



# Auth0 Enterprise Architect Cookbook

B2B & CIAM/B2C best practices based  
on real-world implementations



Auth0

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Knowing what we want to achieve isn't always the same thing as knowing how to get there. Knowing **what to do** and **why to do it** can solve a lot of challenges. For Auth0 identity, our team has documented best practices grounded in the experience of our solution architects and customers.

The Auth0 Enterprise Architect Cookbook lays out a delivery approach for B2B and B2C use cases regardless of where you are in your project — from greenfield through mixing legacy implementations.

You'll find a suggestion for phased delivery mapped to milestones and feature areas, as well as implementation checklists designed to have you live as quickly as possible.

And because, as Principal Architect Vittorio Bertocci points out in this brief [video](#), working in the identity space can be “a wild ride,” you'll also find links to our evolving set of guidance.

(You can also obtain detailed guidance regarding specific functionality by speaking with your account representative or a member of our Auth0 [Professional Services](#) team.)

# CIAM/B2C Planning Guide

## Introduction

This document provides planning guidance for integrating Auth0 within a CIAM style project, and is based on real world customer implementation experience. Customers implementing Auth0 for CIAM (a.k.a. B2C) focused projects, regardless of vertical or market, typically find they have a common set of goals and objectives they need to consider and plan for. This document distills our experience working with these customers in order to help you deliver your solution in the most effective manner. By following the advice provided, you are setting your project up for success.

Identifying your primary objectives early on will help your teams focus on the specifics important to building out your solution. For instance, if your primary objective is to avoid disruption for end-users and provide continuity of service, then you shouldn't adopt a "big- bang" approach when integrating with Auth0.

In our experience, customers who've established clear objectives and who have aligned those objectives to requirements early on have benefitted the most when it comes to integrating with Auth0. Whether working on a green-field project, or modernizing identity and access management across an established application suite, our customers have been most successful when they plan their project using a phased approach across multiple workstreams.

Customers who also adopt an iterative release style typically make better progress. For example, you may have three or four applications you wish to integrate and instead of tackling them all at once, consider treating your project as a series of iterations tackling one application at a time. This way your teams can benefit from experience, and can leverage this to help increase velocity with each iteration.

Whilst adopting an iterative release style will improve your time to market, if you do have multiple applications and you want Single Sign On (SSO) support then our [Architecture](#) guidance will help you understand what you need to consider.

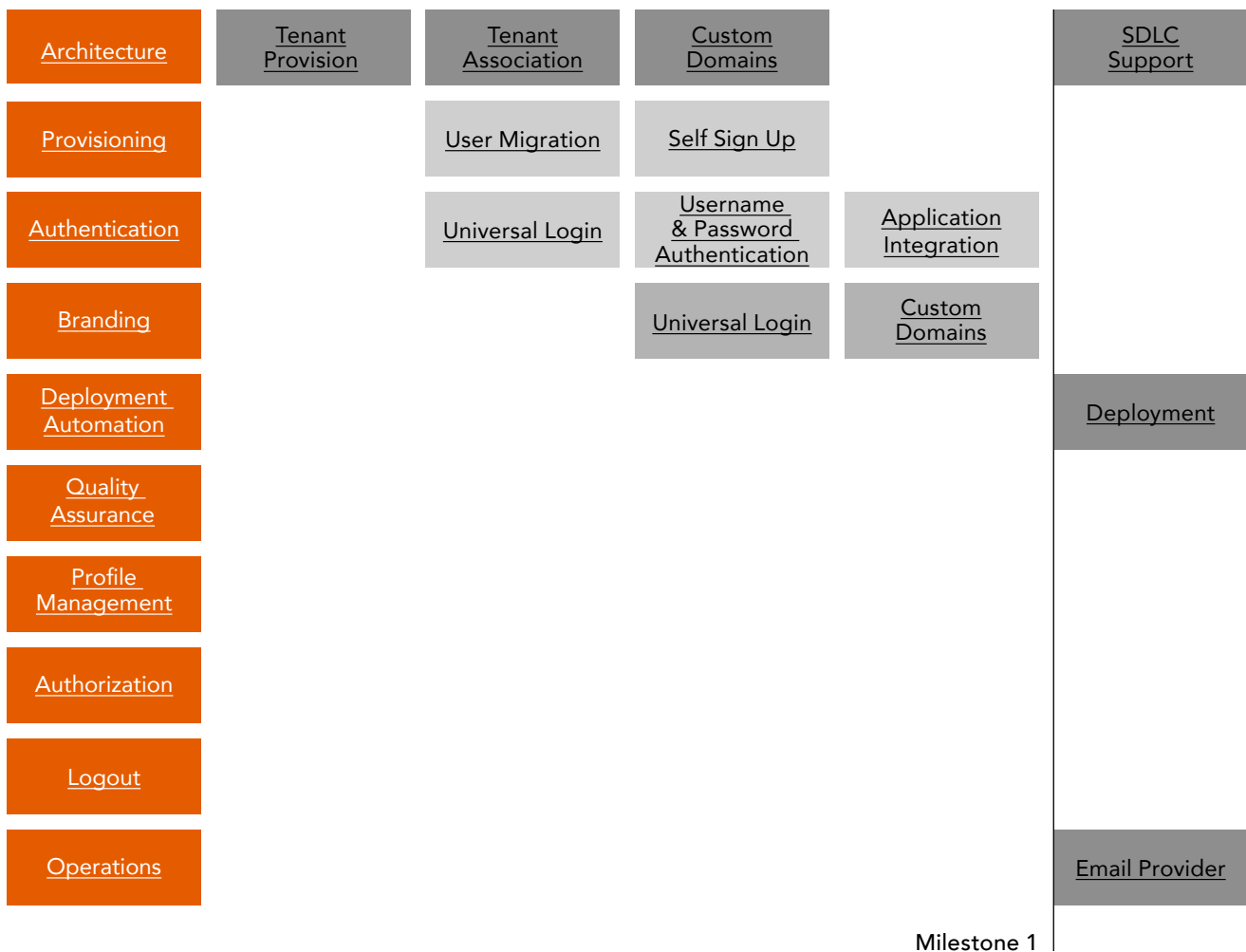
There may also be other groups within your organization who've also been working with Auth0, and from whom you could gain first-hand experience too; it's not uncommon for our customers to have disparate departments within their organization who serve different user communities. The team at Auth0 may be able to assist you in identifying these, and doing so early will help you in structuring your work.

## Phase 1

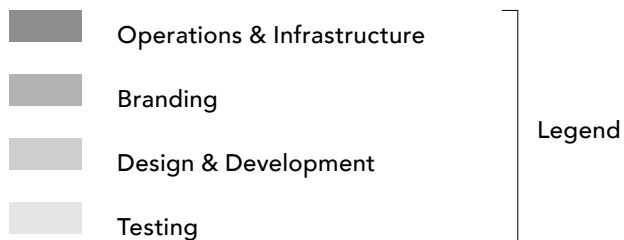
In almost all cases we've observed that our most successful customers adopt a multi-phase approach when it comes to project planning and execution. Phase 1 focuses on integrating your Application(s) with Auth0 to provide user Authentication, and is a pre-cursor to all other activities involving the use of Auth0. During Phase 1 you'll tackle the 10 key stages to Go-Live, across 3 key milestones, and by tackling the main risk items will address the most critical paths associated with integration.

# Planning: Phase 1 - Application integration and User Authentication

## Workstreams



## Audience

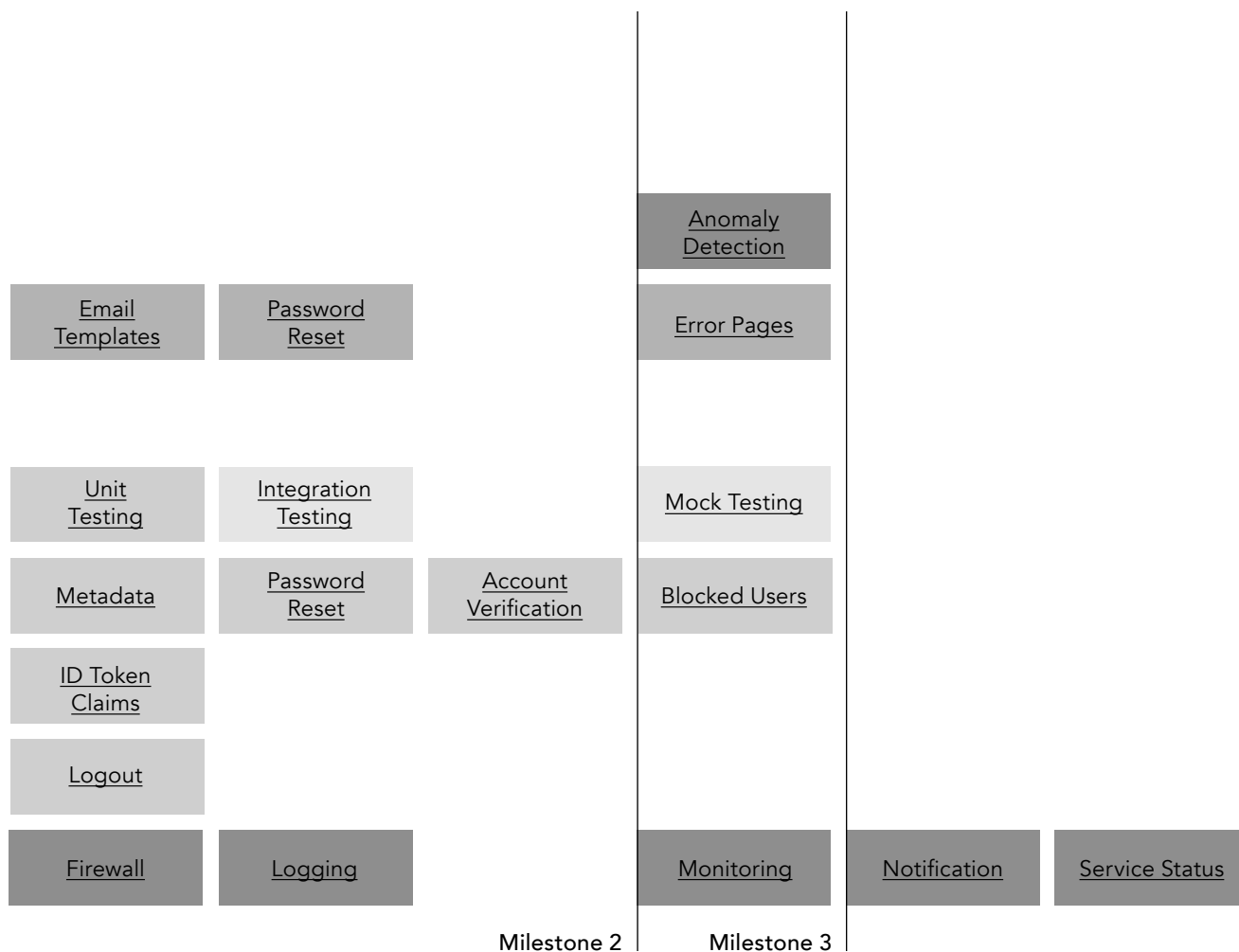


## Milestones

Milestone 1: Authentication  
Demonstration to stakeholders.

Milestone 2 : Demonstration to  
stakeholders.

Milestone 3: Go-Live Deployment to  
Production



As can be seen from the diagram above (click to navigate), at the end of Phase 1 you'll have working implementation that integrates with Auth0 to provide user Authentication across your application(s). This can be taken into production, or at the very least be provided as part of an early adopter or Beta program.

Phase 1 consists of a number of workstreams, with a number of topics in each. The workstreams, topics and the order in which you address each is important, so we recommend you follow the guidance prescribed. That's not to say you can't or shouldn't tackle work in parallel: Provisioning and Authentication, for example, could be tackled independently and at the same time, and these could both be tackled in parallel with your Branding efforts.

In most successful integration cases we've also found that different teams tackle different streams, and that this can provide significant benefit: your design and development team(s) would typically tackle implementation whilst at the same time your branding team would tackle Auth0 asset customization thus reducing overall time to market.

✓ **Architecture** is the first workstream you will cover, with **Tenant Provision** being the precursor topic to all others. Other topics to address at this stage include:

✓ **Custom Domains**,

✓ **Tenant Association**, and

✓ Support for the **Software Development Life Cycle (SDLC)**

✓ **Provisioning** is the next workstream, and this can be done in parallel with **Authentication**. We've found that the most successful implementations address the following topics at this stage during Phase 1, however precisely what you tackle will depend on your specific requirements - i.e. you may not need User Migration for example, or you may already have an existing sign up mechanism that can be leveraged :



✓ User Migration, and/or

✓ Self Sign Up

The Auth0 **Dashboard** in conjunction with the **Delegated Administration** extension can be used out-of-box to provide for **user deprovisioning** (as well as provisioning). If you require more comprehensive deprovisioning functionality - say for compliance reasons - then refer to the Provisioning guidance provided in Phase 2.

✓ **Authentication** comes next and can be done in parallel with **Provisioning**. Topics to address at this point will include:

✓ Universal Login

✓ Username and Password Authentication,

✓ Application Integration, and

✓ Anomaly Detection

✓ **Branding** can be done in parallel with **Provisioning** & **Authentication**, and with most customers would typically be handled by their branding team. Topics to address here include:

✓ Universal Login page customization,

✓ Naming for your Custom Domain,

✓ Change Password page customization,

✓ Error Page customization, and

- ✓ **Email Template** customization (though we recommend you follow **Operations** guidance before doing so).

By this point you will have completed major work required to integrate an application, will have addressed the most significant risk items, and will also be able to provide demonstrable functionality to stakeholders too. From here on in you'll be working towards production Go-Live. As you progress through the remaining workstreams and topics you can start to align your Auth0 tenants with your SDLC, and you'll be steadily and progressively reducing risk as you go. You'll also have the opportunity to demonstrate further functionality to stakeholders, which will also help you to garner feedback from the rest of the business:

- ✓ **Deployment Automation**. Up 'till now you'll most likely have been working with the one Auth0 development Tenant created as part of **Provisioning**. Auth0 tooling to automate deployment of assets will now allow you to utilize additional tenant provision in preparation for your testing effort and also your production release - providing you with stable environment(s) which can be used for both demonstration and evaluation.
- ✓ **Quality Assurance** mechanisms should now be employed to ensure any breakages due to defects or changes are detected early, and this is where Auth0 tenant provision for QA will be utilized. Topics to address here include:

- ✓ **Unit testing**,
- ✓ **Mock testing** and
- ✓ **Integration testing**

✓ **Profile Management** will address the most common cases for the changes users will want to make to their profile. We've found the most successful implementations address the following topics at this point during Phase 1, however precisely what you tackle will depend on your specific requirements (i.e. you won't need to provide for metadata management if you're not utilizing user metadata):

✓ **Metadata** management,

✓ **Password Reset**,

✓ **Account Verification**, and

✓ **Blocked Users**

✓ **Authorization**, at this stage, is for customers who have specific access control requirements, and the focus for Phase 1 will be centered on how custom ID Token Claims can be leveraged to support this.

✓ **Logout** comes next on the agenda. Eventually users will want to log out of your system and you'll need to decide exactly what this looks like. Auth0 supports several variations when it comes to user logout giving you flexibility to choose what works best for your implementation.

✓ **Operations** can be addressed in parallel, though we do recommend you setup your email provider early on, as this will enable you to minimize disruption moving forward as well as allow you to quality test specific functionality not possible with out-of-box email provision. Topics to cover here will include:

✓ **Email Provider Setup**,

✓ **Monitoring**,

✓ **Logging**,

✓ **Firewall** configuration, and

✓ **Notifications**

Congratulations! Reaching this point you have integrated with Auth0 to provide user Authentication and are ready for Go-Live. If you've not already done so, you can align your Auth0 production tenant via **deployment automation** and run any final QA in preparation for production release. As you move forward you'll want to keep a watch for **Notifications** from Auth0, which may contain important information that could impact your tenant(s) and/or project(s) going forward.

## Phase 2

Phase 2 builds on the work conducted as part of Phase 1, and will primarily focus on integrating your API(s) with the Authorization capabilities provided by Auth0; completing Phase 1 is a precursor to Phase 2.

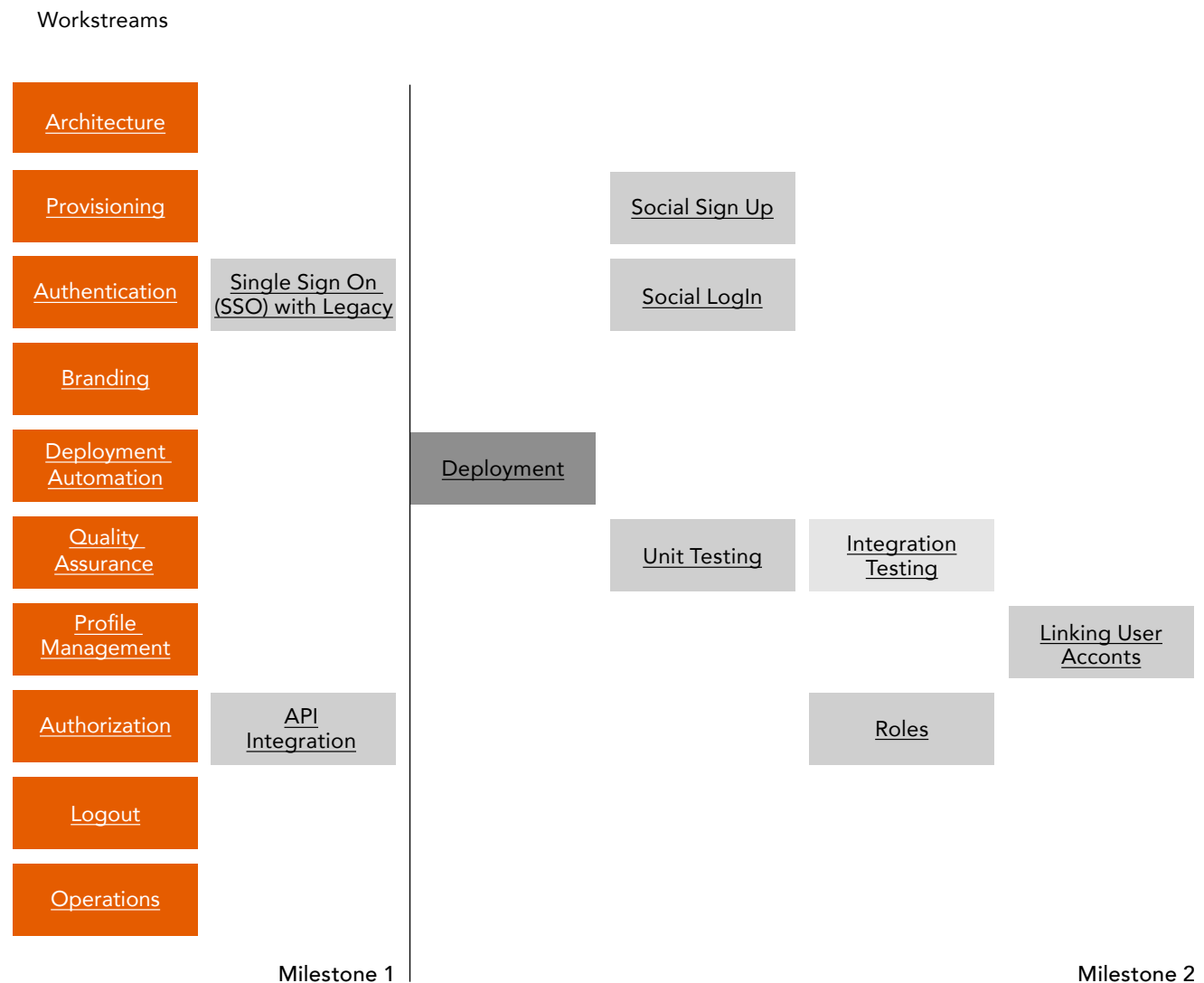
In Phase 2 you'll also address additional aspects of Authentication, Provisioning and Profile Management. Having completed Phase 1 activities as prescribed, Auth0 capabilities allow you to incorporate elements of advanced functionality in these areas, to provide enhanced capability in short order.

As with **Phase 1**, Phase 2 consists of a number of workstreams with a number of topics in each as illustrated in the diagram below (click to navigate). The workstreams, topics and the order in which

you address each is important, so we recommend you follow the guidance prescribed. That's not to say you can't or shouldn't tackle work in parallel: Authorization and advanced Authentication, for example, could be tackled independently and at the same time, and these could both be tackled in parallel with your Branding or advanced Profile Management efforts.

The nature of Phase 2 means that work is less prescribed than in Phase 1. Unconnected topics such as API Integration and Social Login can be tackled independently – or not at all. However some of these do still have dependent relationships – Linking User Accounts for instance is something we would recommend if you are considering any of the Social workflows.

# Planning: Phase 2 - API Authorization and advanced Authentication, Provisioning and Profile Management



## Audience

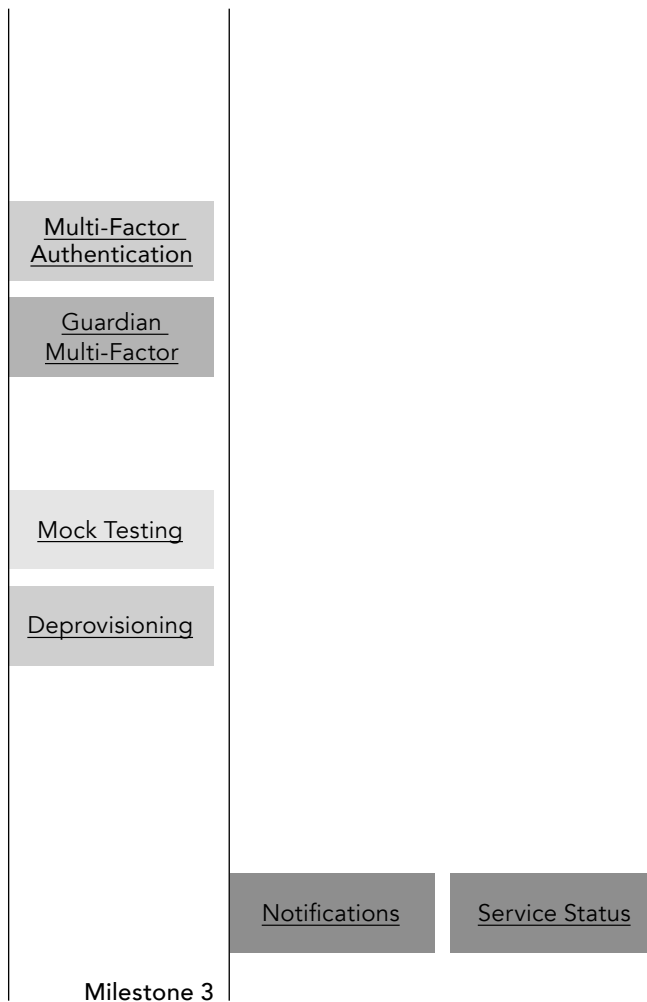


## Milestones

Milestone 1: Authentication  
Demonstration to stakeholders.

Milestone 2 : Demonstration to  
stakeholders.

Milestone 3: Go-Live  
Deployment to Production



Utilizing continuous integration established in Phase 1 (as part of **Deployment Automation**), Phase 2 work can be taken into production in an accelerated fashion - or at the very least be provided as part of an early adopter or Beta program.

In a fashion similar to Phase 1, the majority of successful integration cases in Phase 2 have found significant benefit from having different teams tackle different streams: your design and development team(s) would typically tackle implementation whilst at the same time your branding team would tackle Auth0 asset customization thus reducing overall time to market.

✓ **Authorization** is the first workstream you'll cover, with API Integration being the focus topic on the agenda. Auth0 supports the **OAuth2** protocol, the industry-standard for authorization, as a first class citizen and using the capabilities provided you can implement secure access to any Application Program Interfaces you supply. Of course, if you have no API integration requirements – either because you have no APIs, or provide no public facing APIs – then this workstream can be skipped.

✓ **Authentication** comes next, and can be done in parallel with both **Authorization** and **Deployment Automation** to provide advanced functionality to your Phase 1 implementation. Topics to address at this point may include:

✓ SSO with Legacy,

✓ Social Login, and

✓ Multi-factor authentication - an industry recommendation in many cases

✓ **Deployment Automation** setup in Phase 1 can be used to automate deployment of assets, allowing you to utilize **SDLC supporting tenant provision** in preparation for your testing effort and also



your production release - providing you with stable environment(s) which can also be used for both demonstration and evaluation.

- ✓ **Quality Assurance** mechanisms employed in Phase 1 can be used to ensure any breakages due to defects or changes are detected early, and this is where Auth0 tenant provision for QA will be utilized. Topics to address here include:

- ✓ **Unit testing**,

- ✓ **Mock testing** and

- ✓ **Integration testing**

- ✓ **Provisioning** is the next workstream, and this can be done in parallel. We've found that the most successful implementations address the following topics during Phase 2, however precisely what you tackle will depend on your specific requirements - i.e. you may not need Social integration so will have no need to implement that workflow:

- ✓ Social Sign Up

- ✓ **Profile Management** will address advanced use cases for changes to a user's profile. We've found the most successful implementations address the following topics at this point during Phase 2, however precisely what you tackle will depend on your specific requirements (i.e. you probably won't need to implement User Account Linking if you don't support Social authentication and/or don't want to support a common profile for a user):

- ✓ Linking User Accounts - particularly recommended when utilizing Social workflows

- ✓ Deprovisioning

✓ **Branding** can be done in parallel other work items, and with most customers would typically be handled by their branding team - though if you have no plans to support multi-factor authentication then there's no need to engage in Guardian multi-factor branding activities. However, as multi-factor is an industry recommendation in many cases, adding your brand is a recommended best practice at this time.

Congratulations! Reaching this point you have integrated with Auth0 to provide API Authorization as well as advanced user Authentication, and are ready for Go-Live deployment to production (if you've not already done so via continuous integration). If you need to, now is the time to align your Auth0 production tenant via **deployment automation** and run any final QA in preparation for production release. As you move forward you'll want to keep a watch for **Notifications** from Auth0, which may contain important information that could impact your tenant(s) and/or project(s) going forward.

## Phase 3

Phase 3 builds on the work conducted as part of **Phase 2**, and deals with more specialized use cases – utilizing both standard out-of-box functionality, as well as specialized customization built using Auth0 out-of-box features. Phase 3 primarily focus on use cases which, though more specialized, we nevertheless see occur on a relatively frequent basis. Completing Phase 1 is a pre-cursor to Phase 3, though Phase 2 need not necessarily be a phase on which Phase 3 is predicated.

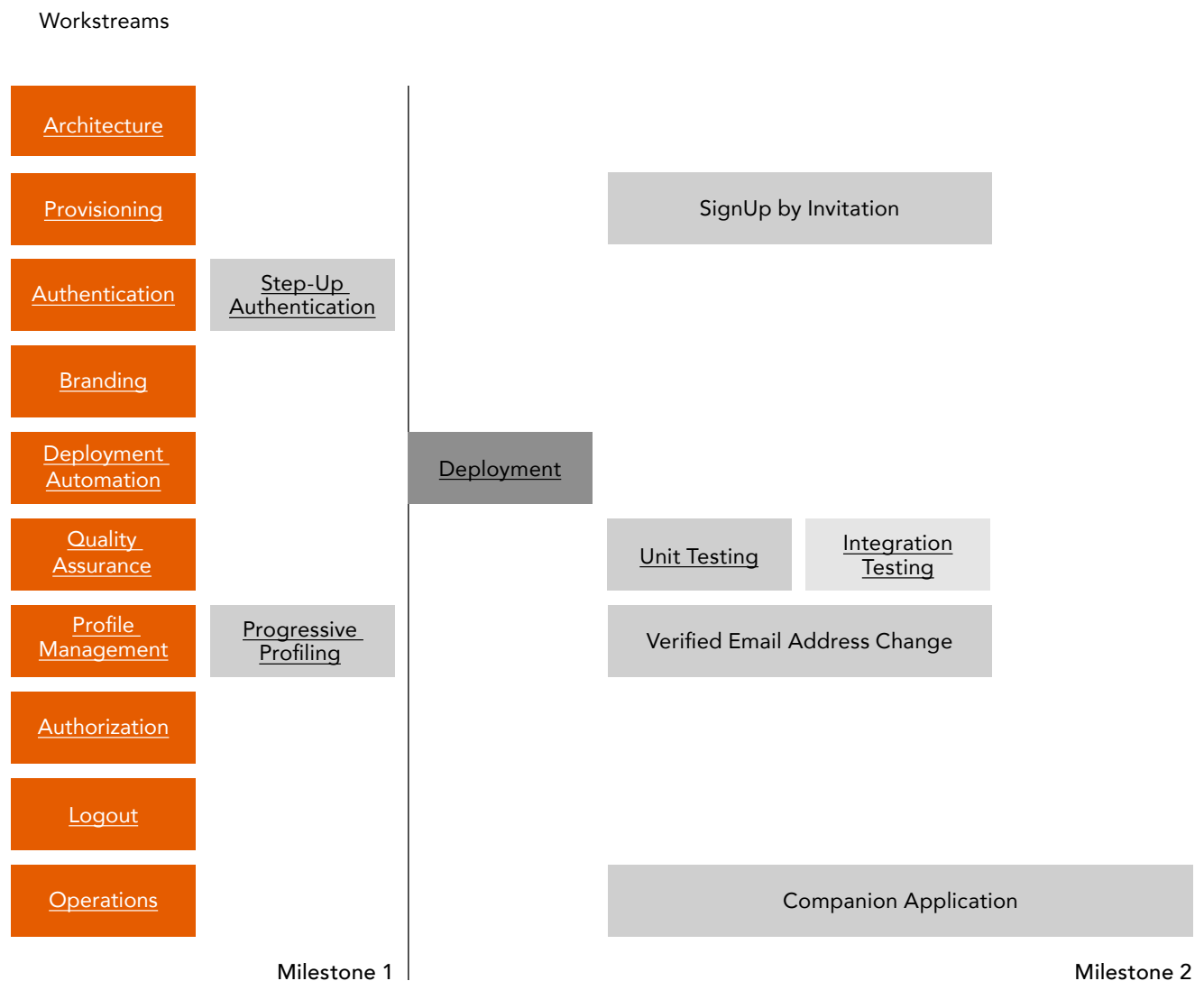
Utilizing Continuous Integration established in Phase 1 (as part of Deployment Automation), Phase 3 work can be taken into production in an accelerated fashion similar to Phase 2 - or at the very least be

provided as part of an early adopter or Beta program. The diagram below (click to navigate) describes each of the Phase 3 workstreams with a number of topics in each.

In Phase 3, as in **Phase 1** and **Phase 2**, there are a number of workstreams with a number of topics in each. The workstreams, topics and the order in which you address each is important, so we recommend you follow the guidance prescribed. That's not to say you can't or shouldn't tackle work in parallel: Progressive Profiling, for example, could be tackled independently and at the same time as Step-up Authentication.

Of all the phases, Phase 3 is the least prescribed: there are a variety of unconnected work stream topics which can be tackled independently – or not at all. However for some of the custom solution topics – such as Signup by Invitation and Verified Email Address Change – items such as Redirect Page branding are advised.

# Planning: Phase 3 - Extended use cases for Authentication, Profile Management and Operations support



## Audience

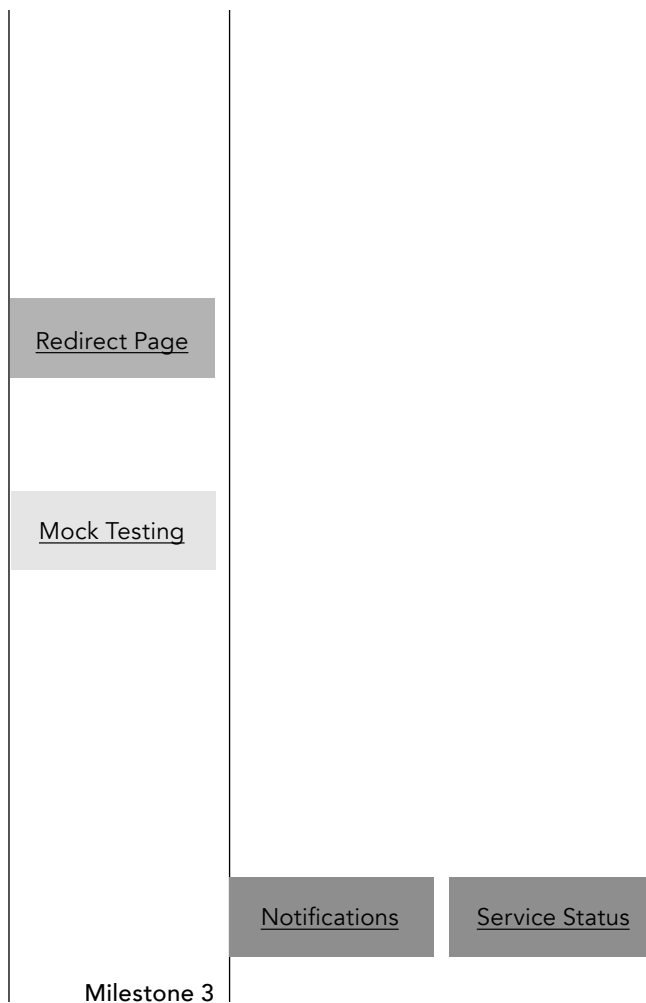


## Milestones

Milestone 1: Authentication  
Demonstration to stakeholders.

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Again, as with **Phase 1** and **Phase 2**, in the majority of successful integration cases we've found that different teams tackle different streams, and that this can provide significant benefit: your design and development team(s) would typically tackle implementation whilst at the same time your branding team would tackle Auth0 asset customization thus reducing overall time to market.

- ✓ In the **Authentication** workstream, tackling topics such as Step-up Authentication is a common occurrence for customers who have implemented use of MFA in Phase 2, and topics such as Signup by Invitation.
- ✓ In **Profile Management**, topics such as Progressive Profiling enable a rich user experience, whilst at the same time reducing user frustration by mitigating the need for extensive registration forms. Whilst specialized customization for Verified Email Address Change as part of user self-service workflow, provides functional flexibility in a completely safe and secure fashion.
- ✓ Signup by Invitation specialized customization provides support for **Provisioning** use cases that involve “basket checkout” type workflow (otherwise referred to as the Anonymous Browsing scenario).
- ✓ Providing a Companion Application (via specialized customization) can, in many cases, be a good secure alternative for use cases involving Impersonation – i.e. in cases where your support team(s) need to perform actions on behalf of a customer as part of your **Operations** infrastructure.

Congratulations! Reaching this point you have integrated with Auth0 to support extended use cases and are ready for Go-Live deployment to production (if you've not already done so via continuous integration). If you need to, now is the time to align your Auth0 production tenant via **deployment automation** and run any final QA in preparation for production release. As you move forward you'll want to keep a watch for **Notifications** from Auth0, which may contain important information that could impact your tenant(s) and/or project(s) going forward.

The guidance provided describes our recommended strategy for integrating Auth0 in a CIAM project. The guidance provided will be updated from time to time, and we recommend you check with our [scenario guidance](#) as you progress. If you require more detailed guidance regarding specific functionality and/or specific use case scenarios then we recommend you engage with the [Professional Services](#) team here at Auth0.

# B2B Planning Guide

## Introduction

This document provides planning guidance for integrating Auth0 within a Business-to-Business IAM style project, and is based on real world customer implementation experience. Customers implementing Auth0 for Business-to-Business IAM (a.k.a. B2B) focused projects, regardless of vertical or market, typically find they have a common set of goals and objectives they need to consider and plan for. This document distills our experience working with these customers in order to help you deliver your solution in the most effective manner. By following the advice provided, you are setting your project up for success.

Identifying your primary objectives early on will help your teams focus on the specifics important to building out your solution. For instance, if your primary objective is to avoid disruption for end-users and provide continuity of service, then you shouldn't adopt a "big- bang" approach when integrating with Auth0.

In our experience, customers who've established clear objectives and who have aligned those objectives to requirements early on have benefitted the most when it comes to integrating with Auth0. Whether working on a green-field project, or modernizing identity and access management across an established application suite, our customers have been most successful when they plan their project using a **phased** approach across multiple workstreams.



Customers who also adopt an iterative release style typically make better progress. For example, you may have three or four applications you wish to integrate and instead of tackling them all at once, consider treating your project as a series of iterations tackling one application at a time. This way your teams can benefit from experience, and can leverage this to help increase velocity with each iteration.

Whilst adopting an iterative release style will improve your time to market, if you do have multiple applications and you want Single Sign On (SSO) support then our [Architecture](#) guidance will help you understand what you need to consider.

There may also be other groups within your organization who've also been working with Auth0, and from whom you could gain first-hand experience too; it's not uncommon for our customers to have disparate departments within their organization who serve different user communities. The team at Auth0 may be able to assist you in identifying these, and doing so early will help you in structuring your work.

## Phase 1

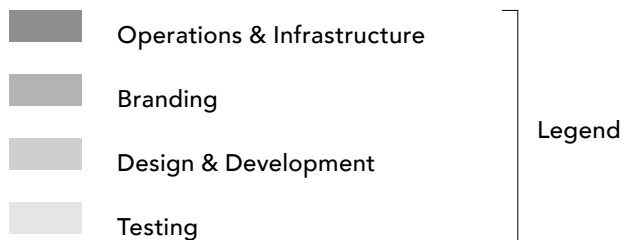
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# Planning: Phase 1 – Application integration and User Authentication

## Workstreams

<u>Architecture</u>	<u>Tenant Provision</u>	<u>Tenant Association</u>	<u>Custom Domains</u>		<u>SDLC Support</u>
<u>Provisioning</u>		<u>Provision a new Organization</u>	<u>User Migration</u>	<u>Provisioning Organization users</u>	<u>User Invite</u>
<u>Authentication</u>		<u>Universal Login</u>	<u>Username &amp; Password Authentication</u>	<u>Application Integration</u>	<u>Home Realm Discovery</u>
<u>Branding</u>			<u>Universal Login</u>	<u>Custom Domains</u>	<u>Login by Organization</u>
<u>Deployment Automation</u>					<u>Deployment</u>
<u>Quality Assurance</u>					
<u>Profile Management</u>					<u>Metadata</u>
<u>Authorization</u>					
<u>Logout</u>					
<u>Operations</u>					<u>Email Provider</u>
Milestone 1					

## Audience

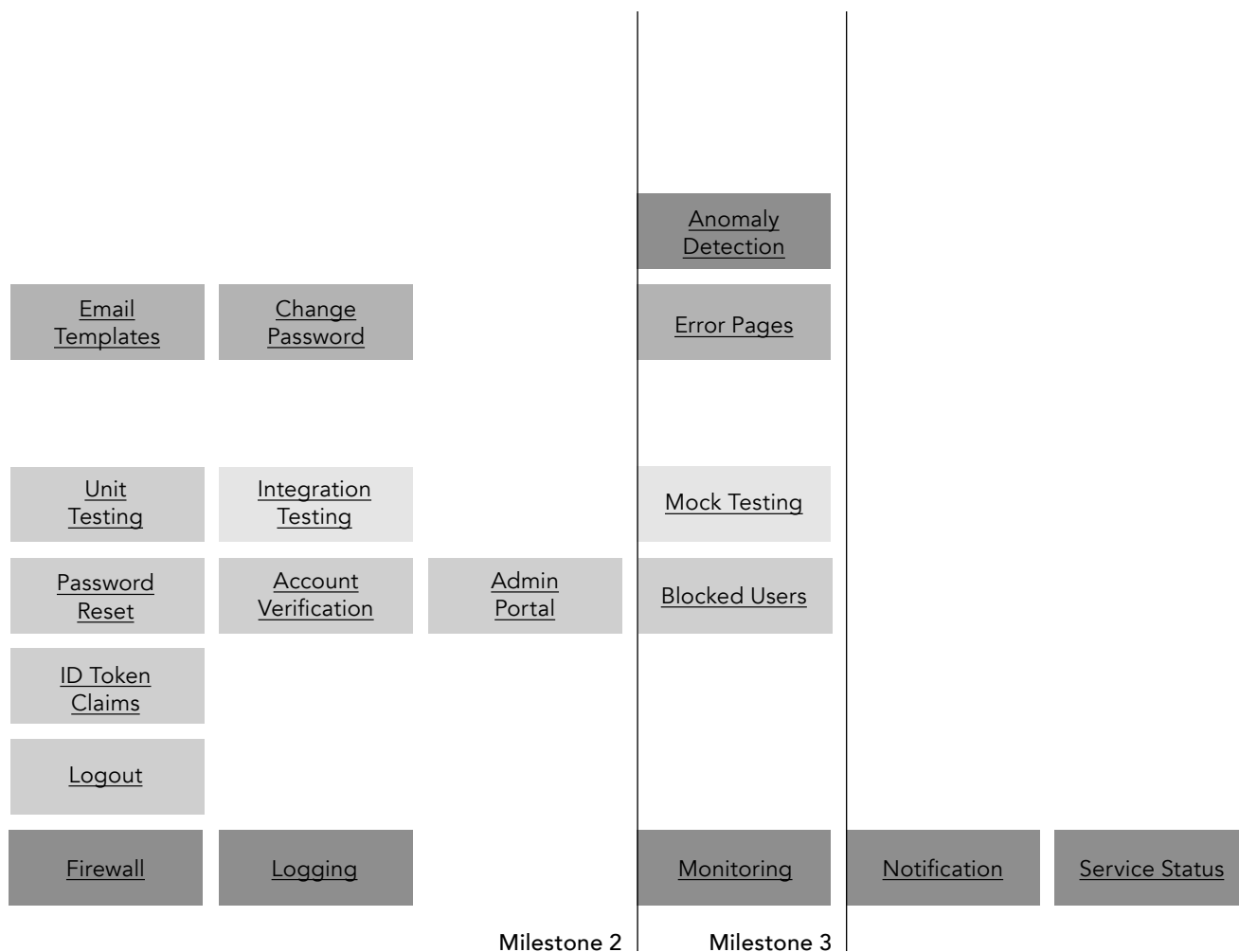


## Milestones

Milestone 1: Authentication  
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Milestone 2 : Demonstration to  
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Milestone 3: Go-Live Deployment to  
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As can be seen from the diagram above (click to navigate), at the end of Phase 1 you'll have working implementation that integrates with Auth0 to provide user Authentication across your application(s). This can be taken into production, or at the very least be provided as part of an early adopter or Beta program.

Phase 1 consists of a number of workstreams, with a number of topics in each. The workstreams, topics and the order in which you address each is important, so we recommend you follow the guidance prescribed. That's not to say you can't or shouldn't tackle work in parallel: Provisioning and Authentication, for example, could be tackled independently and at the same time, and these could both be tackled in parallel with your Branding efforts.

In most successful integration cases we've also found that different teams tackle different streams, and that this can provide significant benefit: your design and development team(s) would typically tackle implementation whilst at the same time your branding team would tackle Auth0 asset customization thus reducing overall time to market.

✓ **Architecture** is the first workstream you will cover, with **Tenant Provision** being the precursor topic to all others. Other topics to address at this stage include:

✓ **Custom Domains**,

✓ **Tenant Association**, and

✓ Support for the **Software Development Life Cycle** (SDLC)

✓ **Provisioning** is the next workstream, and this can be done in parallel with **Authentication**. We've found that the most successful implementations address the following topics at this stage during Phase 1, however precisely what you tackle will depend on your specific requirements - i.e. you

may not need User Migration for example, or you may already have an existing invite mechanism that can be leveraged :

- ✓ Provisioning a new Organization,
- ✓ User Migration,
- ✓ Provisioning Organization Users, and/or
- ✓ User Invite

The Auth0 **Dashboard** in conjunction with the **Delegated Administration** extension can be used out-of-box to provide for **user deprovisioning** (as well as provisioning). If you require more comprehensive deprovisioning functionality - say for compliance reasons - then refer to the Provisioning guidance provided in Phase 2.

- ✓ **Authentication** comes next and can be done in parallel with **Provisioning**. Topics to address at this point will include:

- ✓ Universal Login
- ✓ Username and Password Authentication,
- ✓ Application Integration,
- ✓ Home Realm Discovery, and
- ✓ Anomaly Detection

✓ **Branding** can be done in parallel with **Provisioning** & **Authentication**, and with most customers would typically be handled by their branding team. Topics to address here include:

✓ **Universal Login** page customization,

✓ Naming for your **Custom Domain**,

✓ **Login by Organization**,

✓ **Change Password** page customization,

✓ **Error Page** customization, and

✓ **Email Template** customization (though we recommend you follow **Operations** guidance before doing so).

By this point you will have completed major work required to integrate an application, will have addressed the most significant risk items, and will also be able to provide demonstrable functionality to stakeholders too. From here on in you'll be working towards production Go-Live. As you progress through the remaining workstreams and topics you can start to align your Auth0 tenants with your SDLC, and you'll be steadily and progressively reducing risk as you go. You'll also have the opportunity to demonstrate further functionality to stakeholders, which will also help you to garner feedback from the rest of the business:

✓ **Deployment Automation**. Up 'till now you'll most likely have been working with the one Auth0 development Tenant created as part of **Provisioning**. Auth0 tooling to automate deployment of assets will now allow you to utilize additional tenant provision in preparation for your testing effort and also your production release - providing you with stable environment(s) which can be used for both demonstration and evaluation.

- ✓ **Quality Assurance** mechanisms should now be employed to ensure any breakages due to defects or changes are detected early, and this is where Auth0 tenant provision for QA will be utilized.

Topics to address here include:

- ✓ **Unit testing**,

- ✓ **Mock testing** and

- ✓ **Integration testing**

- ✓ **Profile Management** will address the most common cases for the changes users will want to make to their profile. We've found the most successful implementations address the following topics at this point during Phase 1, however precisely what you tackle will depend on your specific requirements (i.e. you won't need to provide for metadata management if you're not utilizing user metadata):

- ✓ **Metadata** management,

- ✓ **Password Reset**,

- ✓ **Account Verification**,

- ✓ **Admin Portal**, and

- ✓ **Blocked Users**

- ✓ **Authorization**, at this stage, is for customers who have specific access control requirements, and the focus for Phase 1 will be centered on how custom **ID Token Claims** can be leveraged to support this.

- ✓ **Logout** comes next on the agenda. Eventually users will want to log out of your system and you'll need to decide exactly what this looks like. Auth0 supports several variations when it comes to user logout giving you flexibility to choose what works best for your implementation.
- ✓ **Operations** can be addressed in parallel, though we do recommend you setup your email provider early on, as this will enable you to minimize disruption moving forward as well as allow you to quality test specific functionality not possible with out-of-box email provision. Topics to cover here will include:
  - ✓ **Email Provider Setup**,
  - ✓ **Monitoring**,
  - ✓ **Logging**,
  - ✓ **Firewall** configuration, and
  - ✓ **Notifications**

Congratulations! Reaching this point you have integrated with Auth0 to provide user Authentication and are ready for Go-Live. If you've not already done so, you can align your Auth0 production tenant via **deployment automation** and run any final QA in preparation for production release. As you move forward you'll want to keep a watch for **Notifications** from Auth0, which may contain important information that could impact your tenant(s) and/or project(s) going forward.



## Phase 2

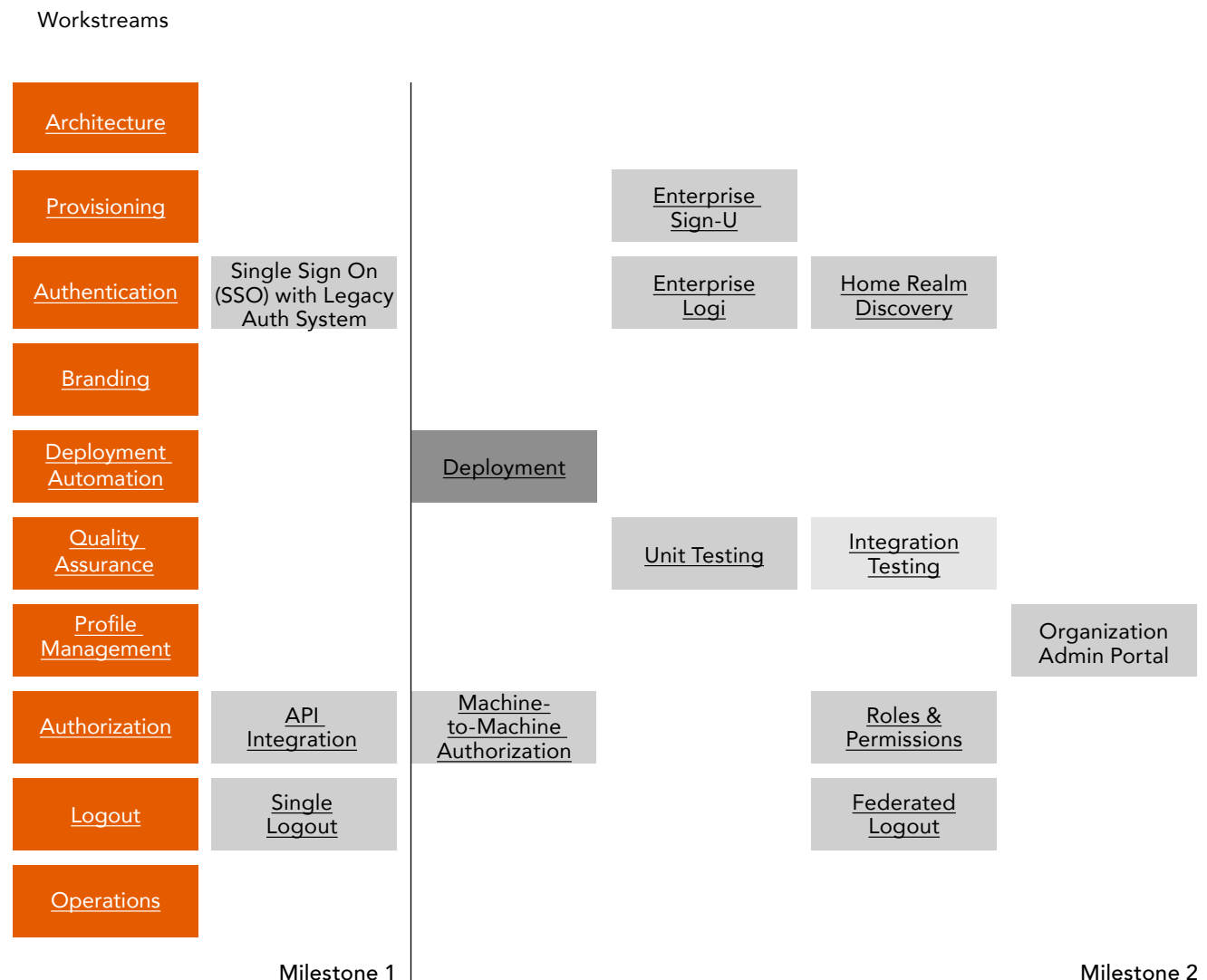
Phase 2 builds on the work conducted as part of **Phase 1**, and will primarily focus on integrating your API(s) with the Authorization capabilities provided by Auth0 and setting up enterprise federation; completing Phase 1 is a pre-cursor to Phase 2.

In Phase 2 you'll also address additional aspects of Authentication, Provisioning and Profile Management. Having completed Phase 1 activities as prescribed, Auth0 capabilities allow you to incorporate elements of advanced functionality in these areas, to provide enhanced capability in short order.

As with Phase 1, Phase 2 consists of a number of workstreams with a number of topics in each as illustrated in the diagram below (click to navigate). The workstreams, topics and the order in which you address each is important, so we recommend you follow the guidance prescribed. That's not to say you can't or shouldn't tackle work in parallel: Authorization and advanced Authentication, for example, could be tackled independently and at the same time, and these could both be tackled in parallel with your Branding or advanced Profile Management efforts.

The nature of Phase 2 means that work is less prescribed than in Phase 1. Unconnected topics such as API Integration and **Enterprise Login** can be tackled independently – or not at all. However, some of these do still have dependent relationships – Federated Logout for instance is something we would recommend only if you are considering any of the Enterprise connection flows.

# Planning: Phase 2 - API Authorization and advanced Authentication, Provisioning and Profile Management



## Audience

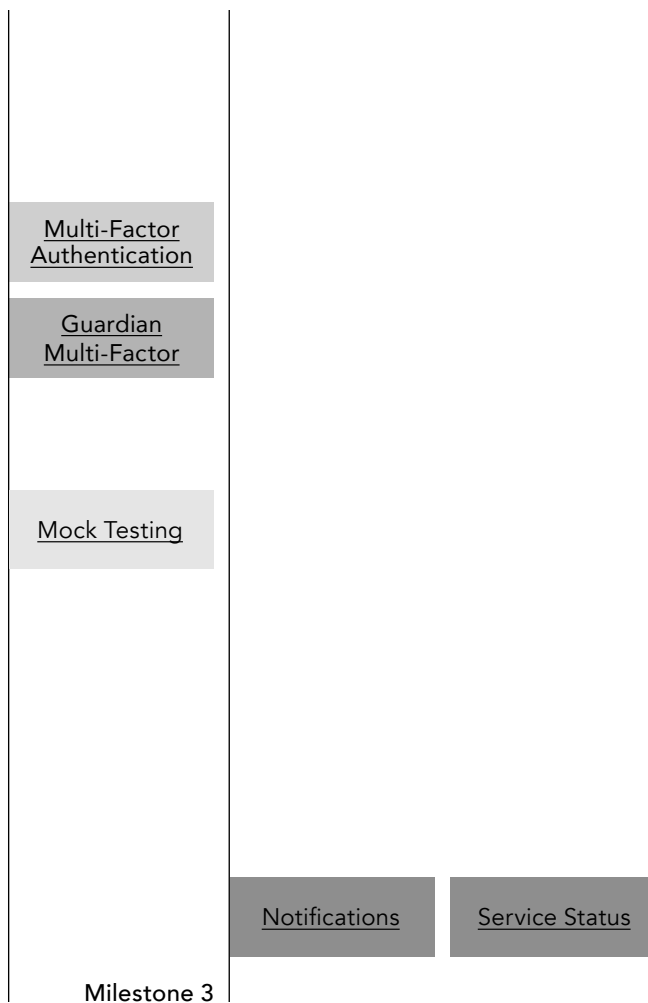


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Demonstration to stakeholders.

Milestone 2 : Demonstration to  
stakeholders.

Milestone 3: Go-Live  
Deployment to Production



Utilizing continuous integration established in Phase 1 (as part of **Deployment Automation**), Phase 2 work can be taken into production in an accelerated fashion - or at the very least be provided as part of an early adopter or Beta program.

In a fashion similar to Phase 1, the majority of successful integration cases in Phase 2 have found significant benefit from having different teams tackle different streams: your design and development team(s) would typically tackle implementation whilst at the same time your branding team would tackle Auth0 asset customization thus reducing overall time to market.

✓ **Authorization** is the first workstream you'll cover, with API Integration being the focus topic on the agenda. Auth0 supports the OAuth 2.0 protocol, the industry-standard for authorization, as a first class citizen and using the capabilities provided you can implement secure access to any Application Program Interfaces you supply. Topics include:

✓ **API Integration**,

✓ **Machine-to-Machine Authorization**, and

✓ **Roles & Permissions**

✓ Extending **Authentication** comes next, and can be done in parallel with both **Authorization** and **Deployment Automation** to provide advanced functionality to your Phase 1 implementation.

Topics to address at this point may include:

✓ SSO with the Legacy Auth System,

✓ **Enterprise Login**,

- ✓ **Home Realm Discovery** – consider whether you need to make changes once you add enterprise connections, and
- ✓ **Multi-factor authentication** - an industry recommendation in many cases
- ✓ **Deployment Automation** setup in Phase 1 can be used to automate deployment of assets, allowing you to utilize **SDLC supporting tenant provision** in preparation for your testing effort and also your production release - providing you with stable environment(s) which can also be used for both demonstration and evaluation.
- ✓ **Quality Assurance** mechanisms employed in Phase 1 can be used to ensure any breakages due to defects or changes are detected early, and this is where Auth0 tenant provision for QA will be utilized. Topics to address here include:
  - ✓ **Unit testing**,
  - ✓ **Mock testing** and
  - ✓ **Integration testing**
- ✓ **Provisioning** is the next workstream, and this can be done in parallel. During Phase 2, the only provisioning topic is related to Enterprise connections; however, precisely what you tackle will depend on your specific requirements - i.e. if you do not need Enterprise connections, you will have no need to implement that workflow:
  - ✓ **Enterprise Sign Up**

✓ **Profile Management** will address advanced use cases for changes to a user's profile. We've found the most successful implementations address the following topic at this point during Phase 2, however precisely what you tackle will depend on your specific requirements (i.e. you may skip this workstream in this phase if you are not providing a user administration interface to admins of your customers' organization):

✓ **Organization Admin Portal**

✓ **Branding** for MFA can be done in parallel with other work items, and with most customers would typically be handled by their branding team - though if you have no plans to support multi-factor authentication then there's no need to engage in **Guardian multi-factor** branding activities. However, as multi-factor is an industry recommendation in many cases, adding your brand is a recommended best practice at this time.

✓ With Logout we are adding some of the more complex options:

✓ **Single Logout**

✓ **Federated Logout**

Congratulations! Reaching this point you have integrated with Auth0 to provide API Authorization as well as advanced user Authentication, and are ready for Go-Live deployment to production (if you've not already done so via continuous integration). If you need to, now is the time to align your Auth0 production tenant via **deployment automation**, run any final QA in preparation for production release, and re-run your production check. As you move forward you'll want to keep a watch for **Notifications** from Auth0, which may contain important information that could impact your tenant(s) and/or project(s) going forward.

## Phase 3

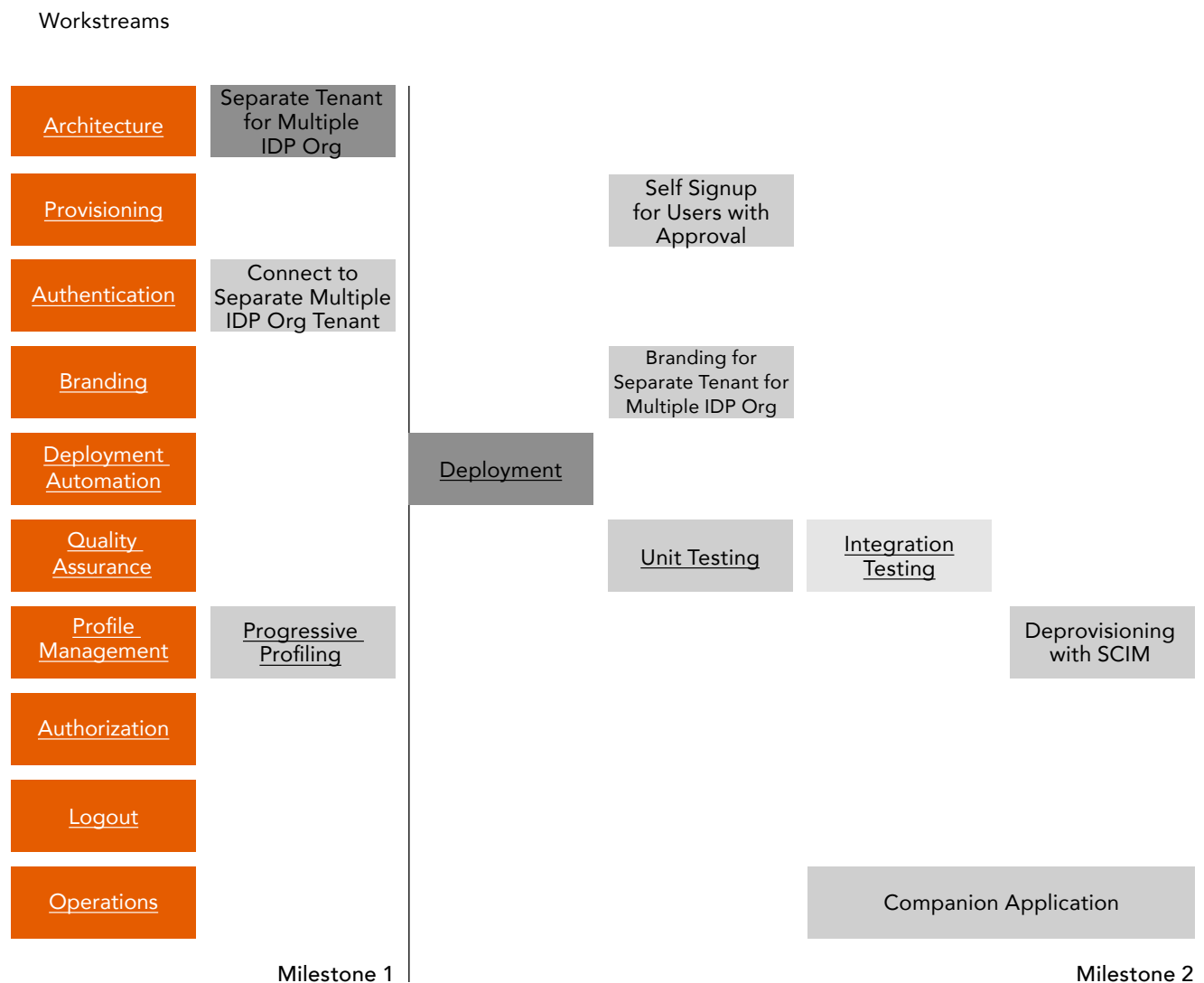
Phase 3 builds on the work conducted as part of Phase 2, and primarily deals with the more complex organizations that have more than one IDP for the individual organization. It also introduces some more specialized use cases – utilizing both standard out-of-box functionality, as well as specialized customization built using Auth0 out-of-box features. Phase 3 primarily focus on use cases which, though more specialized, we nevertheless see occur on a relatively frequent basis. Completing Phase 1 is a pre-cursor to Phase 3, though Phase 2 need not necessarily be a phase on which Phase 3 is predicated.

Utilizing Continuous Integration established in Phase 1 (as part of Deployment Automation), Phase 3 work can be taken into production in an accelerated fashion similar to Phase 2 - or at the very least be provided as part of an early adopter or Beta program. The diagram below (click to navigate) describes each of the Phase 3 workstreams with a number of topics in each.

In Phase 3, as in Phase 1 and Phase 2, there are a number of workstreams with a number of topics in each. The workstreams, topics and the order in which you address each is important, so we recommend you follow the guidance prescribed. That's not to say you can't or shouldn't tackle work in parallel: Progressive Profiling, for example, could be tackled independently and at the same time as Step-up Authentication.

Of all the phases, Phase 3 is the least prescribed: there are a variety of unconnected work stream topics which can be tackled independently – or not at all.

# Planning: Phase 3 – Extended use cases for Authentication, Profile Management and Operations support





## Audience

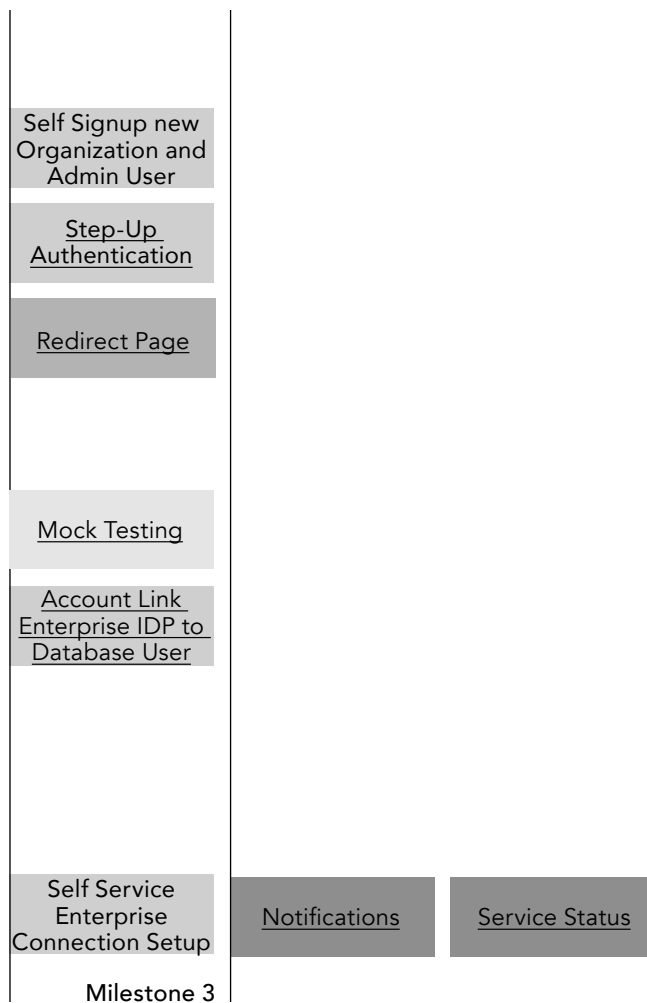


## Milestones

Milestone 1: Authentication  
Demonstration to stakeholders.

Milestone 2 : Demonstration to  
stakeholders.

Milestone 3: Go-Live  
Deployment to Production



Again, as with Phase 1 and Phase 2, in the majority of successful integration cases we've found that different teams tackle different streams, and that this can provide significant benefit: your design and development team(s) would typically tackle implementation whilst at the same time your branding team would tackle Auth0 asset customization thus reducing overall time to market.

- ✓ With Phase 3 and the complex organizations that have multiple IDP's, we need to discuss the concept of creating a separate Auth0 tenant for these organizations in Separate Tenant for Multiple IDP Org.
- ✓ In the **Authentication** workstream, we tackle the following items:
  - ✓ Connect to Separate Multiple IDP Org Tenant, and
  - ✓ Step-up Authentication
- ✓ In **Profile Management**, topics such as Progressive Profiling enable a rich user experience, whilst at the same time reducing user frustration by removing the need for extensive registration forms. Here are the topics we will address in profile management:
  - ✓ Progressive Profiling,
  - ✓ Deprovisioning with SCIM, and
  - ✓ **Account Link Enterprise IDP to Database User**
- ✓ **Branding** in phase 3 will cover customization of branding for specific organizations that have their own tenant and branding redirect pages:
  - ✓ Branding for Separate Tenant for Multiple IDP Org, and

## ✓ Redirect Pages

- ✓ In **Provisioning** we start to look at some of the more complex provisioning for multi-tenant applications such as:
  - ✓ Self Signup for Users with Approval, and
  - ✓ Self-Signup new Organization and Admin User
- ✓ Providing a Companion Application (via specialized customization) can, in many cases, be a good secure alternative for use cases involving Impersonation – i.e. in cases where your support team(s) need to perform actions on behalf of a customer as part of your **Operations** infrastructure. You may also want to build out a Self Service Enterprise Connection Setup application for organizations to self-administer their own connection to their IDP.

Congratulations! Reaching this point you have integrated with Auth0 to support extended use cases and are ready for Go-Live deployment to production (if you've not already done so via continuous integration). If you need to, now is the time to align your Auth0 production tenant via **deployment automation**, run any final **QA** in preparation for production release, and re-run your production check. As you move forward you'll want to keep a watch for **Notifications** from Auth0, which may contain important information that could impact your tenant(s) and/or project(s) going forward.

The guidance provided describes our recommended strategy for integrating Auth0 in a B2B IAM project The guidance provided will be updated from time to time, and we recommend you check with our **scenario guidance** as you progress. If you require more detailed guidance regarding specific functionality and/or specific use case scenarios then we recommend you engage with the **Professional Services** team here at Auth0.

As some of this guidance is still being written, we have some more detailed documentation for [\*\*B2B Multiple Organization Architecture \(Multitenancy\)\*\*](#) that you can use to help decide how to approach the topics that address applications that are tailored to each organization they serve.

## Resources

Identity evolves quickly. Please refer to these links for the most up-to-date guidance.

### CIAM / B2C IAM Cookbook

✓ [CIAM Planning Guide](#)

✓ [CIAM \(B2C\) Introduction](#)

### B2B IAM Cookbook

✓ [B2B IAM Planning Guide](#)

✓ [B2B IAM Introduction](#)

### Implementation

✓ [Implementation Checklists](#)