ORACLE

Oracle CPQ with Akamai Integration Guide

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REVISION HISTORY

This document will continue to evolve as existing sections change and new information is added. All updates appear in the following table:

DATE	WHAT'S CHANGED	NOTES
NOV 2020	Embargoed Country Blocking	Updated list of embargoed countries
JUN 2020		Initial Document Creation

INTRODUCTION

Akamai is a content delivery network that primarily acts as a proxy between the browser (other clients) and the Oracle CPQ Site (origin server). When a browser makes a request to the Oracle CPQ site, the request is routed through Akamai servers (edge servers) that sit between the origin server and the end user. This routing helps cache and serve the content based on the property setup in Akamai.

This document provides an overview of how to configure Oracle CPQ for use with Akamai. This integration was introduced by Oracle CPQ release 19D. It is intended solely to help you assess the business benefits of upgrading to 19D and to plan your IT projects

Considerations

Implementing this functionality requires the skills of an experienced Akamai administrator. Oracle does not warranty any of the included code snippets; Oracle cannot certify these against future versions of Akamai or Oracle CPQ.

As with all changes to your CPQ application and associated integrations, administrators are strongly encouraged to work in a sandbox/test site prior to making any changes to a production environment. Any changes should be thoroughly documented and commented to enable future changes or troubleshooting.

Akamai Reference Links

Akamai Control Center: https://control.akamai.com

Akamai Documentation: https://learn.akamai.com

Prerequisites

The following are the prerequisites to perform the Oracle CPQ and Akamai integration:

- Current customer contract with Oracle for CPQ.
- Oracle CPQ Site must have a vanity domain. This should be a domain that matches one owned by the customer. So, instead of megacorp.bigmachines.com, it can be cpq.megacorp.com. This will route all customer domain requests to Akamai edge.
- SSL certificate for your company's online presence. Identify the point of contact in your organization who manages the SSL certificate for your company's online presence. This point-of-contact will need to provide information from the SSL certificate during this process.
- Current customer contract with Akamai including:
 - Access to Akamai Control Center associated with Akamai account
 - Access to provision certificates
 - Access to create Akamai property

SETUP OVERVIEW

The setup activities are organized into the following areas within this document:

- 1. Certificate Provisioning
- 2. CPQ Application Setup
- 3. Akamai Property Template Setup
- 4. DNS Change

The following diagram shows the typical flow for integrating Akamai for a new customer.



The first step is to create a new SSL Certificate. This usually takes time as the Certificate Signing Request (CSR) needs to be generated and approved by the Certificate Authority (CA). Once the certificates are provisioned, then CPQ Application Setup needs to be performed. Once the CPQ site is ready then Akamai property needs to be configured, tested, and deployed to the production network. The final step to taking this live is to make the DNS Changes.

Note: Akamai may alter its administration interfaces from those represented in this document. However, even with an interface change, the goals documented in these steps remain the same.

CERTIFICATE PROVISIONING

In the Akamai Control Center menu, navigate to Certificates.



1. Click Create New Certificate. The Step 1: Select Validation Type page opens.

CPS						6
Q Filter by Common Name, SANs, or Slot					Create	New Certificate
 In Progress (0) Active (1) 	Drafts	0)			_	C Key
Common name (SAN count)	Slot	Certificate Type	Staging Network	Production Network	Always test on Staging before deployment	Actions

2. Select Organization Validation (OV) under Akamai Managed Certificate.

created.			
Akamai Managed Certificate	OP	Self-Managed Certificate	Contract: G-2090EDD
 Domain Validation (DV) 	- 0R -	O Third-Party	View Contract Details
 Organization Validation (OV) 			What are the different validation types?
Extended Validation (EV)			Akamai Managed Certificates
/			Domain Validation (DV): This is a lower level of validation. The CA validates that you have
			control of the domain. A DV certificate expire
			issued by 1
			✓ choice. Certifica.
			Symantec or Let's Encrypt. If you want to use
			a different CA, you must create a third-party certificate.
			Learn more

3. Click Next. The Step 2: Select Certificate Settings page opens.

4. Select Subject Alternative Names (SAN) for Certificate Type.

2 Select Certificate Settings Select the type of certificate and the certificate authority that will be used for this certificate	e. You cannot change this after the certificate has been created.
Certificate Type Subject Alternative Names (SAN) Single Wildcard Wildcard SAN	What are the different types of certificate? SAN certificate: Uses Subject Alternative Names and allows you to secure up to 100 property hostnames with one certificate. Single certificate: Associates a property hostname with a security hostname w
	Cancel Next

- 5. Click **Next**. The Step 3: Enter Certificate Information page opens.
- 6. Using the SSL certificate for your organization's online presence as a reference, enter the following:
 - Common Name (CN)
 - SANs (optional)
 - Company Information

3 Enter Certificate Informati	ion	thorach -
The nosinames and organiz	cation information to be included in the certificate issued by the Certificate Au	unorny.
Common Name (CN)		What do I enter for common name (CN)?
Skip CN FQDN Validation	0	Enter the common name (CN) you want to use for the certificate in the Common Name field. The company entered in the Company
\frown		rights to use a custom data in b.
		LON). In these cases, you can be this option. The CN field is always required.
SANs (optional)	Select Items	What is a SAN?
	Clear All	A SAN is a Subject Alternative Name. This field allows you to enter alternate or additional hostnames that the using this contribution. We
		validation is e
Company Information	Organization or company name	What do I enter for company name?
	Unit or department (optional)	Enter the name of the company or organization requesting this certificate. Enter the name as it appears in all legal documents
	Address line 1	and as it appears in the legal entity filing. The organization or company you specify here
	Address line 2 (Optional)	must own or have legal rights to use the hostnames in the Common Name (CN) and SAN fields.
	Country	Learn more
	City or municipality	What do I enter for main business phone
	State, province, or region	number? The main phone number of the company. For
	Main business phone number. No mobile numbers or direct lines.	OV and EV certificates, the Certificate Authority will use this phone number to contact the Administrator. This phone number

- 7. Verify that the information matches the reference SSL certificate **exactly** then click **Next**. The Step 4: Enter Company Information page opens.
- 8. Accept the default for Company Information, if applicable, and click **Next**. The Step 5: Enter Contact Information page opens.

Enter Company Information	
Legal name and contact information for the company that is requesting this certificate. For OV and EV certificates, this information will appear in the certificate issued by the Certificate Authority.	
Company Information Same as certificate company information	
Cancel	Next

- 9. Enter the following information:
 - Administrator Contact Information
 - Akamai Technical Contact Information

Note: Contact Akamai for the technical contact associated with your account.

violatestos Postast Information	
First Name Last Name Email Address Main Business Phone	Who should be the Administrator Contact? This is the person the CA contacts to verify the certificate request. This person should know all the relevant details about the certificate, including all of the SANs and the name of the technical contact. Choose someone easy for the CA to contact through a company directory or operator. Learn more
Company 🛃 Same as certificate company information	What do I enter for the main business phone number? The main phone number of the company. For OV and EV certificates, the Certificate Authority will use this phone number to contact the Administrator. This phone number should match what is published by third-party directories.
mai Technical Contact Information First Name Last Name Empli Address	Who is my Akamai technical contact? The Akamai Technical contact is the person within Akamai that the CA calls if there are any technical issues with the certificate.
Email Address Phone Number	

10. Click Next. The Step 6: Select Network Settings page opens.

11. Accept the defaults for the following:

- Deployment Network
- Geographical Deployment
- SNI-Only



12. Click Review.

13. Review the data and then click **Submit**. Once submitted, you receive a confirmation message.



Status updates for the certificate throughout the process will be sent via email.

From sf-no-reply <sf-no-reply@akamal.com> Subject Certificate Notification for cpq-nonprod.oracle.com: New order started</sf-no-reply@akamal.com>	Reply	🏘 Reply All 🗸	→ Forward	Archive	👌 Junk	Delete More ~ 6/24/19, 3:45 PM
To oracie-team@ekamai.com <oracie-team@ekamai.com> 0, gowtham.sricharan@oracie.com <gowtham.sricharan@oracie.com> 1, gowtham.sricharan@oracie.com> 2, maprabhu@ekamai.com <map amakda@ekamai.com <amakda@ekamai.com> 1, gournima@ekamai.com <spurnima@ekamai.com> 1, maprabhu@ekamai.com <map opscasemgmt@ekamai.com <cpscasemgmt@ekamai.com> 1</cpscasemgmt@ekamai.com></map </spurnima@ekamai.com></amakda@ekamai.com></map </gowtham.sricharan@oracie.com></oracie-team@ekamai.com>	orter@akam rabhu@aka	ai.com ≺bporter®i nai.com> ✿,	akamai.com> 1	k.		
Hello,						
The status of your certificate, cpq-nonprod.oracle.com, has changed. A new order for the certificate h	as begun.					
Symantec may contact you via email or phone call to verify the contents of the certificate request. You certificate to be issued.	u must re	spond to thes	e validatio	on requests	from Sy	mantec for the
You can check the latest status of the certificate by logging into the Luna Control Center and from the	e Configu	re menu selec	ting Certi	icate Prov	isioning	System (CPS).

ORACLE CPQ APPLICATION SETUP

In <u>My Oracle Support</u>, log a Technical Service Request (SR) with the instructions: "*Please enable Akamai for CPQ environment <your CPQ environment*."

The SR is routed to the CPQ Operations team, who will deploy a test html file to the CPQ application for testing Akamai connectivity.

Akamai Property Template Setup

A property is a unique file with customizable rules that control how Akamai servers deliver CPQ content, and where caching behavior is configured.

1. Create a template from the properties home page by navigating to + **Create** \rightarrow Property. The New Property page opens.



2. Enter cpq_akamai_new_site.template for the Property Name.

New Prop	erty operty to control how Akamai edge server	Back to Group ?
Property Type	Property Manager 1 Product In Premier	Included Modules In Ion Premier on Contract G-2090EDD Enhanced Akamai Protocol
Property Name	Contract • G-2090EDD cpq_akamai_new_site.template Cmute Propert	Brotil Support Enhanced Secure Delivery - Customer Cert Custom Behaviors HTTP/2 Front End Optimization mPulse cmst 72

3. In Property Variables, click **Add Variable**.

4. Add COUNTRY_CODE and REGION_CODE variables under Variable Name within the Property Variables section.

			Add	Variab
/ariable Name	Initial Value	Description	Security Settings	
PMUSER_ COUNTRY_CODE			Visible	~
PMUSER_ REGION_CODE			Visible	~

Akamai Rule Creation

Note: The following steps walk you through creating rules that are specific to Oracle CPQ environments and continue from <u>Akamai Property Template Setup</u>.

- 5. In Property Configuration Settings section, delete any default rules under Default Rule <u>except</u> for Content **Compression**, **Static Content**, and **Dynamic Content**, as follows:
 - a. Click on the name of the rule to select it.
 - b. Click the rule's gear icon.
 - c. Click Delete.



- 6. Add Redirect to HTTPS and Image Manager by selecting them from the available rules as follows:
 - a. Click **Add Rule**.



b. (Optional) In the Add new Rule window, type the rule name in Search available rules to filter the list.

- c. Click the rule to select it from the list of available rules.
- d. Click Insert Rule.

Add new Rule			×
Available Rules (by Category) Default Templates	~	Redirect to HTTPS Redirects from HTTP to HTTPS	
Search available rules		Redirects requests made over HTTP to the same URL on HTTPS, using a 301 Moved Permanently redirect.	
Redirect Vanity Hostnames	î		
Redirect for Browser Language			
Redirect to HTTPS	-		
Redirect to an alternate hostname			
Remove Debug Info			
Serve a sorry page from NetStorage			
Serve a sony page from an alternate hostname			
Simple Cookie Token Based Protection			
Simulate Origin Read Error			
WebD and IDEC VD December on Cashing	~		
		Cancel Insert Ru	de

- Add Old IE browsers, Old Mozilla browsers, Disable Chunk for Migration, Pre-WAF, Embargoed Country Blocking, Splash Assets, Non-Splash, Add UA to Cache Key, and Remove Vary Header by creating them from blank rule templates as follows:
 - a. Click Add Rule.
 - b. Select **Blank Rule Template** in the Add new Rule window.
 - c. For each rule, type its name in the field under Blank Rule Template.
 - d. Click Insert Rule.

Add new Rule			×
Available Rules (by Category)		Blank Rule Template	
Default Templates	~	Blank Rule Template	
Search available rules	_	Set criteria and behaviors from scratch, without a template.	
· · · · · · · · · · · · · · · · · · ·		Disable Chunk for Migration	٦
Adaptive Image Compression			_
Advanced Cookie Token Based Protection			
Allow Specific Referrer Only		1	
Artificially Break Origin Forward Connection			
Audience Segmentation Cloudlet with SiteSpect®			
BREACH Defense (SSL)			
Blank Rule Template			
CORS (Cross Origin Resource Sharing) Headers			
Cache based on browser locale			
		Cancel Insert Rule	9

8. Re-order rules to match the hierarchy below:

Default Rule	Default Rule
└─Content Compression	 Content Compression
	Old IE browsers
Uld Mozilla Browsers Redirect to HTTPS	Old Mozilla browsers
	Redirect to HTTPS
Disable Chunk for Migration	Dynamic Content
-Static Content -Pre-WAF	Disable Chunk for Migration
└─Embargoed Country Blocking	Static Content
└─Splash Assets └─Non-Splash	- Pre-WAF
LImage Manger	- Embargoed Country Blocking
⊢Add UA to Cache Key ⊢Remove Varv Header	Splash Assets
	Non-Splash
	Image Manager
	- Add UA to Cache Key
	Remove Vary Header

• To change a rule's position, click and drag the rule a new position and release the rule when its predecessor is highlighted.



- To place a rule as a child of another rule, drag it to the right before releasing.
 - The child rule name will be indented
 - Upon release, the parent will display an 'expanded' icon ()



• To remove a child from its parent, click the child and drag left.

Akamai Rule Behavior Settings

- 9. For each rule, you need to define Criteria and Behaviors. The following are general editing instructions:
- To specify a Criteria, click **Add Match**.
- To specify a Behavior, click **Add Behavior**.

Example Rule		View Ru	Ile JSON
Add a comment			
Criteria Match All	*		.d 3d Match
	Click on the "Add Match" be	utton to specify a criteria	
Behaviors		Add	Behavior
	Click on the "Add Behavior" b	utton to specify a behavior	

• For Behaviors, filter the list by typing in the search field (optional), select a Behavior, and then click Insert Behavior.

Add a Behavior for this Rule		×
Available Behaviors (by Category) All allow	Allow DELETE Allow use of the DELETE HTTP request method. By default, GET or HEAD are the only methods honored, and others are denied with a 403. With this behavior enabled, DELETE requests pass to the origin, and do not ca	l che.
Allow All Methods on Parent ^	Allow DELETE	0
	Behavior Allow	
Allow OPTIONS	Allow Body Deny	
Allow PATCH		
Allow POST		
Allow PUT		
×.	Cancel Inset	Behavior

• To remove a Criteria or Behavior, hover over its block and click (X).

If		
Hostname	*	Øx
is one of	~	
abc 🗶		

- To add a Criteria value, click in its value field.
 - If a list of values is available, begin typing to filter the list, then click a value to select it. An informational balloon may be shown to guide you to expected values.

File Ext	of		-	A list exan	of fil	e ext jpg	ensi html	ons, v I png	vith .	no dots (🕠). Fo	r			¢,	.0:
	-		_			_										
aif 🗙	aiff 🗙	au 🗙	avi 🗙	bin	×	bmp	×	cab	×	carb 🗙	cct	×	cdf 🗙	class X	CSS X	
doc 🗙	dcr 🗙	dtd 🗙	exe	x	v x	go	f X	gff	×	gif 🗙	grv X	t h	dmi 🗙	hqx 🗙	ico 🗙	
ini 🗙	jpeg X	jpg 🗙	js X	mov	×	mp3	×	nc	×	pct X	pdf X	P	ng 🗙	ppc X	pws X	
swa 🗙	swf >	ttt X	vbs	×	w32	×	way	×	wt	x qm	wmi x	w	mic ×	wmis X	wmisc	×
xsd X	zip 🗙	pict X	tif 🗙	tiff	×	mid	×	midi	×	ttf 🗙	eot 🗙	w	off X	woff2 X	otf 🗙	
svg X	svgz 🕽	(webp	x)	or 🗙	jar	×	jp2	× d	oc	-						
doc (ne	ew item)															

- If no list of values is available, type the value and click on <value> (new item) in the list to add it.

Hostname	A list of hostnames, optionally using wildcards. For example, example.com matches	@ >
is one of	www.example.com and static.example.com.	
docx		

• To delete a value, click on the (X) to delete it.

lf	
Hostname	*
is one of	*
docx X	

• To re-order Behaviors, click and drag the behavior's block to move it.

DEFAULT RULE

Default Rule is applied to all requests, depending upon the Akamai contract.

Set indicated values for the following behaviors, adding any as necessary. Other default values for behaviors should be left as-is.

Origin Server

- Origin Server Hostname: Enter the CPQ Application server i.e. myCompany.bigmachines.com
- Send True Client IP Header: Yes
- Verification Settings: Choose Your Own
- Match CN/SAN To: *.bigmachines.com (Delete any other values)

Origin Server		
Origin Type	Your Origin	~
Origin Server Hostname (variable support)		
Forward Host Header	Origin Hostname	~
Cache Key Hostname	Incoming Host Header	~
Supports Gzip Compression	Yes	
Send True Client IP Header	Yes	
True Client IP Header	True-Client-IP	
Allow Clients To Set True Client IP Header	No	
Origin SSL Certificate Verific	ation	
Verification Settings	Choose Your Own	~
Use SNI TLS Extension	Yes	
Match CN/SAN To	*.bigmachines.com ×	
Trust	Akamai-managed Certificate Authorities Sets	~
Akamai-managed Certificate Authority Sets	Akamai Certificate Store Enabled View CA Set	
	Third Party Certificate Store Disabled View CA Set	
Ports		
HTTP Port	80	
HTTPS Port	443	

Content Provider Code

Content provider codes identify CPQ Site requests for logging, clearing cache etc.

- 1. Click Create new...
- 2. In the Create a new CP Code window, accept the default name value proposed.
- 3. Click Create.

Create a new CP Code	
You have 89 remaining cp codes	before you exhaust your limit of 100.
Accept the default name for the new CP (% or non-printable characters.	code, or enter a custom name. CP Code names can be up to 128 alphanumeric characters, but cannot include _ , #
Name	Example Property
If you utilize the log delivery service to rec log capture you must complete this step	eive copies of your edge server logs, add log delivery for this CP Code by going to Configure > Log Delivery. To ensur before activating the new CP Code on production.
	Cancel Create

Caching

• Caching Option: No Store (default). This will be overridden later in our subsequent configuration.

Caching		
Caching Option	No Store	~

SureRoute

SureRoute provides the path to the test object that is used by Akamai edge servers to find the optimized path.

• SureRoute Test Object: Enter /akamai/sureroute-test-object.html

arercoute		
Enable	On	
Optimization Type	Performance	`
SureRoute Test Object	/akamai/sureroute-test-object.html	
	Download SureRoute Test Object Here	
Forward HOST Header	Same as incoming HOST header	
Cache Life for Race	30 × minutes ×	
Results Force SSL Protocol for Races	Off	

Tiered Distribution and Prefetch Objects

• If present, delete Tiered Distribution and Prefetch Objects behaviors.

Enhanced Akamai Protocol

• Enhanced Akamai Protocol: Optional, availability depends on the contract. No user settings required.

Enhanced Akamai Protocol	
Enhanced Akamai Protocol Enabled	

Allow POST

• Allow without Content-Length: Allow

Allow POST			
Behavior	Allow		
Allow without Content- Length	Allow	-	

Allow DELETE

• Allow Body: Allow

Allow DELETE	
Behavior	Allow
Allow Body	Allow

Allow PUT

• No changes required

Allow PUT		
	Allow	

Log Request Details

- Log Host Header: On
- Log User-Agent Header: Off
- Include Custom Log Field: On
- Custom Log Field: Enter {{user.PMUSER_COUNTRY_CODE}}|{{user.PMUSER_REGION_CODE}}|{{builtin.AK_GHOST_IP}}

Log Request Details		
Log Host Header	On	
Log Referer Header	no	
Log User-Agent Header	no	
Log Accept-Language Header	on	
Cookie Mode	Don't log any cookies	~
Include Custom Log Field		
Custom Log Field (variable support)	{{user.PMUSER_COUNTRY_CODE}}}{{user.PMUSER_REGION_CODE}}}{{builtin.AK_	G

mPulse

• If present, delete mPulse behavior.

Set Variable

Depending on the contract, you may optionally create two instances for Set Variable.

- Variable: PMUSER_COUNTRY_CODE / PMUSER_REGION_CODE
- Create Value From: Extract
- Get Data From: Edgescape Data

Variable	PMUSER_COUNTRY_CODE	~
Create Value From	Extract	~
Get Data From	Edgescape Data	~
Edgescape Field	Country Code	~
Operation	None	~
et Variable		
et Variable Variable	PMUSER_REGION_CODE	
et Variable Variable Create Value From	PMUSER_REGION_CODE	
et Variable Variable Create Value From Get Data From	PMUSER_REGION_CODE Extract Edgescape Data	
et Variable Variable Create Value From Get Data From Edgescape Field	PMUSER_REGION_CODE Extract Edgescape Data Region Code	

• No user settings required.

HTTP	/2
0	You've added HTTP/2 support, but it will only work if requests go over HTTPS. Use a shared or custom cert.
HTTP/2	2 is Enabled

Chunked Transfer Encoding

• No changes required.

Chunked Transfer Enco	ding
Behavior	Allow

Adaptive Acceleration

Adaptive Acceleration settings are optional. Adaptive Acceleration can improve HTML page load performance by prepositioning content. When it receives an HTML page request, Adaptive Acceleration augments the response using unobtrusive techniques to provide content to the browser as needed. This reduces the load and render time for web pages based on information from navigation and resource timing data.

- Beacon Data Source: mPulse
- Automatic Server Push: Off
- Automatic Preconnect: Off
- Automatic Front Preload (mPulse only): Off
- Resource Optimizer: On

Adaptive Acceleration		
Beacon Data Source	mPulse	*
Automatic Server Push	Off	
Automatic Preconnect	Off	
Automatic Font Preload (mPulse only)	Off	
Resource Optimizer	On	

COMPRESSION RULE

Content Compression applies GZIP to content sent to the browser for compressible content-types.

Criteria

• Add text/css* to the default list by clicking in the value area and selecting it from the list.

	Content Type			Re	Response header value, for example						00x					
	is one of			te	ext/ht	1 .										
ſ	text/* 🗙	applica	tion/javascrip		applica	ition/x-java	ascript 🗙	a	oplication/x-javascript*	× applicatio	n/json 🗙					
	application	v/x-json	× applicat	ion/*+js	on x	applicat	tion/*+xml	×	application/text X							
application/vnd.microsoft.icon X			c app	plication	n/vnd-ms-	fontobject	×	application/x-font-ttf	×							
l	application/x-font-opentype X			applic	ation/x	-font-truet	ype 🗙	appl	ication/xmlfont/eot X	application/xr	ml 🗙					
	font/opent	ype 🗙	font/otf 🗙	font/e	tot X	image/s	vg+xml >	c i	mage/vnd.microsoft.ico	an 🗙 📥		- 1				
ĺ	(new item	1)														
1	text/css*	+		_	_	_										
1	text/xml*															
1	textisisis															

OLD IE BROWSERS RULE

Old IE Browsers disables last mile compression for old versions of Internet Explorer (IE) browsers.

Criteria

• If User Agent is one of *MSIE 5*Mac* or *MSIE 4*

User Agent	~
is one of	~
"MSIE 5"Mac" X "MS	SE 4" X

Last Mile Acceleration (Gzip Compression)

• Compress Response: Never

Last Mile Acceleration (Gzip	Compression)	
Compress Response	Never	 ~

OLD MOZILLA BROWSERS RULE

Old Mozilla Browsers disables last mile compression for old versions of Mozilla browsers.

Criteria

• If User Agent is one of *Mozilla/4*

-AND-

• If User Agent is not one of *(compatible;*

User Agent	× 4	
is one of	~	
'Mozila/4' 🗙		
AND		
AND		

Last Mile Acceleration (Gzip Compression)

• Compress Response: Never

Last Mile Acceleration (Gzi	Compression)	
Compress Response	Never	 ~

REDIRECT TO HTTPS

Redirect to HTTPS redirects HTTP traffic to HTTPS and requires no changes to default values.

lf		
Request Protocol	~	
НТТР	~	
Behaviors		Add Behavior
Redirect		
The Redirect behavior management of redirects, and allows n	ay be better served by the Edge Redirector Cloudlet, which manages large numb on-IT staff, like those in marketing, to set up redirects.	ers
Redirect Type	Default	*
Destination Protocol	HTTPS	*
Destination Hostname	Same as request	~
Destination Path	Same as request	*
Include Query String	Yes	
Redirect Status Code	301 Moved Permanently	

DYNAMIC CONTENT

Dynamic Content bypasses the caching for dynamic content (non-cacheable) and requires no changes to default values.

lf				
	Response Cacheability	~		
	is not	~	Cacheable	~
Beha	aviors			Add Behavior
Do	wnstream Cacheability			
	Caching Option	Pass	cacheability headers from orig	rigin
	contraction of the second s			

DISABLE CHUNK FOR MIGRATION

Disable Chunk for Migration disables the Accept-Encoding protocol for Migration Download URL's.

Criteria

- If Path matches one of /migration/receiver*
 - AND -
- Request Method is POST
 - AND –
- Request Header mReqType is one of catXmlDown

Path	*				
matches one of	~				
/migration/receiver* ×					
AND					
Request Method	~				
is	*	POST		~	
AND					
Request Header	~				
mReqType	is one of		~		

Modify Outgoing Request Header (2 Instances)

- Action: Remove
- Select Header Name: Other...
- Custom Header Name: Accept-Encoding / TE

Action	Remove	
Select Header Name	Other	
Custom Header Name	Accept-Encoding	
(variable support)		
(variable support)	Header	
(variable support)	Header	
(variable support) lodify Outgoing Request Action	Header	
(variable support) todify Outgoing Request Action Select Header Name	Header Remove Other	

STATIC CONTENT

Static Content sets the default caching for static file extensions.

Criteria

- Criteria requires no changes to default values.
- If present, remove Prefetch Objects and Prefetchable Object behaviors.

File Ex	tension		~								
is one	of		~								
aif 🗙	aiff X	au 🗙	avi 🗙	bin X	bmp 🗙	cab 🗙	carb 🗙	cct 🗙	cdf 🗙	class X	css X
doc 🗙	dcr 🗙	dtd 🗙	exe 3	flv X	gcf 🗙	gff 🗙	gif 🗙	grv 🗙	hdml 🗙	hqx 🗙	ico 🗙
ini 🗙	jpeg 🗙	jpg 🗙	js 🗙	mov 🗙	mp3 🗙	nc 🗙	pct X	pdf 🗙	png 🗙	ppc X	pws 🗙
swa 🗙	swf X	bd X	vbs	x w32	× wav	wb	x qm	wml 🗙	wmic 🗙	wmis 🗙	wmisc 🗙
xsd X	zip 🗙	pict X	tif 🗙	tiff 🗙	mid 🗙	midi 🗙	ttf 🗙	eot 🗙	woff X	woff2 X	otf 🗙

Downstream Cacheability

• Caching Option: Don't send cacheability headers; client browser defaults apply

Downstream Cacheability		
Caching Option	Don't send cacheability headers; client browser defaults apply	~

Caching

• Caching should require no changes to default values.

Caching		
Caching Option	Cache	~
Force Revalidation of Stale Objects	Serve stale if unable to validate	*
Max-age	1 days 💙	

Tiered Distribution

• Tiered Distribution should require no changes to default values.

Tiered Distribution		
Enable	On	
Tiered Distribution Map	Global (ch2)	*

PRE-WAF RULE

Pre-WAF is an optional group of rules forming a firewall-like web application to prevent access from specific countries. It contains no Criteria or Behaviors itself.

EMBARGOED COUNTRY BLOCKING

Criteria

Criteria : Match Any

- If User Location Data Country is one of Cuba (CU), North Korea (KP), Syrian Arab Republic (SY), Iran (IR), Venezuela (VE)
 - OR -
- Request Header X-Debug-Embargo is one of true

IV CU) 🗶 North F	V Korea (KP) X	is one of		~		
CU) 🗙 North P	Korea (KP) 🗙	Curing Area				
		Syrian Arac	Republic (SY)	x Iran (IR)	K Venezuela (Vi	E) X
st Header	~					
ug-Embargo	is one o	1	~			
	est Header ug-Embargo	est Header 🗸	est Header ug-Embargo is one of	est Header v ug-Embargo is one of v	est Header v ug-Embargo is one of v	est Header v ug-Embargo is one of v

Modify Outgoing Response Header

- Select Header Name: Other...
- Custom Header Name: X-Debug-Embargo
- Header Value: true

Modify Outgoing Response	e Header	
Action	Add	*
Select Header Name	Other	*
Custom Header Name (variable support)	X-Debug-Embargo	
Header Value (variable support)	true	

SPLASH ASSETS

Criteria

• If Path matches one of /ak-splash/*

Path	~
matches one of	~

Site Failover

- Action: Use alternate hostname on provider network
- Alternate Hostname on Provider Network: embargo.splash.oracle.com
- Request Path: Same

A To ensure the Site Failow Status Code or Origin Tin	er behavior works correctly, you should use it within a match such as Response neout.	
Enable	On III	
Action	Use alternate hostname on provider network	ŀ
Alternate Hostname on Provid (variable support)	embargo.splash.oracle.com	
Request Path	Same	

NON-SPLASH ASSETS

Criteria

• If Path does not match one of /ak-splash/*

lf		
	Path	~
	does not match one of	~
	/ak-splash/" 🗙	

Site Failover

- Action: Use alternate hostname on provider network
- Alternate Hostname on Provider Network: embargo.splash.oracle.com
- Request Path: Other
- Modified Path: /embargoed.html
- Include Query String: No

To ensure the Site Failow Status Code or Origin Tir	er behavior works correctly, you should use it within a match such as Response neout.	
Enable	On II	
Action	Use alternate hostname on provider network	ŀ
Alternate Hostname on Provid (variable support)	embargo.splash.oracle.com	
Request Path	Other	•
Modified Path	/embargoed.html	
(variable support) Include Query String	No	

IMAGE MANAGER

The Image Manager provides image optimizations when rendering in the browser and should require no changes to default values.

lf		
File Extension	*	
is one of	*	
jpg X gif X jpeg X	png 🗙 imviewer 🗙	
Caching		
Caching Option	Cache	~
Force Revalidation of Stale	Serve stale if unable to validate	~
Max-age	30 days 💙	
Image Manager		
Image Optimization Settings		
Enable	On	
Scale for Mobile	Off	
Use Best File Type	On III	
Region	United States	*
Traffic Settings		
Pristine Images CP Code	Create new	
	The Pristine Images CP Code option in Image Manager must not be empty.	
Derivative Images CP Code	Create new The Derivative Images CP Code option in Image Manager must not be empty.	
Delicu Set (ADI Keu)		
Policy Set (API Ney)	Standard	
Policy Set Name (API Key)	Example Property-10756619	
t one, containe (a rite))		

ADD UA TO CACHE KEY

Criteria

• Criteria: None

Advanced

• Advanced XML: Contact your Akamai representative to add the following XML.

```
<cache:key.force>
    <rule>(*,,X-Akamai-UA-Type X-Akamai-UA-Version,) URL</rule>
    <status>on</status>
    <allowed-headers>X-Akamai-UA-Type X-Akamai-UA-Version</allowed-headers>
    <eccu-purge>off</eccu-purge>
</cache:key.force>
```

Advanced	â	
Description		
Advanced XML	<cache:key.force> <rule>(*,,X-Akamai-UA-Type X-Akamai-UA-Version,) URL</rule> <status>on-/status> <allowed-headers>X-Akamai-UA-Type X-Akamai-UA-Version</allowed-headers> <accu-purge>Off</accu-purge> </status></cache:key.force>	

Remove Vary Header

Remove Vary Header removes the caching of responses that are dependent on the user-agent.

Criteria

• If Response Header Vary is one of *User-Agent*

• Remove Vary Header: should require no change to the default value.

Remove Vary Header	
Remove Vary Header	On

Save the Template Property

The template property is now complete.

- 1. Click **Save** at the top or bottom of the page. An error banner "Save was successful but there are outstanding validation errors that must be resolved before activating" will be shown.
- 2. Click (X) to close the banner.
- 3. Click Back to Property.

ample_Property v1 Edit Activate Property Version Information Production Status PACTIVE Staging Status PACTIVE PA	roperty	v Mana	ager Editor	Back to Property ?
Edit Activate Chicard Changes Compare Version Edit New Version Production Status BACTIVE Stoging Status BACTIVE	xample_Pro	operty v1	3	
Property Version Information Production Status BIACTIVE Staging Status BIACTIVE Staging Status BIACTIVE Solution Aqua Solution Aqua	Edit	Activate		
Property Version Information Production Status INACTIVE Product Dynamic Site Accelerator Staging Status INACTIVE Solution Aqua Security Options - Standard TLS made Construct G-2016EED				Clarcerd Changes Compare Version Edit New Version
Production Status INACTIVE Product Dynamic Site Accelerator Staging States INACTIVE Solution Aqua Security Defines - Standard TLS ready Construct G-2015EED		. Manufactor In	formation	
Staging Status INACTIVE Solution Agus Security Defense	✓ Property	ly version in		
NOCEPTITY LICENSES STREET, LICENSES STREET, LICENSES, LI	Property Produ	oction Status	PACTIVE	Product Dynamic Site Accelerator
Enhanced TLS Modules Access Control	Property Produ	vction Status	NACTIVE NACTIVE	Product Dynamic Site Accelerator Solution: Aqua
	Property Produ State State W	y Version in action Status aging Status unity Options lension Notes	PMACTIVE BUACTIVE Standard TLS ready Compared TLS	Product Dynamic Site Accelerator Solution Aqua Contract G-2WSIFBD Modeles Access Control Advanced Official

Akamai Property Clone Setup

Create the property to be used in production by cloning the template.

- 1. Hover over the property named cpq_akamai_new_site.template in the Property Group page.
- 2. Click the gear icon in the **Action** column.
- 3. Click **Clone Property**. The Clone Property page opens.

Groups	new		×		All	~
CPQ_NonProd_G-2090EDD	Туре	Property Name	Staging	Production	Hostnames	Action
	\bigcirc	cpq_akamai_new_site.templ	-	-		¢-*
						Delete Property
						Cione Property 📕

4. Enter a Property Name. We recommend you use the vanity domain name so that it's easy to correlate.

5. Click Clone Property. The Property Manager Editor page opens.

Clone Pro	perty	
Create a new pro	operty by cioning another.	
Property Type	Property Manager	~
Property Version	Version 1	~
	Product Ion Premier	
	Contract • G-2090EDD	
Property Name	e.g. example.com	
	Name must be at least 3 characters	
Copy Hostnames?		
	Clone P	roperty
	· · · · · · · · · · · · · · · · · · ·	

6. Click **Enhanced TLS** for Security Options within the Property Version Information section.

none	rty Man	ager Editor			
Edit	Activate				
			Cancel	Compare Version Edit New Version	Save
✓ Prop	perty Version I	nformation			
Р	roduction Status	INACTIVE	Product	Ion Premier	
	Staging Status	INACTIVE	Solution	Aqua	
	Security Options	Standard TLS ready 0	Contract	G-2090EDD	
		Enhanced TLS	Modules	Access Control	
	Version Notes	Add notes for this property version		Adaptive Acceleration Advanced Offload Akamai Instant Booti Researce	

7. In Property Hostnames section, click **Add**. The Step 1: Add Hostnames – Hostnames page opens.

~	Property	Hostnames						Ø
0	At least o	ne property hostname is required.						
Fil	er by Hostn	ame or Edge Hostname				Edit Selected	Delete Selected	Add
	Status	Property Hostname	Certificate	Slot	Edge Hostname			IP Туре
0	Add a prop	erty hostname by clicking Add						

8. Enter the vanity domain name in the Add Hostname(s) field.

9. Click Next. Step 2: Add Hostnames – IP Version page opens.

Add Hostnames					×
	1 Hostnames	2 IP Version	3 Certificate	4 Edge Hostnames	
Use the standard method of hostname that we provide.	serving traffic through Akamai, w	here you specify the I	hostname that you v	vant to serve and CNAME	that hostname to an Akamal edge Clear All
Add Hostname(s)	Enter the property hostname(s	i) of the website or ap	plication that you w	ant to deliver from edge se	rvers.
Cancel					Previous Next

- 10. Select the applicable **IP Version**.
- 11. Click **Next**. The Step 3: Add Hostnames Certificates page opens.

Add Hostnames					×
	1 Hostnames	2 IP Version	3 Certificate	4 Edge Hostnames	
In most cases, IPv4 + IPv6 works well ask your systems administrator or sele IP Version IPv4 o IPv4 +	unless your origin app ct IPv4. nly IPv6 (dual stack)	lication has issues wi	ten passed IPv6 ad	dresses (in logs or True-Clie	ent-IP headers). If you are not sure,
Cancel					Previous Next

12. Select the vanity domain's certificate in the **Select Certificate** field.

Note: Hostname must match the certificate's domain name *exactly*.

13. Click **Next**. The Step 4: Add Hostnames – Edge Hostnames page opens.

Add Hostnames					×
	1	2	0		
	Hostnames	IP Version	Certificate	Edge Hostnames	
Certificates Matching All Property F	ostnames Pendin	o Certificates Mo	tifiable Certificates		
		y consistent of the			
The following certificates contain all t	e property hostnames	you previously enten	d. You can use any	of these certificates immediately	without modifying them.
				Modify Existing Certificates	Create New Certificate
Select Certificate					
cpq-n/	onprod.oracle.com	Enhanced TLS SAN	Expires 7/16/20 5:00	AM	1
0a:91:4	4:67:0a:c7:38:38:82:99:1	17:d7:a1:d4:ab:97			<u> </u>
Cancel					Previous Next

14. Click Submit.

Note: If the edge hostname is not auto-populated, click on the drop-down and select an edge hostname. The edge hostname should follow the convention *<hostname>*.edgekey.net where *<hostname>* is the vanity domain.

Add Hostnames				3
	1 2 Hostnames IP Version	Certificate Ed	ge Hostnames	
iach property hostname listed below rout our website or application.	es through the Akamai server using the e	dge hostname next to it. 1	The edge hostname is not	visible to users accessing
Property Hostname	Edge Hostname		IP Version	
tier3-176a.bigmachines.com	tier3-176a.bigmachines.co	m-v3.edgekey.net 💉	Pvi + Pvi	
items: 1	< 1 > 1		Items Per F	Page: 10 25 50
Cancel				Previous Submit

15. You should see a success message. Click **Close**.

Success	×
Success! Congratulational You successfully modified the property hostname to edge hostname associations for your website or application. Any newly created edge hostnames will go live when you activate your configuration in either staging or production.	
If you associated your property hostnames to new edge hostnames, remember to update your CNAME record. Be sure to follow these steps:	
Activate your configuration in staging, and wait for confirmation that the new edge hostname has been created. Test your configuration. Activate your configuration in production. Activate your configuration in production. Activate of CNAME record of your property hostname to point to the new edge hostname.	
Important! Traffic will not be directed to edge servers until this property has a complete configuration activated in the production environment. Do not update your DNS record before completing those steps. See Activating and Edge Hostnames for more information.	
Ciose	

- 16. Navigate to the Property Configuration Settings and click **Default Rule**.
- 17. Set the Origin Server values as follows:
 - Origin Server Hostname: < Oracle CPQ Hostname i.e. myCompany.bigmachines.com>
 - Verification Settings: Choose Your Own
 - Match CN/SAN To: *.bigmachines.com

you test on Staging be	ur Ongin Server SSL Certificate Verification settings it is strongly recommended that fore activating on Production. Failure to test on Staging may result in a service outag	ð.
Origin Type	Your Origin	~
Origin Server Hostname (variable support)	tier3-176.bigmachines.com	
Forward Host Header	Origin Hostname	~
Cache Key Hostname	Incoming Host Header	~
Supports Gzip Compression	Yes	
Send True Client IP Header	Yes	
True Client IP Header Name	True-Client-IP	
Allow Clients To Set True Client IP Header	No No	
Origin SSL Certificate Verific	tation	
Verification Settings	Choose Your Own	~
Use SNI TLS Extension	Yes	
Match CN/SAN To	*.bigmachines.com X	
Trust	Akamai-managed Certificate Authorities Sets	~
Akamai-managed	Akamal Certificate Store Enabled View CA Set	
Certificate Authority Sets	Third Party Cartificate Store	

18. In the Content Provider Code section, click **Create new...**

Content Provider Code		
Content Provider Code	1	Create new

19. You should see a default name (usually the template name). Click Create.

Create a new CP Code		×
You have 14988 remaining op cod	es before you exhaust your limit of 15000.	
Accept the default name for the new CP C or non-printable characters.	ode, or enter a custom name. CP Code names can be up to 128 alphanumeric characters, but cannot include _ , # * *	%
Name	den02scy.us.oracie.com	
If you utilize the log delivery service to rec- log capture you must complete this step b	live copies of your edge server logs, add log delivery for this CP Code by going to Configure > Log Delivery. To ensure Ifore activating the new CP Code on production.	
	Cancel Creat	

- 20. Navigate to the Property Configuration Settings and click Image Manager.
- 21. Click Create new... to create a new Pristine Images CP Code within the Traffic Settings section.
- 22. Add the suffix **-Pristinelmg** to the default template name, as specified in step 19.

23. Click Create.



- 24. Click **Create new...** to create a new **Derivative Images CP Code** within the Traffic Settings section.
- 25. Add the suffix **-DerivedImg** to the default template name specified in step 19.
- 26. Click Create.

ccept the default name for the new r non-printable characters.	CP Code, or enter a custom name. CP Code names can be up to 128 alphanumeric characters, but cannot include _ , # '
Nam	den02scy.us.oracle.com-DerivedImg
you utilize the log delivery service t g capture you must complete this s	a receive copies of your edge server logs, add log delivery for this CP Code by going to Configure > Log Delivery. To ens tep before activating the new CP Code on production.

- 27. Click Save at the top or bottom of the Property Manager Editor page.
- 28. Once ready for activation, click on the **Activate tab**. Each property file is versioned, and you can only overwrite the highest version that is not activated.

Proper ier3-176a.	ty Manager Editor			Back to Pr	operty ?
Edit	Activate				
		Discard Changes	Compare Version	Edit New Version	Savo
✓ Prop	erty Version Information				

29. Activate the property in the Staging Network by clicking on Activate v1 on Staging.

176a.bigmachines.com v1	
Edit	
Staging Network	Production Network
There is no active version Activate v1 on Staging	There is no active version Activate v1 on Production

30. (Optional) Add notes as desired.

31. Click Activate. A confirmation message displays.

Lun	Activat	e	
Staging	Network		
Yo Yo	ur configurat	tion was activated successfully	×
V1 is Ac	ur configurat tive	tion was activated successfully	×
V1 is Ac Activated of View Detail	tive	19	×
V1 is Ac Activated of View Detail	ur configurat tive on Sep 13, 20 Is	tion was activated successfully	×
V1 is Ac Activated of View Detail	tive on Sep 13, 20 Is	19	×

32. Test the site in the staging environment. See <u>Testing in Staging Environment</u>. Once all the tests are successful, then proceed to activate the property in production.

Testing in Staging Environment

When you activate a property to the staging environment, Akamai deploys the property file to its staging network. The staging network can be identified by replacing <hostname>.edgekey.net with <hostname>.edgekey-staging.net.

For example: if the edge hostname is vanity-domain.mySite.com.edgekey.net, then the staging network will be located at vanity-domain.mySite.com.edgekey-staging.net.

Follow the steps described below.

1. In a Windows command window, enter nslookup <hostname>.edgekey-staging.net. The IP Address returned here is an Akamai Staging Network edge server that will have the new configuration deployed.

Example:

2. Create a new /etc/hosts entry on your local server/workstation, for example:

23.206.156.158 vanity-domain.mySite.com.edgekey-staging.net.

EDIT HOSTS FILE

Windows 7 or higher:

- 1. Click Start -> All Programs -> Accessories
- 2. Right-click **Notepad** and select **Run** as administrator.
- 3. Click **Continue** on the "Windows needs your permission" UAC window.
- 4. When Notepad opens, click File -> Open
- 5. In the filename field, type C:\Windows\System32\Drivers\etc\hosts.
- 6. Click Open.

- 7. Add the line specified on step 2 above.
- 8. Save and Exit.

MAC/Linux

- 1. Open a terminal.
- 2. Type sudo vi /etc/hosts.
- 3. Enter required password.
- 4. Add the line specified on step 2 above.
- 5. Save and Exit (:wq).

DNS Change

1. Add a new CNAME record to the hostname DNS entry, to point the vanity domain name to the Akamai edge server that is configured in the property.

Example: vanity-domain.mySite.com CNAME to vanity-domain.mySite.com.edgekey.net

2. Run a dig command to verify the DNS routing.

PURGING AKAMAI CACHE

Akamai cache needs to be cleared whenever a property is activated.

To purge Akamai cache, perform the following steps:

- 1. In the Akamai Control Center, navigate to $\equiv \rightarrow$ **Purge cache**. The Fast Purge page opens.
- 2. Select **CP Codes** for Purge content by.
- 3. In the search field, enter the hostname to filter the list.
- 4. Click in the Select All check box to select all CP Codes from the filtered list.

ası	Purge	
ith Fast	Purge you can refresh your cached content across Akamai's network in just a few second	s. Automate Fast Purge via API / Cl
Pu	rge content by:	
	RLs Codes Acher Tags ache-Keys / ARLs (Advanced) rectory and Extensions (Advanced)	
0	Purging all objects for a CP code can increase load on your origin server, as objects a	re fetched from the origin.
	Purging all objects for a CP code can increase load on your origin server, as objects ter3-176a.	re fetched from the origin. Description
	Purging all objects for a CP code can increase load on your origin server, as objects iter3-176a.	re fetched from the origin. Description tier3-176a.bigmachines.com
	Purging all objects for a CP code can increase load on your origin server, as objects in tier3-176a. CP Code 889561 889562	re fetched from the origin. Description tier3-176a.bigmachines.com tier3-176a.bigmachines.com
	Purging all objects for a CP code can increase load on your origin server, as objects in tier3-176a. CP Code 889561 889562 889563	re fetched from the origin. Description tier3-176a.bigmachines.com tier3-176a.bigmachines.com

- 5. Depending on the need, set the Current Network to either Production or Staging.
- 6. Set the Purge Method to Invalidate.

7. Click Submit Purge. This action will take a couple of seconds to complete.

Current Network ⁹	
Purge Method 🛛	
Submit Purge	

DEACTIVATION AND ACTIVATION OF PROPERTY

To deactivate or activate a property, perform the following steps:

- 1. Hover over the property to be deactivated/activated in the Property Group page.
- 2. Click the gear icon in the **Action** column.
- 3. Click on the **Activate** or **Deactivate** action.

ype Version Based On Last Edited Author Notes Staging Production C Version 4 Version 3 Sep 13, 2019 gowtham.srid- haran@oracle- com Inactive Inactive Inactive C Version 3 Version 2 Sep 12, 2019 gowtham.srid- haran@oracle- com invalid domain ssl Deactivated Inactive C Version 2 Version 1 Sep 12, 2019 gowtham.srid- haran@oracle- com Testing SSL Verfication Deactivated Inactive C Version 1 - Sep 12, 2019 gowtham.srid- haran@oracle- com Testing SSL Verfication Deactivated Inactive C Version 1 - Sep 12, 2019 gowtham.srid- haran@oracle- com Testing SSL Verfication Deactivated Inactive Version 1 - Sep 12, 2019 gowtham.srid- haran@oracle- com Active Inactive Edit New Version - Sep 12, 2019 gowtham.srid- haran@oracle- com Active Inactive Edit New Version - - Sep 12, 2019 Gowtham.sr	Vers	sion History	Activation H	istory					
Vpe Version Based On Last Edited Author Notes Staging Production Image: Stage of the st								Reveal Hide	len Versions
Image: Sep 13, 2019 gowtham.srid-haran@oraclecom Inactive Inactive Image: Sep 13, 2019 gowtham.srid-haran@oraclecom Invalid domain ssl Deactivated Inactive Image: Sep 12, 2019 Sep 12, 2019 gowtham.srid-haran@oraclecom Invalid domain ssl Deactivated Inactive Image: Sep 12, 2019 Sep 12, 2019 gowtham.srid-haran@oraclecom Testing SSL Verfication Deactivated Inactive Image: Sep 12, 2019 Sep 12, 2019 gowtham.srid-haran@oraclecom Testing SSL Verfication Deactivated Inactive Image: Sep 12, 2019 gowtham.srid-haran@oraclecom Testing SSL Verfication Deactivated Inactive Image: Sep 12, 2019 gowtham.srid-haran@oraclecom Active Inactive Inactive	Гуре	Version	Based On	Last Edited	Author	Notes	Staging	Production	Actions
Image: Wersion 3 Version 2 Sep 12, 2019 gowtham.srid-haran@oracle com invalid domain ssl Deactivated Inactive Image: Wersion 2 Version 1 Sep 12, 2019 gowtham.srid-haran@oracle com Testing SSL Verfication Deactivated Inactive Image: Wersion 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive Image: Wersion 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive Image: Wersion 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive Image: Wersion 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive Image: Wersion 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive Image: Wersion 2 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive Image: Wersion 2 - - Sep 12, 2019 gowtham.srid-haran@oracle com Active View Review - - - - Sep 12, 2019 Edit New Version Edit New Version Edit New Version <td>0</td> <td>Version 4</td> <td>Version 3</td> <td>Sep 13, 2019</td> <td>gowtham.srid- haran@oracle com</td> <td></td> <td>Inactive</td> <td>Inactive</td> <td></td>	0	Version 4	Version 3	Sep 13, 2019	gowtham.srid- haran@oracle com		Inactive	Inactive	
Version 2 Version 1 Sep 12, 2019 gowtham.srid-haran@oracle com Testing SSL Verfication Deactivated Inactive Version 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive Version 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive roperty Actions - Schedule Event Open Support Case F Activate Deactivate Str - Open Support Case F Activate	\bigcirc	Version 3	Version 2	Sep 12, 2019	gowtham.srid- haran@oracle com	invalid domain ssl	Deactivated	Inactive	
Version 1 - Sep 12, 2019 gowtham.srid-haran@oracle com Active Inactive View Review Review Test This Stag Edit New Version Schedule Event Open Support Case F Activate Deactivate Stat Compare Compare Compare Compare Compare	\bigcirc	Version 2	Version 1	Sep 12, 2019	gowtham.srid- haran@oracle com	Testing SSL Verfication	Deactivated	Inactive	
View Review Property Actions Test This Stag Edit New Vers Edit New Vers Schedule Event Open Support Case F Activate Deactivate Stat Compare	\bigcirc	Version 1	E.	Sep 12, 2019	gowtham.srid- haran@oracle com		Active	Inactive	Q.
Property Actions Test This Stag Schedule Event Open Support Case F Activate Deactivate Stag Compare Compare								View	
Edit New Vers Schedule Event Open Support Case F Activate Deactivate Sta Compare	ropert	y Actions						Test This Stagin	g Version
Schedule Event Open Support Case F Activate Deactivate Str Compare								Edit New Versio	n
Deactivate Sta Compare		Schedul	e Event		Open Suppor	rt Case		F Activate	/
Compare								Deactivate Stag	ing 📕
	_							Compare	
View XML								View XML	
Download XM		200						Download XML	

HANDLING SITE CHANGES

Whenever the static content changes in the CPQ Site, the Akamai will refresh its cache based on the rule "Static Content" in the Akamai property. Currently it will refresh after one day. If cache needs to refresh sooner, then it needs to be purged manually. Refer to <u>Purging Akamai Cache</u>.

The static content can change in many ways. Below are example scenarios:

- CPQ Admins can change the static content.
- A fix/patch can be applied.
- The Site can be upgraded during the release window.

TROUBLESHOOTING

If the Akamai setup causes an issue, the Akamai server will send an error string. Use this string as a starting point for troubleshooting. For example, end users/clients will see errors similar to: **Reference #9.6f321cb8.1568339219.1181952b**.

To troubleshoot Akamai error strings, perform the following steps:

- 1. Copy the Reference # from the error page.
- 2. In the Akamai Control Center, navigate to $\Xi \rightarrow$ **Support** \rightarrow **Diagnostic Tools**. The Diagnostic Tools page opens.



3. Click Translate Error String under Service Debugging Tools.

Diagnostic Too	ols		
Diagnostic tools are resources	to identify, analyze, and troubleshoot common co	ontent delivery network issues on y	our own.
Network Debugging Tools		Service Debugging Tools	
Use this set of tools to debug any to learn more about that tool.	network related issues. Hover over each tool name	Use this set of tools to debug any A tool name to learn more about that	kamai service related issues. Hover over each tool.
Get User IP Details	View User IP Details	Translate an Akamaized URL	Translate Error String
Verify Akamai IP	Locate IP	ESI Debugger	Request Content (CURL)
Get Domain Details (DIG)	Test Network Connectivity (MTR)	View Logs (GREP) Get Error Statistics	Debug URL

- 4. Past the error number (only include the string that follows the #) that was copied in step 1 into the Error string field.
- 5. Click Submit.

00 0	
nslate Error String	
tool uses the error string from the reference number to fetch a summ	nary and log information for the error
occurred in the original request.	
IXample: Reletence #9.01040440.1310903401.2120078	
Error string 9.6f321cb8.1568339219.1181952b4	
	Submit
a s e	anslate Error String s tool uses the error string from the reference number to fetch a summ occurred in the original request. example: Reference #9.6f64d440.1318965461.2f2b078 Error string 9.6f321cb8.1568339219.1181952b

Results are shown in Summary and Error Logs tabs that you can use for analysis.

6. Click **Download Results** to save a local copy of the results.

sults		Download Result
Summary Erro	r Logs	
ummary		
URL Accessed by Client:	https://tier3-176a.bigmachines.com/v2_0/receiver/commerce/test	
HTTP Response Served:	503	
Date & Time:	Thu, Sep 12, 2019 22:33 GMT	
Epoch Time:	1568327603	
Client IP:	50.198.160.83 (TROUTDALE,OR,US)	
Connecting IP:	23.50.49.37 (SANJOSE,CA,US)	
Edge server IP:	23.50.53.38 (NEWYORK,NY,US)	
Origin Hostname:	tier3-176a.bigmachines.com	
Origin IP:	205.219.85.86 (CHICAGO,IL,US)	
User Agent:	PostmanRuntime/7.15.2	
Client Request Method:	POST	
Reason for Failure:	ERR_FWD_SSL_HANDSHAKE	

LOG DELIVERY SERVICE

The Akamai Log Delivery Service (LDS) provides server logs through log delivery service.

Akamai's infrastructure is constantly gathering log entries from thousands of edge servers around the world. LDS creates a copy of these logs and delivers them based on a predetermined schedule.

Note: Log delivery usually takes a day or two from the date of setup.

To set up the Akamai Log Delivery Service, perform the following steps:

1. In the Akamai Control Center, navigate to $\equiv \rightarrow$ **Common Services** \rightarrow **Log delivery**.



2. Click in the filter in the Delivery tab of the in the Log Delivery Service page.

3. Enter a CP Code to filter.

Log deliv	og delivery service				
To start a server logs To modify a log delive To create a log redeliv	delivery for an object ID, choose the appropriate Start a log delivery action. ery configuration, choose the appropriate Change settings action. very request, go to the Redelivery tab.				
Delivery	Redelivery				
All repor	t status			Bulk copy	
Q tier3-17	rea.big 🛞 🔶	View by	CP Code	~	

In the Action column, click on ··· → Start a log delivery → New. The Step 1: Create a Configuration – Log configuration page opens.

All report status				Bulk copy
Q tier3-176a.big 🛞			View by CP C	ode 🗸
Object ID	Products	Delivery	Status	Action
889561 - tier3-176a.bigmachines.co	Ion Premier		,	
889563 - tier3-176a.bigmachines.co	Ion Premier			
889562 - tier3-176a.bigmachines.co	Ion Premier		New	Start a log delivery
889564 - tier3-176a.bigmachines.co	Ion Premier		Сору	

- 5. Enter the date from when log entries need to be captured in the **Start date** field.
- 6. Select the **Indefinite end date** checkbox.
- 7. Select **combined** in the Log Format drop-down.
- 8. Enter a string to be the first token in the log filename, such as the domain name, for the **Log Identifier String**. For Pristine and Derived, use <domainname>–Pristinelmg, <domainname>–DerivedImg respectively.
- 9. Select Aggregate by log arrival time for the Aggregate Type.
- 10. Select the frequency desired from the **Delivery frequency** drop-down. Every 1 hour is a good selection to start with.

11. Click Next. Step 2: Create a Configuration - Delivery page opens.

Create a configura	tion for: 889561 - tier3-176a.bigmachines.com	n ×
	1 2 LOG CONFIGURATION DELIVERY CC	- 3 INTACT DETAILS
Log configuration		
Start date	09/24/2019	
Log format Log identifier string	combined V tier3_176a	This string will be the first token of the log filename. For example, if the identifier string is acme, the log filename is in the format: acme_1.w3c_S.200301019999-9999-0.gpg.
Aggregation Type	Aggregate by log arrival time Delivery frequency Every 1 hour Aggregate by hit time	This option allows you to receive log data in the order that it arrives from the edge servers. This is the fastest way to get log data, but it is more difficult to process. For example, a delivery that covers a 24-hour period will usually contain some data from the previous several days.
Cancel		Back

- 12. Select **FTP** for the Delivery Type.
- 13. Enter **<your SFTP server>** in the Machine field.
- 14. Enter <your SFTP username> in the Login field.
- 15. Enter < your SFTP password> in the Password field.
- 16. Enter the directory for the logs, such as akamai_logs/<hostname>/ in the Directory field. Ensure the directory structure accurately indicates the hostname for the relevant logs.
- 17. Select the **Secure via Secure FTP** checkbox.
- Select 2 MB (approx. 12 MB uncompressed logs) in the Approximate message size drop-down. You may increase the size, if necessary.
- 19. Select **GZIP** in the Encoding drop-down.
- 20. Click Next. The Step 3: Create a configuration Contact Details page opens.

1 2 3 LOG CONFIGURATION DELIVERY CONTACT DETAILS				
Delivery				
Log delivery				
Туре	FTP			
	Machine	SFTP.MySite.com]	
	Login	MyLogin]	
	Password	•••••]	
	Directory	akamai_logs/domainName/	To save logs in the FTP user's default directory,	
	🗹 Send via Se	ecure FTP	leave the directory neto blank.	
	○ Akamai NetSto ○ Email	orage 4		
Approximate message	2 MB (approx. 12 MB unc	ompressed logs) V]	
SIZE			1	1
Encoding	GZIP	~]	
Cancel			Back	Next

- 21. Enter the email addresses for delivery of the logs. The specified email accounts will also receive alerts if logs are not delivered.
- 22. Click Finish.

1 2 3 LOG CONFIGURATION DELIVERY CONTACT DETAILS
Contact details If we can't deliver the log files, we will send an email alert to the contact listed below. Make sure that this email address is checked on a daily basis. You may provide multiple addresses, delimited by commas. Email address(es) myemail@oracle.com ×
Cancel Back Finish

23. Navigate back to the Log delivery service and confirm that the status is **Active**.

Log delivery service				? Help
To start a server logs delivery for an object ID, choose the appropriate Start a log delivery action. To modify a log delivery configuration, choose the appropriate Change settings action. To create a log redelivery request, go to the Redelivery tab.				
Delivery Redelivery				
All report status				Bulk copy
Q cpq-non			View by CP Code	~
Object ID	Products	Delivery	Status ↑	Action
866319 - cpq-nonprod.oracle.com	Ion Premier	SFTPU	Active	

24. Repeat these steps for the other two CP Codes (Pristinelmg and DerivedImg) with the appropriate log identifier strings.

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