



Striving for Excellence



Cloud Migration Use case

Infrastructure Setup Options

There are 2 Options for setting up Infrastructure for KhabarE portal:

1. Cloud Server option
2. On Premise Server option

Cloud	
CONS:	PROS:
Software and the associated corporate data are not on-premise	Access your information anywhere & anytime (centrally manage the data collected)
	Subscription-based payments (allows you to pay less when you start and pay-as-you-go)
	Scale at your own pace
	Software updates & modify licenses remotely
	Real consumption info (in real time)
	Service uptime guarantee
	Constant & reliable integration maintenance
	High-level of security
	Manageability through the cloud
	Little to no technical skills required (reduce staff)

OnPremise	
CONS:	PROS:
High up-front costs which include on-premise software & hardware installation and configuration	Complete control over your IT infrastructure
Manageable only by going on site	
Expensive and time-consuming updates, maintenance and on-site troubleshoots	
Technical skills required	
Limited access & potential operations issues	
Problems with scalability due to limited infrastructure	
Potential for unprecedented downtime	

Infrastructure Cost Comparison

Cloud Option is cheaper and better: 28.5 lakhs INR saved in 1st year ,17.4 lakhs in 2nd yr.
All amounts are in INR currency

Year #	Yearly Savings Due to Cloud Option
1	28,53,484
2	17,42,444
3	18,87,404

Year #	# of UV/yr	Cloud Option Server Cost	Cloud Data Cost	Infra Support Cost	TCO
1	1000000	6,98,996	47520	0	7,46,516
2	3000000	6,98,996	142560	0	8,41,556
3	5000000	6,98,996	237600	0	9,36,596
Year #	# of UV/yr	OnPremise Server Cost	On Premise Data Cost	Support Cost	TCO
1	1000000	15,20,000	4,80,000	16,00,000	36,00,000
2	3000000	2,64,000	7,20,000	16,00,000	25,84,000
3	5000000	2,64,000	9,60,000	16,00,000	28,24,000

Configuration:			
Production	3 windows servers	2 SQL Server	2 File servers
Test	1 windows server	1 SQL Server	
	* File server will be required only for on premise		

Infrastructure Management Process

Infrastructure Setup: we'll setup 2 environments Test and production.

Test will be used for development and test job while

Production will be for actual runtime for end users of the portal

Following configuration approach is what we would take for the 2 environments to be used as Test and Production:

Configuration:			
Production	3 windows servers	2 SQL Server	2 File servers
Test	1 windows server	1 SQL Server	
* File server will be required only for on premise			

Deployment process: we'll start deployment with Test environment and once the latest code passes the acceptance test we initiate the process to do deployment in production.

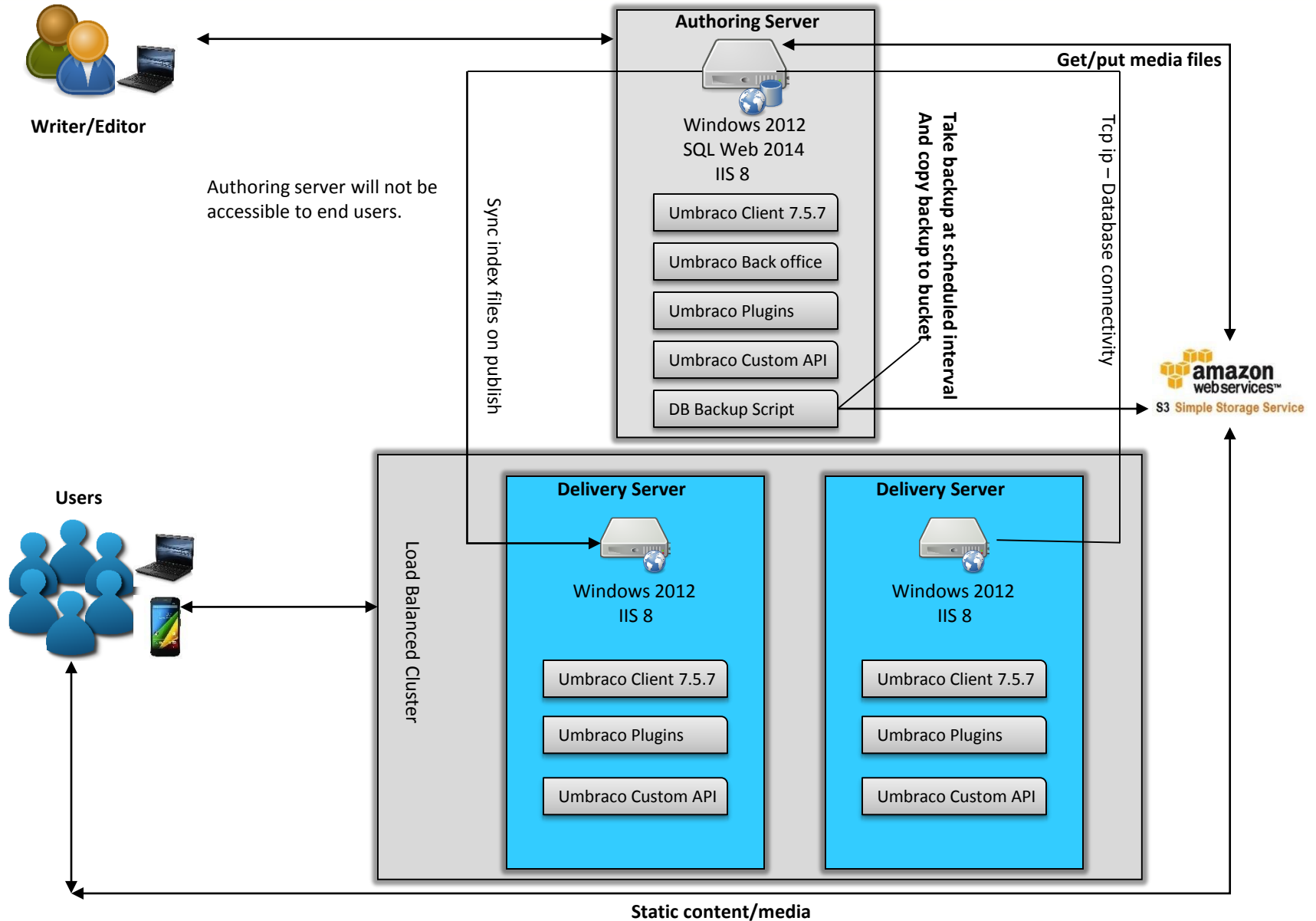
Timing of production deployment would be done when we expect least traffic to minimize any potential disruption and we would try to accomplish 24x7 availability as much possible. IIS and SQL Server itself provide the deployment tools to accomplish it.

On windows On-Premise server, often we need to add security patch-up in case of updates required by Microsoft.

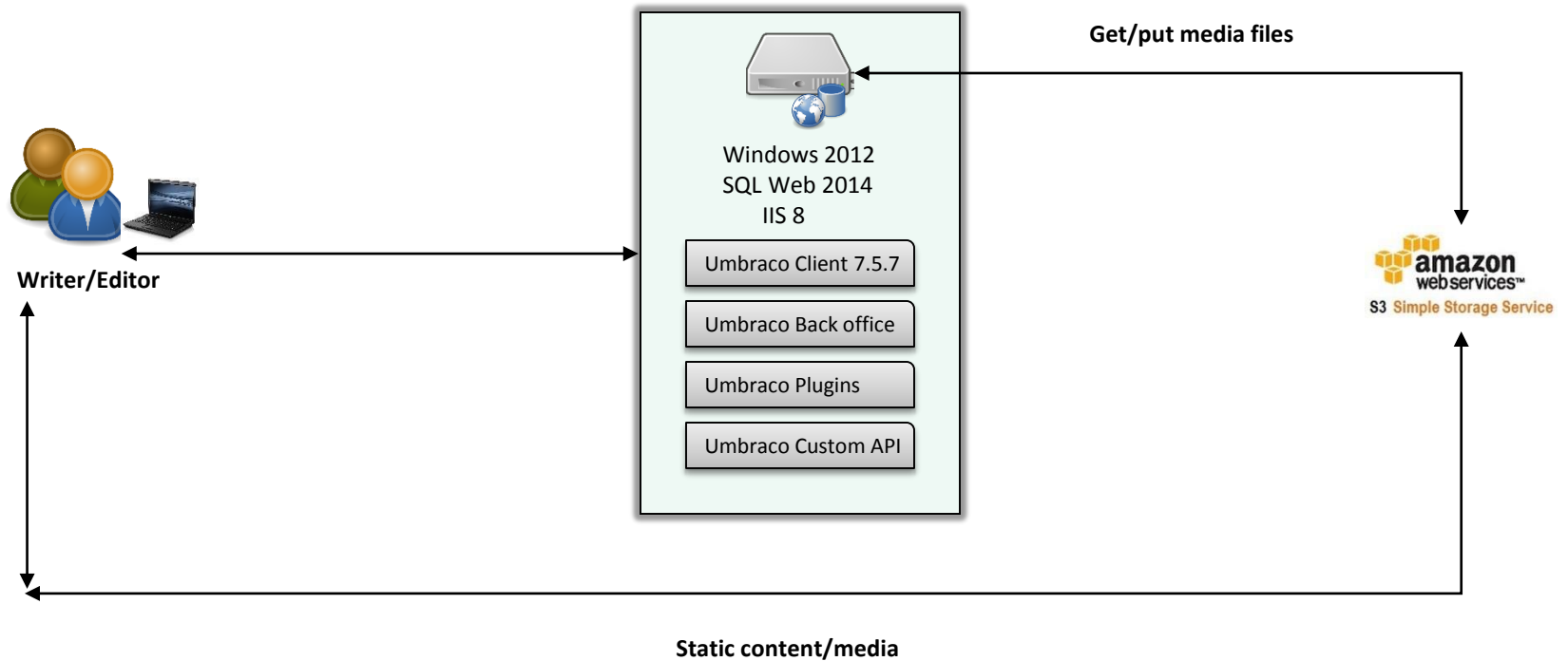
Backup Process : Automated backup script is setup which would run automatically at pre-defined time and pre-defined interval to keep the backup of production server and data on file server.

In case of server issue these backup files can be used to restore the system to the time when last backup was taken.

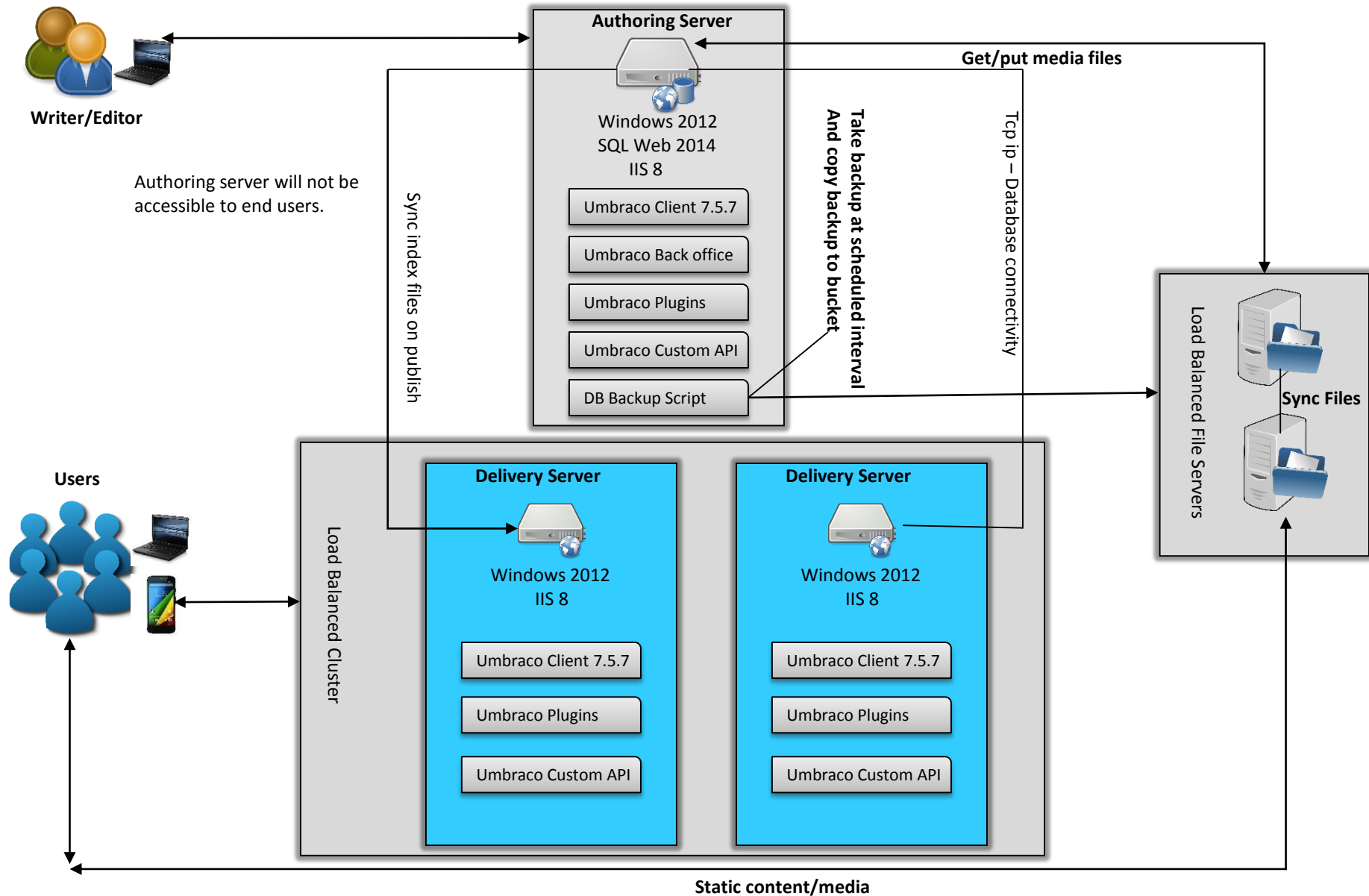
Production Architecture (Cloud)



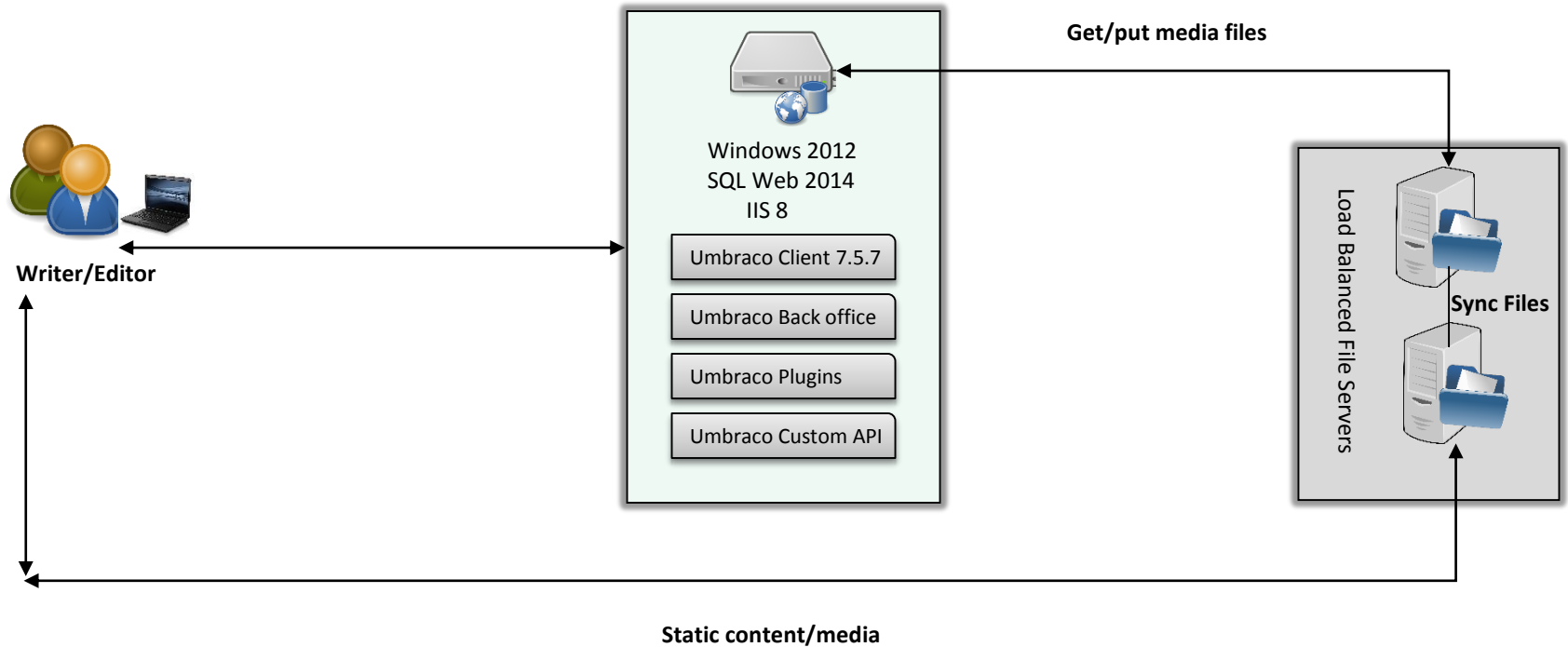
Pre Production Architecture (Cloud)



Production Architecture (On-Premise)



Pre Production Architecture (On-Premise)





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Thank You