Binary Authorization

Google's BCID (Borg Caller ID)

BCID is an internal tool at Google whose mission is to help ensure that all code running in production is properly reviewed and authorized.

To ensure that jobs have been "LGTM'd"



BCID's goals are **Data Protection** and **Change Management**.



Jobs that have access to user data

Binary Authorization



Internal tool Customer facing

BCID

How can we ensure that the customer CI/CD pipeline is used and used correctly?

Binary Authorization provides deployment control for Google's Container Engine (GKE).

Let's get started on the MVP UX flow.

Security

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Security Command Center
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Identity-aware proxy

Cryptographic keys

Binary authorization

Welcome to Binary Authorization Binary Authorization provides deployment control for Google Kubernetes Engine (GKE). Learn more Binary authorization set-up Binary Authorization docs

Learn more about Binary Authorization capabilities and its features.

Check out our quick start Codelab.

→ View documentation

→ View Codelab

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	Security	Binary Authorization	FDIT POLICY		* PERMISSIONS				
-	Security Command Center	POLICY ATTESTOR	S						
ĩ	Identity-aware proxy Cryptographic keys	Binary authorization lets you restrict which images can be deployed to a Kubernetes Engine cluster by making sure they pass through the appropriate checkpoints in your deployment workflow. Learn more							
-	Binary authorization	Policy deployment rules 💿							
		Project default rule 💿	Allow only images that have been approved by all of the following attestors:						
			• Dev Signer This is for the dev Signer						
			Trusted builder Centralized secure build pipeline for all production jobs						
		Cluster-specific rules ⑦	 						
		Dry run mode 💿	Not enabled						
		Images exempt from policy 📀							

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-	Security Command Center	POLICY ATTESTOR	S							
_	ldentity-aware proxy Cryptographic keys	Binary authorization lets you restrict which images can be deployed to a Kubernetes Engine cluster by making sure they pass through the appropriate checkpoints in your deployment workflow. Learn more								
	Binary authorization	Policy deployment rules 💿								
		Project default rule ⑦	Allow only images that have been approved by all of the following attestors:							
			 Dev Signer This is for the dev Signer Trusted builder Centralized secure build pipeline for all production jobs 							
		Cluster-specific rules ③	 ClusterFoo Default: Allow all images ClusterBar Default: Allow all images ClusterFB Attestors required: Dev signer, Prod reviewer 							
		Dry run mode ⊘	Not enabled							
		Images exempt from policy \oslash	gcr.io/google-appengine/nodejs* docker.io/nginx*							

Security	← Edit policy
 Security Command Center Identity-aware proxy Cryptographic keys Binary authorization 	Deployment rules Applies to this project and all clusters that don't have a cluster-specific rule. When a container image is deployed, a deployment rule will be applied underses the image is exempted as specified in the section below. Project default rule Image: Image:

Security	← Edit policy
 Security Command Center Identity-aware proxy Cryptographic keys Binary authorization 	Deployment rules Applete to this project and all clusters that don't have a cluster specific rule. When a container image is deployed, a deployment rule will be applied unless the image is exempted as specified in the section below. Project default rule ② I cluster will images I cluster will images I cluster will images I cluster specific due to not block disallowed by all of the following attestors I cluster specific rules Deployment rules for specific clusters. Project default rules wont apply to a cluster if a cluster-specific rule is defined. I cluster s[3], Cluster rules [0] I mages exempt from deployment rule checks. Wildcards (*) are allowed in Image paths. I mage paths [0] I cancel SVEF POLICY CANCEL

Security	← Edit policy					
Security Command Center Identity-aware proxy Cryptographic keys Binary authorization	Applies to this project and all clusters that don't have a cluster-specific rule. When a container image is deployed, a deployment rul be applied unless the image is exempted as specified in the section below. Project default rule ⑦					
	 Disallow all images Allow only images that have bee ADD ATTESTORS Dry run mode ⑦	Add attestors Attestors have the author The Filter attestors	ity to make statements about an image. <u>Learn more</u>			
	 Audit log but do not block disal Cluster-specific rules Deployment rules for specific cluster 	Attestors	Description			
		custom approver	This is a new attestor			
		✓ Trusted Builder	Centralized secure build pipeline for all production jobs			
	Active clusters [3], Cluster rules [QA Signer	Team performs functionality tests and integration tests			
		Dev Signer	This is for the dev Signer			
	Images exempt from deployme	Legal	Legal team reviews for policy violations			
	Images listed here are exempt from	Prod reviewer	Reviews for production readiness			
		Sec scanner	Security scanner for known vulnerabilities			
	Image paths [0]	CREATE NEW ATTE	ESTOR			
	SAVE POLICY CANCEL		CANCEL ADD 2 ATTESTORS			

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Security	← Edit policy						
 Security Command Center Identity-aware proxy Cryptographic keys Binary authorization 	Deployment rules Applies to this project and all clusters that don't have a cluster-specific rule. When a container image is deployed, a deployment rule will be applied unless the image is exempted as specified in the section below. Project default rule ③ Allow all images Disallow all images Allow only images that have been approved by all of the following attestors Approvers Description						
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	Dev Signer This is for the dev Signer 'Add' pending						
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	Images exempt from deployment rules Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.						
	Image paths [0]						
	SAVE POLICY CANCEL						

	be ap	be applied unless the image is exempted as specified in the section below.						
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ary authorization	0	Allow all images						
	0	Disallow all images						
	۲	Allow only images that	have been approved by all of the following a	attestors				
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		ADD ATTESTORS						
		un mode 🕜						
		Audit log but do not blo	ock disallowed images					
		Filter clusters		^				
		Name	Rule description					
Binary Authorization	enabled	ClusterFoo	Default: Allow all images	:				
		🔮 CusterBar	Default: Allow all images	:				
		 ClusterFB 	Default: Allow all images	F	Edit			
No GKE cluster of th	at name	A SomeCluster			Delete			
		A Cluster01			Enable in GKE conso			
		Cluster02						
Binary Authorization	disabled	Cluster03	-	:				
		+ ADD CLUSTER SF	PECIFIC RULE					
		ges exempt from de les listed here are exen	ployment rules npt from deployment rule checks. Wildcards	s (*) are allowed in im	nage paths.			
	Im	age paths [0]		\sim				
	SAV	VE POLICY CANCE	EL					

ographic keys	Project default rule ⑦		
authorization	O Allow all images		
	 Disallow all images 		
	 Allow only images that have 	peen approved by all of the following a	attestors
	Approvers	Description	
	Trusted Builder	This is for the Trusted Builder	'Add' pending
	S Dev Signer	This is for the dev Signer	'Add' pending
	Jev Signer	This is for the dev signer	Add penaing
	ADD ATTESTORS	Edit cluster specific rule for C	lusterFB
	Duru un mode	Project default rules ⑦	
	Dry run mode ⑦ Audit log but do not block	 Allow all images 	
		O Disallow all images	
	Cluster-specific rules	O Allow only images that have b	een approved by all of the following attestors
Di	Deployment rules for specific c		
		Filter attestors	
		Attestors Descri	iption
	Filter clusters	Custom approver This is	s a new attestor
	Name	Trusted Builder Centra	alized secure build pipeline for all production jobs
	🖉 ClusterFoo	QA Signer Team	performs functionality tests and integration tests
	📀 CusterBar	Dev Signer This is	s for the dev Signer
	ClusterFB	Legal Legal	team reviews for policy violations
	▲ SomeCluster	Prod reviewer Review	ws for production readiness
	🔥 Cluster01	Sec scanner Secur	ity scanner for known vulnerabilities
	Cluster02		
	Cluster03	+ CREATE NEW ATTESTOR	
	+ ADD CLUSTER SPEC	Dry run mode 🕜	
	+ ADD CLUSTER SPEC	Audit log but do not block dis	allowed images
			CANCEL ADD

Image paths [0]		\sim
SAVE POLICY	CANCEL	

	Identity-aware proxy	be ap	oplied unless the image is ex	empte	d as specified in the se	ection belo	ow.		
	Cryptographic keys	Proje	ect default rule 💿						
1.00	Binary authorization	0	Allow all images						
_		0	Disallow all images						
			Allow only images that have I	been a	proved by all of the fo	llowing at	Itestors		
			Approvers	De	scription				
			Trusted Builder	Thi	s is for the Trusted Bui	lder	'Add' pending	Î	
			Ø Dev Signer	Thi	s is for the dev Signer		'Add' pending	I	
			ADD ATTESTORS	Edi	t cluster specific ru	le for Clu	usterFB		
		Drv r	un mode 💿	Pro	ject default rules				
		,	Audit log but do not block	0	Allow all images				
				0	Disallow all images				
		Clust	ter-specific rules	0	Allow only images the	at have be	een approved by a	ll of the foll	owing attestors
		Deple	oyment rules for specific c						
				5	Filter attestors				
					Attestors	Descrip	ption		
			Filter clusters		custom approver	This is	a new attestor		
			Name		Trusted Builder	Centra	lized secure build	pipeline fo	r all production jobs
			ClusterFoo		QA Signer	Team p	performs function	ality tests a	and integration tests
			🔮 CusterBar		Dev Signer	This is	for the dev Signe	r.	
			ClusterFB		Legal	Legal t	eam reviews for p	olicy violat	ions
			A SomeCluster		Prod reviewer	Review	vs for production r	eadiness	
			🛕 Cluster01		Sec scanner	Securit	ty scanner for kno	wn vulnera	bilities

+ CREATE NEW ATTESTOR

ADD CLUSTER SPEC Dry run mode ⑦

Audit log but do not block disallowed images

CANCEL ADD

Images exempt from deplo

Cluster02

Cluster03

Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.

Image paths [0]

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- Identity-aware proxy
- Cryptographic keys
- Binary authorization

Project default rule ⑦

- O Allow all images
- Disallow all images
- Allow only images that have been approved by all of the following attestors

	Approvers	Description		
0	Trusted Builder	This is for the Trusted Builder	'Add' pending	î
0	Dev Signer	This is for the dev Signer	'Add' pending	Î

ADD ATTESTORS

Dry run mode 🕜

Audit log but do not block disallowed images

Cluster-specific rules

Deployment rules for specific clusters. Project default rules won't apply to a cluster if a cluster-specific rule is defined.

- Filter clusters		^
Name	Rule description	
✓ ClusterFoo	Default: Allow all images	:
🧭 CusterBar	Default: Allow all images	:
ClusterFB	Attestors required: Dev signer, Prod reviewer	Edit
A SomeCluster	-	Delete
A Cluster01		Enable in GKE console
Cluster02	-	:
Cluster03		:
ADD CLUSTER SPE	CIFIC RULE	

Images exempt from deployment rules

Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.

Image paths [0]	\sim



graphic keys Proje	ect default rule 💿				
y authorization	Allow all images				
0	Disallow all images				
۲	Allow only images the	at have been approved by all of the following att	estors		
	Approvers	Description			
	Trusted Build	ler This is for the Trusted Builder	'Add' pending	i i	
	Oev Signer	This is for the dev Signer	'Add' pending	ii ii	
	ADD ATTESTORS				
Dry	run mode 💿				
	Audit log but do not b	block disal Remove deployment rul	a avarrida for C	Nuetor CP	
		Remove deployment run	e overnue for C	JUSIEIFD	
Clus	ter-specific rules	······			
	t <mark>er-specific rules</mark> loyment rules for spec	cific cluste Removing this override will r	emove the require	ment of having approv	
	oyment rules for spec		emove the require	ement of having approv e default deployment ru	ule which
	Filter clusters	Removing this override will r authorize on this cluster and will always allow all images.	emove the require	ment of having approv	ule which
	oyment rules for spec	Removing this override will r authorize on this cluster and will always allow all images.	emove the require	ement of having approv e default deployment ru	ule which
	Filter clusters Name ClusterFoo	Removing this override will r authorize on this cluster and will always allow all images.	emove the require	ement of having approv e default deployment ru	ule which
	 Filter clusters Name ClusterFoo CusterBar 	Removing this override will r authorize on this cluster and will always allow all images. Rule Default: Allow all images Default: Allow all images	emove the require revert back to the : :	ement of having approv e default deployment ru	ule which
	 Filter clusters Name ClusterFoo ClusterFB 	Removing this override will r authorize on this cluster and will always allow all images.	emove the require revert back to the : :	ement of having approv e default deployment ru	ule which
	 Filter clusters Name ClusterFoo CusterBar ClusterFB SomeCluster 	Removing this override will r authorize on this cluster and will always allow all images. Rule Default: Allow all images Default: Allow all images	emove the require revert back to the : :	ement of having approv e default deployment ru	ule which
	 Filter clusters Name ClusterFoo CusterBar ClusterFB SomeCluster SomeCluster Cluster01 	Removing this override will r authorize on this cluster and will always allow all images. Rule Default: Allow all images Default: Allow all images	emove the require revert back to the wer i i i i i i i i i i i i i i i i i i i	ement of having approv e default deployment ru	ule which
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Image paths [0]

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- Identity-aware proxy
- Cryptographic keys
- Binary authorization

Project default rule ⑦

- O Allow all images
- O Disallow all images
- Allow only images that have been approved by all of the following attestors

	Approvers	Description	
0	Trusted Builder	This is for the Trusted Builder	'Add' pending 📑
0	Dev Signer	This is for the dev Signer	'Add' pending 📑

ADD ATTESTORS

Dry run mode 🕜

Audit log but do not block disallowed images

Cluster-specific rules

Deployment rules for specific clusters. Project default rules won't apply to a cluster if a cluster-specific rule is defined.

Filter clusters		
Name	Rule description	
ClusterFoo	Default: Allow all images	:
CusterBar	Default: Allow all images	:
ClusterFB	Default: Allow all images	:
SomeCluster	-	:
Cluster01		:
Cluster02	a.	:
Cluster03	-	:

Images exempt from deployment rules

Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.

Image paths [0]	~



- Identity-aware proxy
- Cryptographic keys
- Binary authorization

Project default rule ⊘

- O Allow all images
- Disallow all images
- Allow only images that have been approved by all of the following attestors

	Approvers	Description	
0	Trusted Builder	This is for the Trusted Builder	'Add' pending 📑
0	Dev Signer	This is for the dev Signer	'Add' pending 📑

ADD ATTESTORS

Dry run mode 🔿

Audit log but do not block disallowed images

Cluster-specific rules

Deployment rules for specific clusters. Project default rules won't apply to a cluster if a cluster-specific rule is defined.

Active clusters [3], Cluster rules [1]	'Add' pending	\sim
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Images exempt from deployment rules

Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.

	^
Image path	
gcr.io/google-appengine/nodejs*	/ 1
docker.io/nginx*	/ 1
ADD IMAGE PATH	

- Identity-aware proxy
- Cryptographic keys
- Binary authorization

Project default rule ⑦

- O Allow all images
- Disallow all images
- Allow only images that have been approved by all of the following attestors

	Approvers	Description		
0	Trusted Builder	This is for the Trusted Builder	'Add' pending	î
0	Dev Signer	This is for the dev Signer	'Add' pending	Î

ADD ATTESTORS

Dry run mode 🔿

Audit log but do not block disallowed images

Cluster-specific rules

Deployment rules for specific clusters. Project default rules won't apply to a cluster if a cluster-specific rule is defined.

Active clusters [3], Cluster rules [1] 'Add' pending

Images exempt from deployment rules

Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.

cr.io/google-appengine/nodejs*	/ 1
locker.io/nginx*	/ 1
cr.io/testlabs/payment@sha256:aba48d60ba4410ec921f9d2e816	/ 1

- Identity-aware proxy
- Cryptographic keys
- Binary authorization

Project default rule ⑦

- O Allow all images
- Disallow all images
- Allow only images that have been approved by all of the following attestors

	Approvers	Description	
0	Trusted Builder	This is for the Trusted Builder	'Add' pending 📑
0	Dev Signer	This is for the dev Signer	'Add' pending 📑

ADD ATTESTORS

Dry run mode 🔿

Audit log but do not block disallowed images

Cluster-specific rules

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Active clusters [3], Cluster rules [1] 'Add' pending

Images exempt from deployment rules

Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.

			^
Image path			
gcr.io/google-appengine/nodejs*		/ 1	
docker.io/nginx*		/ 1	
gcr.io/testlabs/payment@sha256:aba48d60ba	'Add' pending	/ 1	
ADD IMAGE PATH			

tographic keys ry authorization		
v authorization	Project default rule 🕐	
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	O Disallow all images	
	Allow only images that have been approved by all of the following attestors	
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	ADD ATTESTORS	
	Dry run mode 💿	
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	Cluster-specific rules Deployment rules for specific cluster rules Active clusters [3]. Cluster rule In order to save changes made for this policy, hit the "save policy"	
	Active clusters [3], Cluster rul In order to save changes made for this policy, hit the "save policy" bottom of the policy page.	
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	Active clusters [3], Cluster rul In order to save changes made for this policy, hit the "save policy" bottom of the policy page.	" button found on the
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	Active clusters [3], Cluster rule In order to save changes made for this policy, hit the "save policy" bottom of the policy page. Images exempt from deploy Images listed here are exempt from deployment rule checks. Wildcards (*) are allowed in image paths.	" button found on the
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	Security	Binary	Authoriza	tion + CREATE ATTESTOR						*2 F	ERMISS	ONS
	Security Command Center Identity-aware proxy	POLI		ATTESTORS	Learn more							
	Cryptographic keys Binary authorization		Filter attestor					×	С	ш		
			Name	Description		Public Keys	Last Updated					

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	Security	Binary Authorization	+ CREATE ATTESTOR			* PERMISSIONS
	Security Command Center	POLICY ATTESTORS				
ŝ	ldentity-aware proxy Cryptographic keys	Attestors have the authority to ma	ake statements about an image. Learn more			
	Binary authorization	Filter attestors			× C	с ш
		Name	Description	Public Keys	Last Updated	
		🔲 🥝 Trusted Builder	This is for the Trusted Builder	1	April 1, 2018 - 8:00 AM	:
		🗖 🥑 Dev Signer	This is for the Dev Signer	1	April 1, 2018 - 8:00 AM	:

- Google Cloud Platform	FooBarProject 👻 Q	2 🖡 🥝 💭 i 🦉
Security	← Create attestor	
Security Command Center	Attestors have the authority to make statements about an image. Learn more	
Identity-aware proxy Cryptographic keys	Attestor name	
Binary authorization	Make sure that your name is easy to identify.	
	Create default analysis note	
	Container analysis note name ③	
	Description (Optional)	
	The description is shown during rule setup to provide additional context for attestors. PGP public keys ③ Learn more about key generation and how to set one up. Learn more 2	
	Add a PGP public key	
	Name (optional)	
	PASTE KEY or UPLOAD KEY	
	DONE CANCEL	
	ADD KEY	
	CREATE CANCEL	

Google Cloud Platform	FooBarProject - Q	≥ ¢ 0 (D :
Security	← Create attestor	
Security Command Center	Attestors have the authority to make statements about an image. Learn more	
Identity-aware proxy	Attestor name	
Cryptographic keys	QA	
Binary authorization	Make sure that your name is easy to identify.	
Sinary admonzation	✓ Create default analysis note ⊚	
	A corresponding note needs to be created in Container Analysis directly prior to creating an attestor in Binary Authorization.	
	Container analysis note name ③	
	Description (Optional)	
	This is the QA team	
	The description is shown during rule setup to provide additional context for attestors.	
	PGP public keys ③ Learn more about key generation and how to set one up. Learn more	
	Add a PGP public key	
	Name (optional) Key version 1.0.0	
	PASTE KEY or UPLOAD KEY	
	BEGIN PGP PUBLIC KEY BLOCK Version: BCPG C# v1.6.1.0	
	$\label{eq:label} Ajwlker 83 lkjslkjf; lakjsldkfjjlkjklakjsdlkfjlkallslslslslkdfjsf 13120893 a$	
	DONE CANCEL	
	ADD KEY	
	CREATE CANCEL	

≡ Google Cloud Platform FooBarProject -5. **(** 9 **(**) : **Binary Authorization** + CREATE ATTESTOR Security * PERMISSIONS Security Command Center POLICY ATTESTORS Identity-aware proxy

Binary authorization

Cryptographic keys

Attestors have the	authority to make statements about an image.	Learn more		
Filter attest	rs		×	C III
Name	Description	Public Keys	Last Updated	
🗖 🥝 QA	This is the QA team	2	April 1, 2018 - 8:00 AM	:
🗖 🥑 Truste	d Builder This is for the Truste	d Builder 1	April 1, 2018 - 8:00 AM	:
🗖 🥑 Dev Si	gner This is for the Dev Si	gner 1	April 1, 2018 - 8:00 AM	:

Google Cloud Platform	FooBarProject - Q	2 A 2 D i
Security	← "QA" attestor 💉 EDIT 🔋 DELETE 🔀 DISABLE	
Security Command Center Identity-aware proxy	Attestor name ⑦ QA	
Cryptographic keys Binary authorization	Container analysis note name ⑦ projects/some_project/notes/some_note Description (optional) ⑦ This is the QA team	
	Public keys 💿	
	Name: key version 1.0.0 ID: 5252E2D910 Name: legal change ID: 728282D910	

	FooBarProject • Q	5 🏚 🤉 🗩 E 🧕
Security	← "QA" attestor 🧪 EDIT 🔋 DELETE 🔀 DISABLE	
 Security Security Command Center Identity-aware proxy Cryptographic keys Binary authorization 	CAT attestor A testor	

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1	Security	← "QA" attestor 💉 EDIT 🔋 DELETE 🔀 DISABLE
	Security Command Center Identity-aware proxy Cryptographic keys Binary authorization	Attestor name QA Container analysis note name () project/s/some_noides/some_noite Description (optional) This is the QA team Public keys () ID: 5252E2D910 ID: 5252E2D910

5. **0** 9 1 **Binary Authorization** Security + CREATE ATTESTOR * PERMISSIONS

Security Command Center POLICY ATTESTORS Identity-aware proxy Attestors have the authority to make statements about an image. Learn more Cryptographic keys Binary authorization C III Filter attestors × Name Description Public Keys Last Updated 🗖 🥑 QA ÷ This is the QA team 2 April 1, 2018 - 8:00 AM 🔲 🥑 Trusted Builder ÷ This is for the Trusted Builder 1 April 1, 2018 - 8:00 AM 🔲 🥑 Dev Signer 1 This is for the Dev Signer April 1, 2018 - 8:00 AM Edit

Disable Delete

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	Security	Binary Authorizatio	ON 🕂 CREATE ATTESTOR			÷ <u>e</u>	PERMI	SSION	١S
	Security Command Center	POLICY AT	ITESTORS						
	Identity-aware proxy								
	Cryptographic keys	Attestors have the auth	ority to make statements about an image. Learn more						
	Binary authorization	Filter attestors		×	C	Ш			
		Name Name	Description Public Key	s Last Updated					
		🔲 🥝 QA	This is the QA team 2	April 1, 2018 - 8:00 AM		:			
		🔲 🥝 Trusted Bui	ilder This is for the Trusted Builder 1	April 1, 2018 - 8:00 AM		:			
		🔲 🥑 Dev Signer	Disable "Dev Signer" attestor	118 - 8:00 AM		:			
	Disabling this attestor will affect your policy if it's part of your deployment rule								
			Are you sure you want to disable?	_					
				CLOSE YES, DISABLE					

E Google Cloud Platform FooBarProject • Q D I Q Security Binary Authorization CREATE ATTESTOR ** PERMISSIONS Security Command Center POLICY ATTESTORS · Identity-aware proxy Attestors have the authority to make statements about an image. Learn more · Binary authorization Filter attestors × C

			•	
Name	Description	Public Keys	Last Updated	
QA	This is the QA team	2	April 1, 2018 - 8:00 AM	:
Trusted Builder	This is for the Trusted Builder	1	April 1, 2018 - 8:00 AM	1
Dev Signer	This is for the Dev Signer	1	April 1, 2018 - 8:00 AM	1

5. **(** 9 **(**) : **Binary Authorization** + CREATE ATTESTOR Security * PERMISSIONS Security Command Center POLICY ATTESTORS Identity-aware proxy

Cryptographic keys Binary authorization

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