

# Cross Cloud Authentication

Citrix University Summary Campus  
Project

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## Project Introduction -- Cross Cloud Authentication

Here we try to launch a project that is in the cloud computer area that many of you are interested. Further more, it is related authentication that is a crucial part in cloud computing.

The major goal here is to establish a service/server that can help us cross authenticate users/groups that is from other cloud platform, say like from Azure.



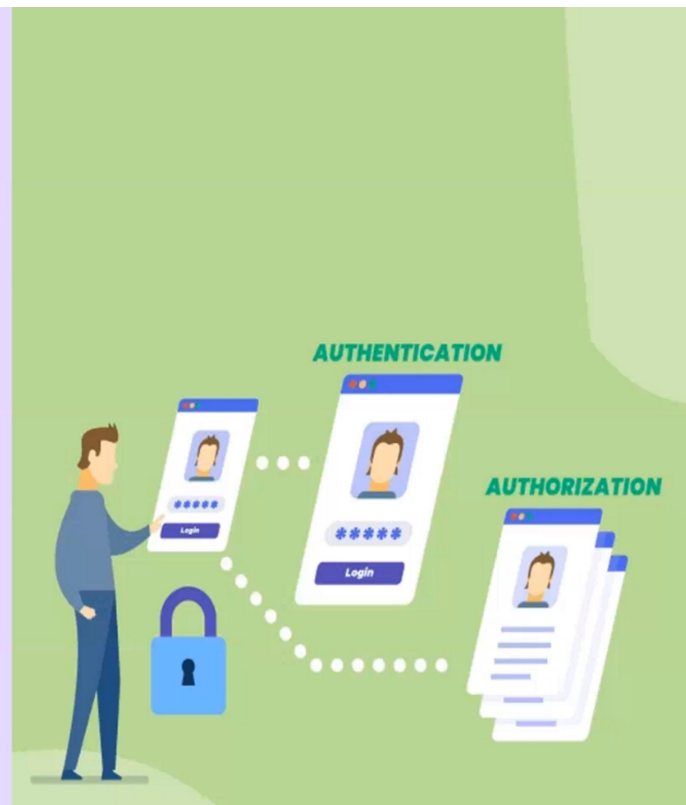
## User Scenario

Consider user logon with us Citrix, and we are running application from Azure, we have the user information and kind of credential that is register with us. However, if user have registration and resources or from other cloud platform, then if we can help to access that, it will definitely help to provide a better and complete user experience. In that process, we will need to “authenticate” user with other platform.

A more concrete example is if some customer has some infrastructure already established in AWS, say a couple of machines and some users and user groups, using AWS managed AD. They want to use Citrix Virtual Desktop, but maintains their current established user/groups. So we will enable the logon Citrix user to use our facilities but only authenticated in their AD service from AWS.

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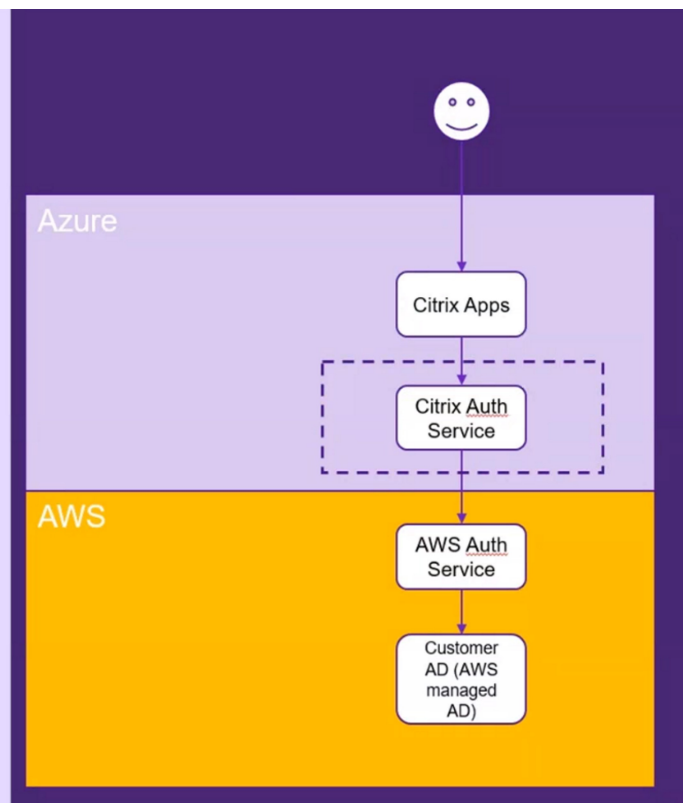
## Major Workflow

A logic workflow will be when user accesses Citrix Apps, and is intended to use their registration with AWS. The apps will launch request to the internal Citrix Auth service, with the external auth request. The auth service will try to forward the auth request to AWS part, and in return get response (auth succeed or fail) and with corresponding data (some token if succeeded, and possible more user/group attributes). Auth service will then respond back to apps with the external auth result, and With the authentication succeeds, the apps will proceed to provide our service to user.

So in our story here, the major work will be enable the auth service of auth path to some external cloud platform, like AWS or GCP. The implementation is not limited to AWS or GCP, so choose what is familiar and accessible to you. The apps can be mocked with some simple GUI, do not waste much time on that, do what is sufficient to present the auth workflow and result.

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The key code is the auth workflow, and auth service

## Reference

You can use whatever to build the authentication service. Not limited to some language or project or architecture.

However, there are some existing open source auth service to be referred to, or even be used as base, such as identityserver (<https://github.com/IdentityServer/IdentityServer4>). You can build the service based on that, involving AWS or GCP auth interface definition.

There should be some free/trial account usable from other cloud platform that provides the target service/interface. But if it is necessary to use some none free service/resource, we can provide help.

