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# EzIdentity™ Pre-Requisites

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## 1 Summary

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## 2 Preface

This preface includes the following sections:

- [Audience](#)  
This document is intended for users of EzIdentity.
- [Documentation Accessibility](#)  
Ezmcom customers that have purchased support have access to electronic support through My Ezmcom Support Website.
- [Conventions](#)

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<b>monospace</b>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

### 3 Integration Overview

- EZMCOM server will be install on premise.
- Active Directory, LAP or Database must be available to get the user details.
- All Network Devices (juniper, Citrix, Checkpoint, F5, TMG, Linux Server, UNIX server etc...) will integrate using RADIUS Protocol to authenticate from EZMCOM server.
- All Windows, MAC PC will use EZMCOM agent to authenticate from EZMCOM server.
- All Cloud service will use ADFS to with EZMCOM ADFS agent to authenticate from EZMCOM server.
- All On-Premises Web Application (Exchange OWA, SharePoint, IBM Webmail etc...) will use EZMCOM agent to authenticate from EZMCOM server.

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## 4 Hardware & Software Requirement

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### 4.1 Minimum Hardware requirement

#### 4.1.1 Application Server (EzIdentity™) per server.

- CPU: 1 x 2 core x Intel® Xeon® 2.5 GHz and above.
- RAM: 8GB
- HDD: 50 GB
  - i. /opt – 20 GB
- NIC: 1 Gbps speed

#### 4.1.2 Database Server (Oracle or MySQL or MSSQL)

- CPU: 1 x 4 core x Intel® Xeon® 2.5 GHz and above.
- RAM: 16 GB
- HDD: 50 GB

**NOTE:** Client can provide available database according to the number of user.

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### 4.2 Minimum Software Requirement

#### 4.2.1 Application Server (EzIdentity™) per server.

- Linux with Kernel 2.5.x or above (Red Hat compatible).

#### 4.2.2 Database Server.

- Oracle: 11G and above.
- MySQL: 5.1 and above.

**NOTE: These are minimal requirement depending upon the client sizing and load the requirement will be suggested. Please contact EZMCOM support team (support.global@ezmcom.com) for more details.**

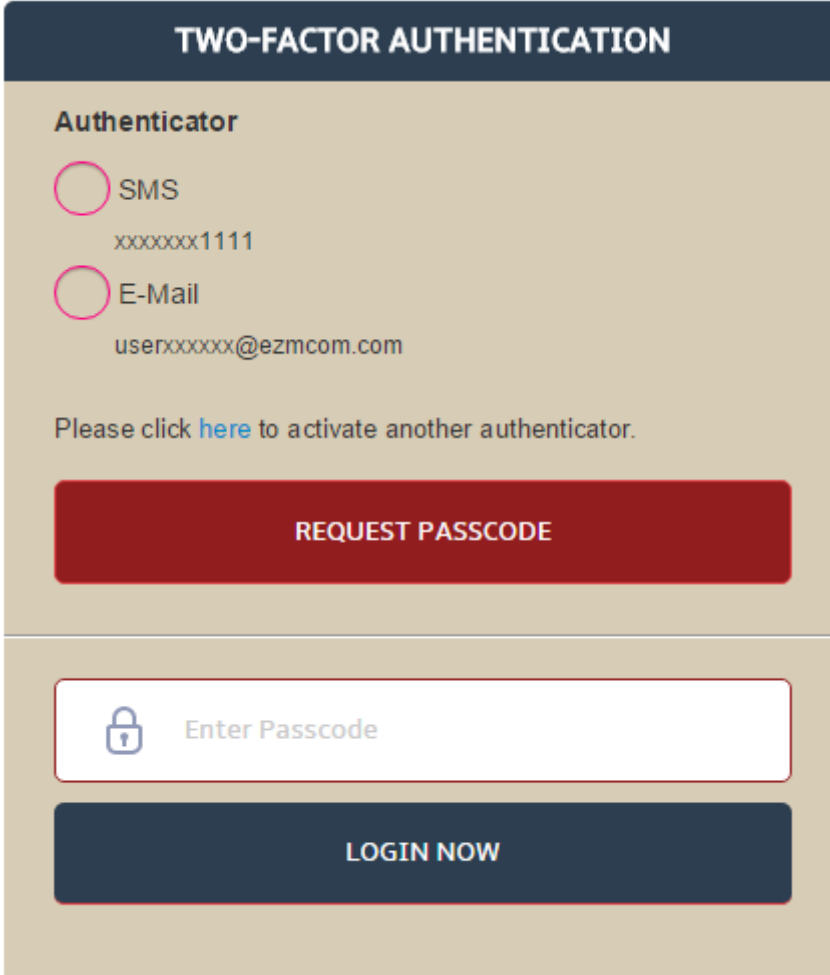
## 5 Iframe Pre-Requisites.

- Domain Name to publish iframe.
- Valid SSL certificate to publish iframe.
- NAT internally to publish iframe.

Iframe is used on various integration to shows user a second page with various 2FA authentication options like (send Push authentication, send OTP via email, send OTP via SMS, send OTP via IVR and Mobile token activation.) There will be option to enter OTP from Mobile token or Hardware token as well.

A sample page about the iframe is as below.

Figure 1. 2FA page with multiple option.



**TWO-FACTOR AUTHENTICATION**

**Authenticator**

SMS  
xxxxxxx1111

E-Mail  
userxxxxxx@ezmcom.com

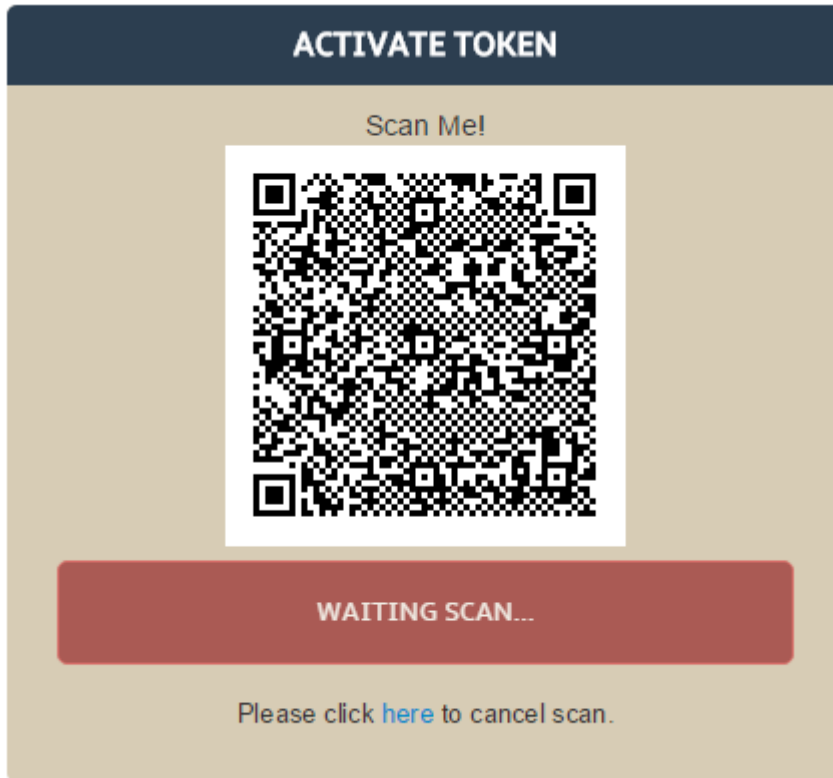
Please click [here](#) to activate another authenticator.

**REQUEST PASSCODE**

Enter Passcode

**LOGIN NOW**

Figure 2. Mobile Token Activation.





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## 6 OOB Token Integration pre-requisites.

There are three basic channel for OOB (Out-Of-Band) token SMS, Email & IVR.

Below are the pre-requisites for each channel.

- **SMS:** SMS gateway provider has their own REST/SOAP APIs details to send SMS. Depending upon the SMS gateway provider at client side EZMCOM can develop SMS gateway adapter plugin to integrate with EZMCOM server.

Client must share the SMS gateway Provider APIs document so that EZMCOM team can develop SMS adapter at the time of deployment.

Minimum 7 working days will be required for the SMS gateway adapter development depending upon the APIs details.

*EZMCOM also provide its cloud SMS gateway which is not included in the standard implementation package and client has to contact with EZMCOM's sales team for further details.*

- **Email:** Below parameter required for SMTP (Email) integration.

- Email SMTP SSL: [Enable/Disable]
- Email SMTP Host\* :
- Email SMTP Port\* :
- Email SMTP User :
- Email SMTP Password :
- Email From Name\* :
- Email From Address\* :

**NOTE:** All \* are mandatory fields and must be provide.

- **IVR:** IVR provider has their own REST/SOAP APIs details to send IVR call. Depending upon the provider at client side EZMCOM can develop IVR adapter plugin to integrate with EZMCOM server.

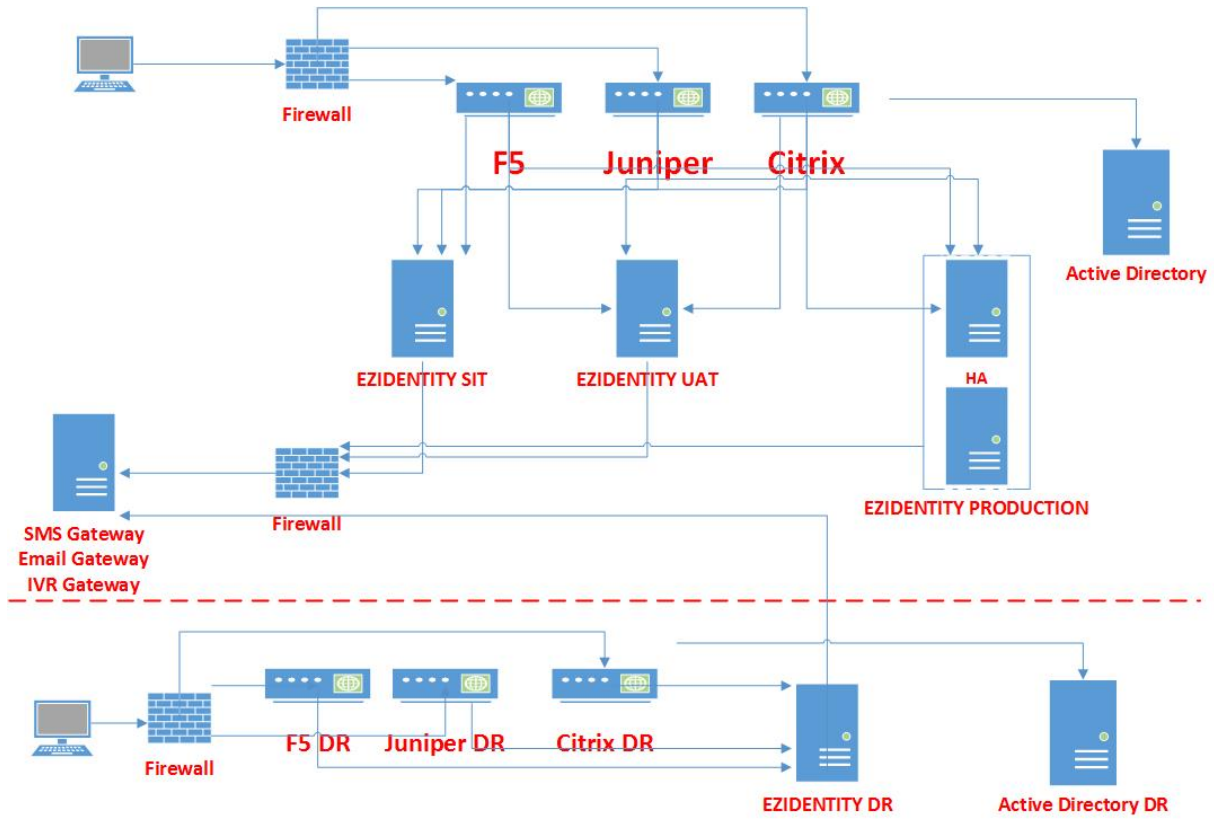
Client must share the IVR Provider APIs document so that EZMCOM team can develop IVR adapter at the time of deployment.

Minimum 7 working days will be required for the IVR adapter development depending upon the APIs details.

*EZMCOM also provide its cloud IVR which is not included in the standard implementation package and client has to contact with EZMCOM's sales team for further details*

## 7 Architecture Diagram

Figure 3. Proposed Architecture Diagram



## 8 Pre-requisites Firewall rules

Source	Destination	Port	Protocol	Description
Network devices, Linux (All devices those will support RADIUS protocol for authentication)	EZMCOM Server	1812 & 1813	UDP	RADIUS port
Web Application (Exchange OWA, SharePoint, IBM Webmail etc...)	EZMCOM Server	443	TCP	Web-Service call from EZMCOM agent.
Internet	EZMCOM Server	443	TCP	Iframe 2FA page
EZMCOM Server	Active Directory	389, 636	TCP	AD User Store.
EZMCOM Server	SMS Gateway	Filled Client By	Filled Client By	
EZMCOM Server	Email Gateway	Filled Client By	Filled Client By	
EZMCOM Server	sns.us-east-1.amazonaws.com sns.us-west-1.amazonaws.com sns.us-west-2.amazonaws.com sns.eu-west-1.amazonaws.com sns.eu-central-1.amazonaws.com sns.ap-northeast-1.amazonaws.com sns.ap-northeast-2.amazonaws.com sns.ap-southeast-1.amazonaws.com sns.ap-southeast-2.amazonaws.com sns.ap-south-1.amazonaws.com sns.sa-east-1.amazonaws.com	443	TCP	PUSH service sns.*.amazonaws.com is mention please get list of IP address for all.  us-east-1 [US East (N. Virginia)]  us-west-1 [US West (N. California)]  us-west-2 [US West (Oregon)]  eu-west-1 [EU Ireland]]  eu-central-1 [EU (Frankfurt)]

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