

IdP Setup: Okta

What

Starting with FileWave Version 14.2.0, we can use Okta for authentication from FileWave. We must create a new application in the Okta Portal and give FileWave access to it.

When/Why

This configuration is required if you want to use Okta for authentication during device enrollment or during login to the FileWave Web and Native administrator consoles.

How

 **Okta Admin UI**
The UI may look different depending on if you are using a Trial Okta organization or the regular, non-Trial version of the Okta.

Part 1: Login to the Okta Admin Portal

Okta Admin Portal

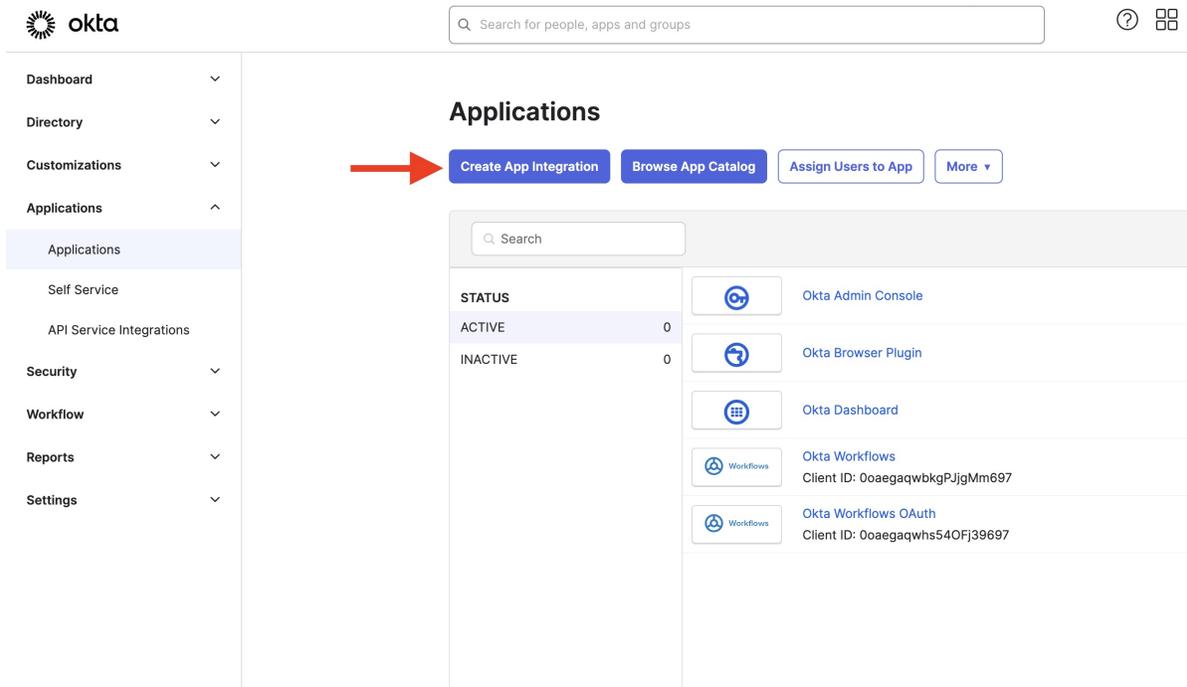
Begin by logging in to the Okta Admin Portal with an administrator's account. (<https://example-admin.okta.com/admin>)

Part 2: Create an Okta Application in the Okta Admin Portal

Create an Okta Application Integration in Okta Admin Portal

Now we are going to create an Okta application for FileWave to talk to and assign some rights to it.

1. First, open the Okta Admin > Menu > Applications > Applications menu and click the Create App Integration button.



The screenshot shows the Okta Admin Portal interface. On the left is a navigation menu with categories like Dashboard, Directory, Customizations, Applications, Self Service, API Service Integrations, Security, Workflow, Reports, and Settings. The 'Applications' menu item is expanded, and the 'Applications' sub-item is selected. The main content area is titled 'Applications' and features a search bar at the top. Below the search bar are four buttons: 'Create App Integration' (highlighted with a red arrow), 'Browse App Catalog', 'Assign Users to App', and 'More'. A table below the buttons shows the status of existing applications:

STATUS	
ACTIVE	0
INACTIVE	0

Below the table, there is a list of existing applications with their icons and names:

- Okta Admin Console
- Okta Browser Plugin
- Okta Dashboard
- Okta Workflows (Client ID: OoaeqaqwbkgPJgMm697)
- Okta Workflows OAuth (Client ID: Ooaeqaqwhs54Ofj39697)

2. Next, select OIDC - OpenID Connect for the Sign-in method.
 1. Select Web Application for the Application Type.
 2. Click the Next button.

Create a new app integration ✕

Sign-in method

[Learn More](#)

- OIDC - OpenID Connect**
Token-based OAuth 2.0 authentication for Single Sign-On (SSO) through API endpoints. Recommended if you intend to build a custom app integration with the Okta Sign-In Widget.
- SAML 2.0**
XML-based open standard for SSO. Use if the Identity Provider for your application only supports SAML.
- SWA - Secure Web Authentication**
Okta-specific SSO method. Use if your application doesn't support OIDC or SAML.
- API Services**
Interact with Okta APIs using the scoped OAuth 2.0 access tokens for machine-to-machine authentication.

Application type

What kind of application are you trying to integrate with Okta?

Specifying an application type customizes your experience and provides the best configuration, SDK, and sample recommendations.

- Web Application**
Server-side applications where authentication and tokens are handled on the server (for example, Go, Java, ASP.Net, Node.js, PHP)
- Single-Page Application**
Single-page web applications that run in the browser where the client receives tokens (for example, Javascript, Angular, React, Vue)
- Native Application**
Desktop or mobile applications that run natively on a device and redirect users to a non-HTTP callback (for example, iOS, Android, React Native)

Cancel Next

3. Next, configure your Application on the New Web App Integration page you've been redirected to.
 1. Input a meaningful name in the App integration name field.
 2. Click the Add URI button for the Sign-in redirect URIs setting.
 1. Input all of your FileWave Server's redirect URIs in the Sign-in redirect URIs setting.

Login Redirect URIs for FileWave are displayed in the FileWave Web Admin Settings. (Login to Web Admin > Select "⚙️" [Gear/Settings Icon] in top right > Identity Provider > Setup Okta > Get URLs)

1. Login Redirect URIs are unique to your server, but will look something like the following:

```
https://fwxserver.example.com:443/api/auth/login_via_idp_redirect
https://fwxserver.example.com:443/api/auth/login_via_idp_redirect_for_native
https://fwxserver.example.com:20443/api/auth/login_via_idp_redirect_for_device
```

3. Under Assignments, choose whether you want to limit access to specific groups or integrate all users in the organization.
4. Click the Save button to create the Okta App integration.

New Web App Integration

General Settings

App integration name

Logo (Optional)  


Grant type Client acting on behalf of itself
 Client Credentials

Core grants
 Authorization Code
 Refresh Token

[Advanced](#) ▼

Sign-in redirect URIs Allow wildcard * in sign-in URI redirect.

Okta sends the authentication response and ID token for the user's sign-in request to these URIs

[Learn More](#) ↗

✕

✕

✕

[+ Add URI](#)

Sign-out redirect URIs (Optional) ✕

After your application contacts Okta to close the user session, Okta redirects the user to one of these URIs.

[Learn More](#) ↗

[+ Add URI](#)

Trusted Origins

Base URIs (Optional) ✕

Required if you plan to self-host the Okta Sign-In Widget. With a Trusted Origin set, the Sign-In Widget can make calls to the authentication API from this domain.

[Learn More](#) ↗

[+ Add URI](#)

Assignments

Controlled access Allow everyone in your organization to access
 Limit access to selected groups
 Skip group assignment for now

Select whether to assign the app integration to everyone in your org, only selected group(s), or skip assignment until after app creation

5. After Saving, you'll be Redirected to the application General Settings page. Next to Client Credentials, select Edit and check the box next to Proof Key for Code Exchange (PKCE) and Save.



FileWave_Okta_Integration

Active ▾



View Logs

General

Sign On

Assignments

Okta API Scopes

Application Rate Limits

Client Credentials

Cancel

Client ID

00aegc849xrdkvdIK697

Public identifier for the client that is required for all OAuth flows.

Client authentication

Client secret

Public key / Private key

Proof Key for Code Exchange (PKCE)

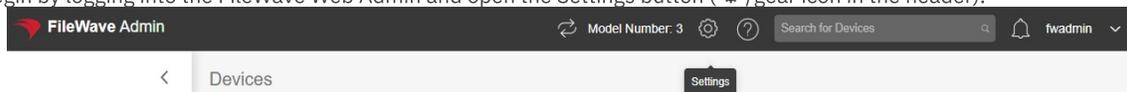
Require PKCE as additional verification

Part 3: Configure the Okta App in FileWave

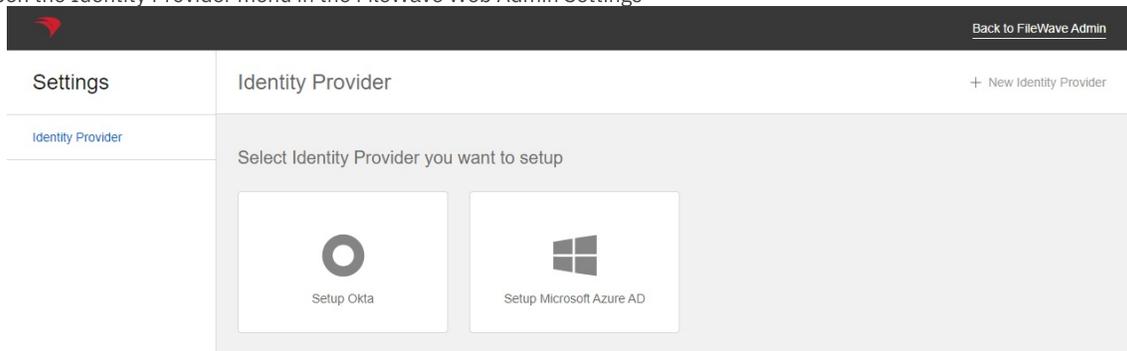
Configure an Okta App in the FileWave Web Admin Console

In order for FileWave to communicate with Okta for authentication the Okta App will need to be configured with FileWave.

1. Begin by logging into the FileWave Web Admin and open the Settings button ('⚙️'/gear icon in the header).



1. Open the Identity Provider menu in the FileWave Web Admin Settings



1. On the Identity Provider menu, click the Setup Okta button or New Identity Provider button in the top right if one has already been configured.
 1. Input a meaningful name in the Name field.
 2. Copy the Okta Client ID value found in the Okta page you were redirected to and paste in the Client ID field.



FileWave_Okta_Integration

Active ▾



View Logs

General

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Okta API Scopes

Application Rate Limits

Client Credentials

Edit

Client ID

Ooaegc849xrdkvdIK697



Public identifier for the client that is required for all OAuth flows.

Client authentication

Client secret

Public key / Private key

Proof Key for Code Exchange (PKCE)

Require PKCE as additional verification

CLIENT SECRETS

Generate new secret

Creation date

Secret

Status

May 20, 2024

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Active ▾

Settings

User Management

Identity Provider

Terms & Conditions

Identity Provider

Create new

IDP Type

Okta

Name

FileWave_Okta_Integration

Authentication for:

Enrollment

Use this provider to enroll registered Devices

Admin

Use this provider to import registered Admins

Login Redirect URLs

Copy URLs to your IDP settings in order to get responses from IDP.

Get URLs

Client ID

Ooaegc849xrdkvdIK697

Client Secret

.....

Domain

Your domain name

API Token

.....

Organization authorization server

Custom authorization server

Cancel

Create

3. Input the Okta Client Secret value in the Client Secret field.



FileWave_Okta_Integration

Active ▾



View Logs

General

Sign On

Assignments

Okta API Scopes

Application Rate Limits

Client Credentials

Edit

Client ID

Ooaeqc849xrdkvdIK697



Public identifier for the client that is required for all OAuth flows.

Client authentication

- Client secret
 Public key / Private key

Proof Key for Code Exchange (PKCE)

- Require PKCE as additional verification

CLIENT SECRETS

Generate new secret

Creation date

Secret

Copied!

Status

May 20, 2024

zfkj85LpDbY9t8oofCfwy2xoO6GRBEBD6Yb-uCtm1:



Active ▾

Settings

User Management

Identity Provider

Terms & Conditions

Identity Provider

Create new

IDP Type

Okta

Name

FileWave_Okta_Integration

Authentication for:

Enrollment



Admin



Use this provider to enroll registered Devices

Use this provider to import registered Admins

Login Redirect URLs

Copy URLs to your IDP settings in order to get responses from IDP.

Get URLs

Client ID ⓘ

Ooaeqc849xrdkvdIK697

Client Secret ⓘ

.....

Domain ⓘ

Your domain name

API Token ⓘ

.....

Organization authorization server

Custom authorization server

Cancel

Create

API Token

1. In Okta, open the Security > API menu and open the Tokens tab.

The screenshot shows the Okta Admin console interface. On the left sidebar, the 'Security' and 'API' menu items are highlighted with red boxes. The main content area is titled 'API' and has three tabs: 'Authorization Servers', 'Tokens', and 'Trusted Origins'. The 'Tokens' tab is active, and a 'Create token' button is visible. Below the button is a search bar with 'Token value' and 'Find token' buttons. A table displays token information:

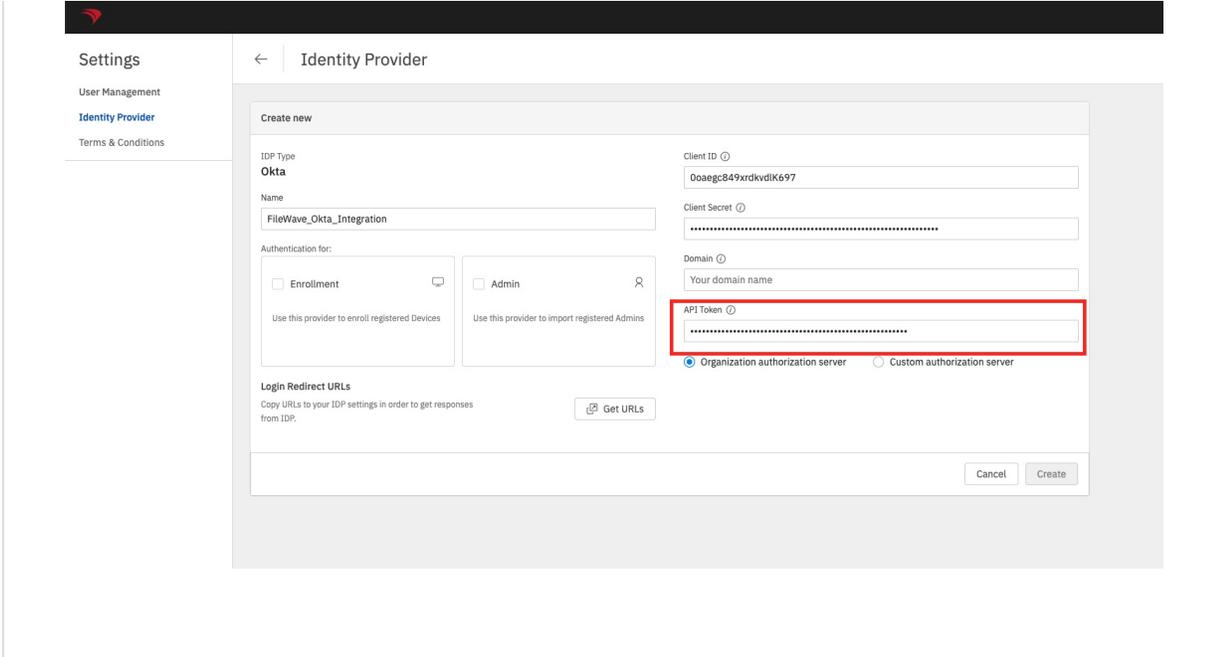
Token types	Token name	Created	Expires	Last used
All	0			
Health check				
Suspicious tokens	0			

Below the table, there is a message: 'Nothing to show. We couldn't find any tokens.' At the bottom of the page, there is a footer with copyright information: '© 2024 Okta, Inc. Privacy Status site OK14 US Cell Version 2024.05.0 E'.

2. Click the Create Token button in the Tokens tab.
3. Input a meaningful name in the API token's Name field.
4. Click the Create Token button in the Create Token dialog and copy the API token and store it in a secure location. (Okta API tokens are only displayed to be copied once, make sure to store this token somewhere secure for use in the future.)

The screenshot shows a 'Create token' dialog box. The dialog has a close button (X) in the top right corner. The main heading is 'Create token'. Below the heading is a green success message: 'Token created successfully!'. A warning message follows: 'Please make a note of this token as it will be the only time that you will be able to view it. After this, it will be stored as a hash for your protection.' Below the warning is a 'Token Value' field containing the text: '007XemtReA_QHd-ygrVqc8EK-KaUW7oHhNbg6HjiK'. There is a copy icon to the right of the text. At the bottom right of the dialog is a blue button labeled 'OK, got it'.

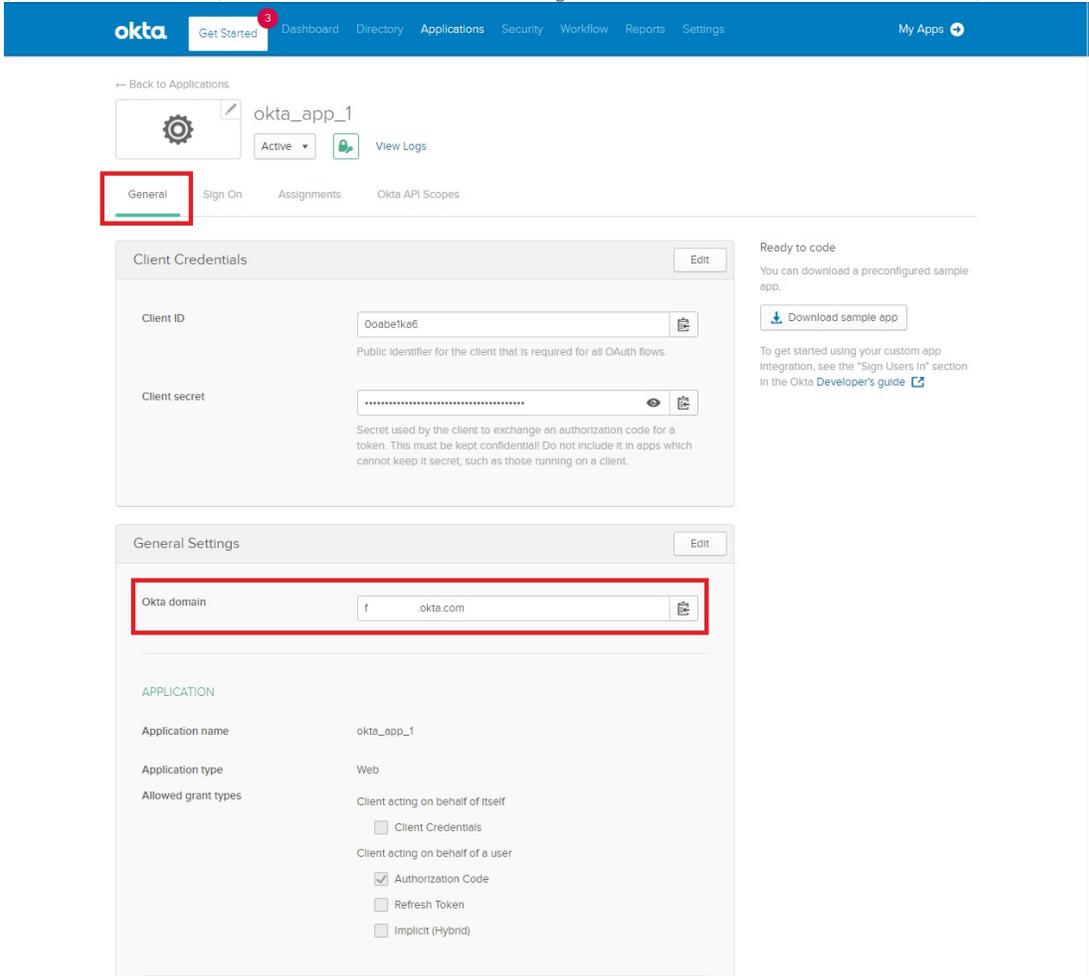
5. Copy and Paste the Token Value into the API Token field in the FileWave Admin Settings.



Okta Domain

1. Open the Okta Admin > Menu > Applications > Okta App > General tab and copy the Domain value to a secure location.

(*This is an older screenshot, the current trial Okta account that I am using at the time of this KB's creation doesn't have a domain)



2. Input the Okta Domain in the Domain field. The value in FileWave should not be saved with the "https://" portion.

Settings

- User Management
- Identity Provider**
- Terms & Conditions

Identity Provider

Create new

IDP Type: **Okta**

Name: FileWave_Okta_Integration

Authentication for:

Enrollment Admin

Use this provider to enroll registered Devices Use this provider to import registered Admins

Client ID: 00aegc849xrdkvdllK697

Client Secret:

Domain: filewave.com

API Token:

Organization authorization server Custom authorization server

Login Redirect URLs

Copy URLs to your IDP settings in order to get responses from IDP. [Get URLs](#)

Cancel Create

Part 4: Configuring and Authenticating with Okta Users

Configure an Okta Identity Provider for Authentication

An Okta App will need to be configured in the FileWave Identity Provider settings for use with FileWave Device enrollment and/or FileWave Admin authentication.

1. Begin by logging into the FileWave Web Admin and open the Settings button (gear icon in the header).
2. Click the Edit button on the Okta App card that will be used for authentication.
3. Check the Enrollment checkbox if you want to use this Okta App authentication for FileWave Device enrollment.
4. Check the Admin checkbox if you want to use this Okta App for FileWave Central and FileWave Anywhere console authentication.

i Only one Identity Provider App instance (Okta, Azure AD, etc.) can be configured with the Admin authentication for each type of Identity Provider.

i Only one Identity Provider can be configured for FileWave Device Enrollment authentication.

Settings

- Identity Provider**

Identity Provider

Edit Identity Provider

IDP Type: Okta

Name: Okta Test

Authentication for:

Enrollment Admin

Use this provider to enroll registered Devices Use this provider to import registered Admins

Client ID: 00abe1ka6

Client Secret:

API Token:

Domain: f.okta.com

Organization authorization server Custom authorization server

Login Redirect URLs

Copy URLs to your IDP settings in order to get responses from IDP. [Get URLs](#)

Cancel Remove Save

5. Click the Save button on the Okta App to confirm any authentication changes.

Configure FileWave Admin IdP Groups

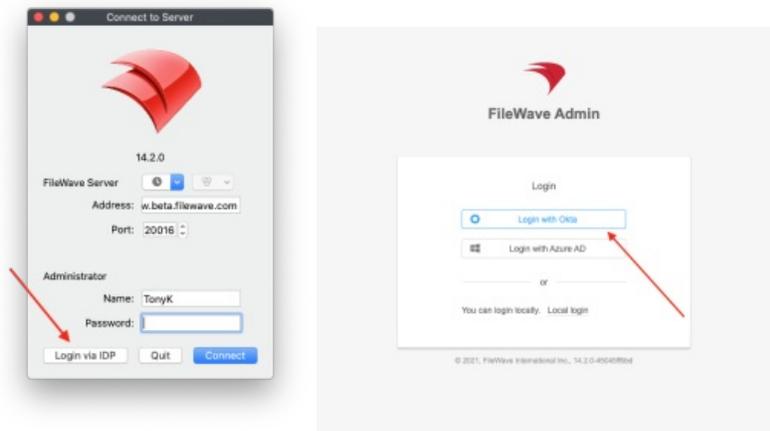
- FileWave Admin IDP Groups will need to be created in order to use the Okta App for authentication with the FileWave Native or Web Admin console.
- See: [Adding IdP Groups for FileWave Authentication](#)

Authenticate with Okta during FileWave Device Enrollment

- Once the Enrollment checkbox is set for an IDP configuration then the Okta App can be used for authentication during FileWave Device enrollment.
- See: [Configuring DEP Profiles for IDP Authentication](#)

Login with Okta for FileWave Native or Web Admin Console

- Once FileWave Admin IDP Groups are created for an Okta App the Login with Okta option can be used with the FileWave Native or Web Admin console for authentication.
- See: [Admin Login in Using an IdP Provider](#)



Related Content

- [IdP Setup: Azure AD](#)
- [Adding IdP Groups for FileWave Authentication](#)
- [Adding IdP Groups for FileWave Authentication](#)
- [Admin Login in Using an IdP Provider](#)

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