960, CNTR-K8-001160, CNTR-K8-001360, CNTR-K8-001400, CNTR-K8-001410, CNTR-K8-001430, CNTR-K8-001440, CNTR-K8-001450, CNTR-K8-001460, CNTR-K8-001470, CNTR-K8-001480, CNTR-K8-001490, CNTR-K8-001500, CNTR-K8-001510, CNTR-K8-001520, CNTR-K8-001530, CNTR-K8-001540, CNTR-K8-001550, CNTR-K8-001620, CNTR-K8-001990, CNTR-K8-002000, CNTR-K8-002010, CNTR-K8-002600, CNTR-K8-002620, CNTR-K8-002630, CNTR-K8-002640, CNTR-K8-002700, CNTR-K8-002720, CNTR-K8-003110, CNTR-K8-003120, CNTR-K8-003130, CNTR-K8-003140, CNTR-K8-003150,	27 October 2022

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		CNTR-K8-003160, CNTR-K8-003170, CNTR-K8-003250, CNTR-K8-003260, CNTR-K8-003270, CNTR-K8-003280, CNTR-K8-003290, CNTR-K8-003300, CNTR-K8-003310, CNTR-K8-003320, CNTR-K8-003350 - Removed Master Node and replaced with "Control Plane". - CNTR-K8-000330, CNTR-K8-000370, CNTR-K8-000380, CNTR-K8-000440, CNTR-K8-000850, CNTR-K8-000880, CNTR-K8-001300, CNTR-K8-001420 - Removed Master Node and replaced with "Control Plane". Changed check and fix to be accurate and consistent. - CNTR-K8-002000, CNTR-K8-002010 - Add comments to check that PSP will be deprecated and to use the new Pod Security Admission Controller requirements. - CNTR-K8-002001, CNTR-K8-002011 - PSP has been deprecated; Kubernetes must have Pod Security Admission set.	
V1R6	- Kubernetes STIG, V1R5	- CNTR-K8-001460, CNTR-K8-001470, CNTR-K8-001620 - Corrected typo in Fix: "kuberlet" to "kubelet."	27 July 2022
V1R5	- Kubernetes STIG, V1R4	- CNTR-K8-001300 - Changed wording of vulnerability discussion and check to consider the default configuration value that already satisfies the requirement. - CNTR-K8-001480 - Changed discussion to reflect correct parameter. - CNTR-K8-002010 - PodSecurity replaced the depreciated PodSecurityPolicy admission controller. - CNTR-K8-003140, CNTR-K8-003160, CNTR-K8-003190, CNTR-K8-003230 - Changed fix from chown to chmod.	27 April 2022
V1R4	- Kubernetes STIG, V1R3	- CNTR-K8-000320, CNTR-K8-000920, CNTR-K8-000940 - Removed deprecated --insecure-port. - CNTR-K8-001450 - Changed control to look for this setting in etcd.yaml. Changed discussion to reflect correct parameter.	27 January 2022

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		<ul style="list-style-type: none"> - CNTR-K8-001490 - Changed control to refer to key-file, not keyfile, and to look for setting in Kubernetes etcd manifest. - CNTR-K8-001500 - Changed control to refer to cert-file, not certfile, and to look for setting in Kubernetes etcd manifest. - CNTR-K8-001510, CNTR-K8-001520, CNTR-K8-001530 - Changed control to look for setting in kube-apiserver.yaml. - CNTR-K8-001540, CNTR-K8-001550 - Changed discussion to reflect correct parameter. - CNTR-K8-002010 - Removed deprecated Docker entry. 	
V1R3	- Kubernetes STIG, V1R2	<ul style="list-style-type: none"> - CNTR-K8-000220 - Changed the param name "use-service-account-credentials" not "use-service-account-credential". - CNTR-K8-000890 - Corrected discussion to address least privilege and not "owned by root". - CNTR-K8-001400 - Removed cipher suites using the CHACHA20_POLY1305. Removed extra space before _SHA256. - CNTR-K8-001420, CNTR-K8-001460 - Changed discussion filename to match the check. - CNTR-K8-001490 - Changed control to address etcd param "key-file" rather than "etcd-key-file". 	27 October 2021
V1R2	- Kubernetes STIG, V1R1	<ul style="list-style-type: none"> - CNTR-K8-000180, CNTR-K8-000190 - Modified Vulnerability Discussion to match Check and Fix. - CNTR-K8-001300 - Changed SRGID to SRG-APP-000190-CTR-000500. - CNTR-K8-001480 - Updated control to address peer-client-cert-auth. - CNTR-K8-001500 - Updated control to address certfile instead of etcd-certfile. - CNTR-K8-002620 - Updated text to state basic-auth-file should not be set. - CNTR-K8-002620, CNTR-K8-002630, CNTR-K8-002640 - Changed SRGID to SRG-APP-000439-CTR-001080. 	23 July 2021

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		<ul style="list-style-type: none">- CNTR-K8-003170 - Changed check for file mode for Kubelet to be client-ca-file.- CNTR-K8-003210, CNTR-K8-003220 - Updated Rule Title, Check, and Fix to refer to kubeadm.conf.- CNTR-K8-003250 - Corrected text that incorrectly updates the ownership rather than file mode.- CNTR-K8-003310 - Replaced audit-log-path with audit-log-maxage.- CNTR-K8-003320 - Revised finding statement in Check to reference this is a finding if not set to a valid path.	
V1R1	- NA	- Initial Release.	13 April 2021