

CCC Systemwide Architecture Committee - Cloud Backup Survey



1. Person Responding to this Survey

		Response Percent	Response Count
Name:	<input type="text"/>	100.0%	25
College or District	<input type="text"/>	100.0%	25
Email Address:	<input type="text"/>	100.0%	25
		answered question	25
		skipped question	0

2. Current Backup characteristics across the various areas on your campus.

Current Backup Method

	Disk to Disk	Tape	Both (DtdD+Tape)	Cloud	Other
Computing Services	22.7% (5)	40.9% (9)	31.8% (7)	4.5% (1)	0.0% (0)
Telecommunications	30.0% (6)	25.0% (5)	30.0% (6)	0.0% (0)	5.0% (1)
Emergency Services	26.3% (5)	15.8% (3)	15.8% (3)	0.0% (0)	0.0% (0)
Network Services	36.8% (7)	15.8% (3)	31.6% (6)	0.0% (0)	5.3% (1)
Facilities	11.1% (2)	27.8% (5)	27.8% (5)	0.0% (0)	5.6% (1)
File and Print Services	28.6% (6)	33.3% (7)	28.6% (6)	0.0% (0)	0.0% (0)
ERP	8.7% (2)	21.7% (5)	47.8% (11)	13.0% (3)	0.0% (0)
Email	30.4% (7)	21.7% (5)	34.8% (8)	13.0% (3)	0.0% (0)
Web Services	36.4% (8)	22.7% (5)	31.8% (7)	0.0% (0)	0.0% (0)
Library	19.0% (4)	28.6% (6)	19.0% (4)	9.5% (2)	0.0% (0)
Instructional Technology Classrooms	15.8% (3)	21.1% (4)	15.8% (3)	0.0% (0)	0.0% (0)
Learning Management System	4.8% (1)	19.0% (4)	23.8% (5)	14.3% (3)	4.8% (1)
Desktop Backup	10.5% (2)	15.8% (3)	10.5% (2)	0.0% (0)	0.0% (0)
Other	10.0% (1)	0.0% (0)	10.0% (1)	10.0% (1)	0.0% (0)

Estimated Amount of Data Currently Backed Up

	0 - 10GB	11GB - 50GB	51GB - 250GB	251GB - 1TB
Computing Services	22.7% (5)	13.6% (3)	9.1% (2)	18.2% (4)
Telecommunications	61.1% (11)	16.7% (3)	16.7% (3)	0.0% (0)
Emergency Services	78.6% (11)	14.3% (2)	0.0% (0)	7.1% (1)
Network Services	33.3% (6)	38.9% (7)	11.1% (2)	5.6% (1)

Facilities	69.2% (9)	15.4% (2)	7.7% (1)	7.7% (1)
File and Print Services	15.0% (3)	5.0% (1)	10.0% (2)	25.0% (5)
ERP	9.1% (2)	9.1% (2)	18.2% (4)	27.3% (6)
Email	0.0% (0)	9.1% (2)	22.7% (5)	40.9% (9)
Web Services	20.0% (4)	35.0% (7)	15.0% (3)	15.0% (3)
Library	41.2% (7)	29.4% (5)	5.9% (1)	17.6% (3)
Instructional Technology Classrooms	50.0% (7)	0.0% (0)	21.4% (3)	14.3% (2)
Learning Management System	35.7% (5)	0.0% (0)	28.6% (4)	28.6% (4)
Desktop Backup	40.0% (4)	10.0% (1)	10.0% (1)	20.0% (2)
Other	60.0% (3)	0.0% (0)	20.0% (1)	0.0% (0)

Projected Annual Growth

	< 0%	0%	5%	10%	25%	50%	100%
Computing Services	4.8% (1)	0.0% (0)	42.9% (9)	42.9% (9)	9.5% (2)	0.0% (0)	0.0% (0)
Telecommunications	5.9% (1)	23.5% (4)	47.1% (8)	23.5% (4)	0.0% (0)	0.0% (0)	0.0% (0)
Emergency Services	14.3% (2)	21.4% (3)	50.0% (7)	14.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)
Network Services	5.9% (1)	5.9% (1)	52.9% (9)	35.3% (6)	0.0% (0)	0.0% (0)	0.0% (0)
Facilities	16.7% (2)	8.3% (1)	66.7% (8)	0.0% (0)	8.3% (1)	0.0% (0)	0.0% (0)
File and Print Services	5.0% (1)	10.0% (2)	20.0% (4)	40.0% (8)	20.0% (4)	5.0% (1)	0.0% (0)
ERP	0.0% (0)	9.1% (2)	27.3% (6)	40.9% (9)	22.7% (5)	0.0% (0)	0.0% (0)
Email	0.0% (0)	5.0% (1)	35.0% (7)	25.0% (5)	35.0% (7)	0.0% (0)	0.0% (0)
Web Services	0.0% (0)	5.0% (1)	45.0% (9)	40.0% (8)	10.0% (2)	0.0% (0)	0.0% (0)
Library	11.8% (2)	17.6% (3)	47.1% (8)	23.5% (4)	0.0% (0)	0.0% (0)	0.0% (0)
Instructional Technology Classrooms	28.6% (4)	28.6% (4)	28.6% (4)	7.1% (1)	7.1% (1)	0.0% (0)	0.0% (0)

Learning Management System	12.5% (2)	6.3% (1)	37.5% (6)	18.8% (3)	18.8% (3)	0.0% (0)	6.3% (1)
Desktop Backup	33.3% (3)	22.2% (2)	11.1% (1)	33.3% (3)	0.0% (0)	0.0% (0)	0.0% (0)
Other	16.7% (1)	50.0% (3)	16.7% (1)	16.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)

3. Please indicate the need for Cloud Backup across the various areas on your campus.

Reason for Cloud Backup

	Replace Current Methods	Backup Off Site	Not Needed	Requires Encryption
Computing Services	15.0% (3)	70.0% (14)	15.0% (3)	
Telecommunications	15.8% (3)	57.9% (11)	26.3% (5)	
Emergency Services	17.6% (3)	41.2% (7)	41.2% (7)	
Network Services	33.3% (6)	44.4% (8)	22.2% (4)	
Facilities	6.3% (1)	43.8% (7)	50.0% (8)	
File and Print Services	25.0% (5)	50.0% (10)	25.0% (5)	
ERP	13.6% (3)	77.3% (17)	9.1% (2)	
Email	21.7% (5)	56.5% (13)	21.7% (5)	
Web Services	19.0% (4)	61.9% (13)	19.0% (4)	
Library	11.1% (2)	44.4% (8)	44.4% (8)	
Instructional Technology Classrooms	12.5% (2)	18.8% (3)	68.8% (11)	
Learning Management System	5.6% (1)	38.9% (7)	55.6% (10)	
Desktop Backup	18.8% (3)	18.8% (3)	62.5% (10)	
Other	0.0% (0)	28.6% (2)	71.4% (5)	

Requires Encryption

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	Yes	No	Re: C
Computing Services	63.2% (12)	36.8% (7)	
Telecommunications	62.5% (10)	37.5% (6)	
Emergency Services	66.7% (8)	33.3% (4)	
Network Services	75.0% (12)	25.0% (4)	
Facilities	30.0% (3)	70.0% (7)	
File and Print Services	100.0% (16)	0.0% (0)	
ERP	95.5% (21)	4.5% (1)	
Email	90.0% (18)	10.0% (2)	
Web Services	76.5% (13)	23.5% (4)	
Library	38.5% (5)	61.5% (8)	
Instructional Technology Classrooms	33.3% (3)	66.7% (6)	
Learning Management System	41.7% (5)	58.3% (7)	
Desktop Backup	33.3% (3)	66.7% (6)	
Other	33.3% (2)	66.7% (4)	

Requires Compliance (PCI, etc.)

	Yes	No	Re: C
Computing Services	35.3% (6)	64.7% (11)	
Telecommunications	30.8% (4)	69.2% (9)	
Emergency Services	18.2% (2)	81.8% (9)	
Network Services	30.8% (4)	69.2% (9)	
Facilities	11.1% (1)	88.9% (8)	
File and Print Services	42.9% (6)	57.1% (8)	
ERP	65.0% (13)	35.0% (7)	

Email	52.6% (10)	47.4% (9)
Web Services	37.5% (6)	62.5% (10)
Library	18.2% (2)	81.8% (9)
Instructional Technology Classrooms	25.0% (2)	75.0% (6)
Learning Management System	25.0% (3)	75.0% (9)
Desktop Backup	14.3% (1)	85.7% (6)
Other	0.0% (0)	100.0% (5)

Requires Redundant Backup Sites

	Yes	No	Res C
Computing Services	35.3% (6)	64.7% (11)	
Telecommunications	40.0% (6)	60.0% (9)	
Emergency Services	53.8% (7)	46.2% (6)	
Network Services	42.9% (6)	57.1% (8)	
Facilities	30.0% (3)	70.0% (7)	
File and Print Services	42.9% (6)	57.1% (8)	
ERP	60.0% (12)	40.0% (8)	
Email	44.4% (8)	55.6% (10)	
Web Services	46.7% (7)	53.3% (8)	
Library	38.5% (5)	61.5% (8)	
Instructional Technology Classrooms	22.2% (2)	77.8% (7)	
Learning Management System	23.1% (3)	76.9% (10)	
Desktop Backup	25.0% (2)	75.0% (6)	
Other	28.6% (2)	71.4% (5)	

Recovery Time Objective

	Real Time	Hours	Days	Weeks	Months	Recovery C
Computing Services	42.1% (8)	47.4% (9)	5.3% (1)	0.0% (0)	5.3% (1)	
Telecommunications	40.0% (6)	53.3% (8)	0.0% (0)	0.0% (0)	6.7% (1)	
Emergency Services	41.7% (5)	41.7% (5)	8.3% (1)	0.0% (0)	8.3% (1)	
Network Services	43.8% (7)	43.8% (7)	6.3% (1)	0.0% (0)	6.3% (1)	
Facilities	22.2% (2)	44.4% (4)	22.2% (2)	0.0% (0)	11.1% (1)	
File and Print Services	37.5% (6)	62.5% (10)	0.0% (0)	0.0% (0)	0.0% (0)	
ERP	77.3% (17)	22.7% (5)	0.0% (0)	0.0% (0)	0.0% (0)	
Email	40.0% (8)	50.0% (10)	5.0% (1)	0.0% (0)	5.0% (1)	
Web Services	38.9% (7)	61.1% (11)	0.0% (0)	0.0% (0)	0.0% (0)	
Library	15.4% (2)	61.5% (8)	15.4% (2)	0.0% (0)	7.7% (1)	
Instructional Technology Classrooms	33.3% (3)	22.2% (2)	33.3% (3)	0.0% (0)	11.1% (1)	
Learning Management System	66.7% (8)	25.0% (3)	0.0% (0)	0.0% (0)	8.3% (1)	
Desktop Backup	25.0% (2)	25.0% (2)	37.5% (3)	0.0% (0)	12.5% (1)	
Other	16.7% (1)	50.0% (3)	16.7% (1)	0.0% (0)	16.7% (1)	

Recovery Point Objective

	Hour	Day	Week	Month	Year	Recovery C
Computing Services	21.1% (4)	21.1% (4)	26.3% (5)	5.3% (1)	26.3% (5)	
Telecommunications	28.6% (4)	14.3% (2)	21.4% (3)	0.0% (0)	35.7% (5)	
Emergency Services	25.0% (3)	25.0% (3)	8.3% (1)	0.0% (0)	41.7% (5)	
Network Services	12.5% (2)	31.3% (5)	12.5% (2)	6.3% (1)	37.5% (6)	
Facilities	12.5% (1)	12.5% (1)	12.5% (1)	25.0% (2)	37.5% (3)	
File and Print Services	29.4% (5)	23.5% (4)	0.0% (0)	11.8% (2)	35.3% (6)	

ERP	42.9% (9)	9.5% (2)	4.8% (1)	23.8% (5)	19.0% (4)
Email	31.6% (6)	15.8% (3)	5.3% (1)	5.3% (1)	42.1% (8)
Web Services	11.8% (2)	23.5% (4)	17.6% (3)	23.5% (4)	23.5% (4)
Library	7.7% (1)	38.5% (5)	7.7% (1)	15.4% (2)	30.8% (4)
Instructional Technology Classrooms	11.1% (1)	11.1% (1)	33.3% (3)	11.1% (1)	33.3% (3)
Learning Management System	27.3% (3)	18.2% (2)	0.0% (0)	18.2% (2)	36.4% (4)
Desktop Backup	12.5% (1)	0.0% (0)	25.0% (2)	25.0% (2)	37.5% (3)
Other	0.0% (0)	33.3% (2)	0.0% (0)	0.0% (0)	66.7% (4)
					answered question
					skipped question

4. Additional Comments

	Response Count
	8
answered question	8
skipped question	17

Q1. Person Responding to this Survey

1

Name:	James Ennis	Feb 22, 2012 1:38 PM
College or District	Solano Community College District	Feb 22, 2012 1:38 PM
Email Address:	james.ennis@solano.edu	Feb 22, 2012 1:38 PM

2

Name:	Tom Benton	Feb 22, 2012 11:01 AM
College or District	Sierra College	Feb 22, 2012 11:01 AM
Email Address:	tbenton@sierracollege.edu	Feb 22, 2012 11:01 AM

3

Name:	Co Ho	Feb 22, 2012 10:59 AM
College or District	Fullerton College	Feb 22, 2012 10:59 AM
Email Address:	cho@fullcoll.edu	Feb 22, 2012 10:59 AM

4

Name:	Tom Wallace	Feb 22, 2012 9:42 AM
College or District	North Orange County Community College District	Feb 22, 2012 9:42 AM
Email Address:	twallace@nocccd.edu	Feb 22, 2012 9:42 AM

5

Name:	Troy McKeown	Feb 22, 2012 9:41 AM
College or District	Cypress College	Feb 22, 2012 9:41 AM
Email Address:	tmckeown@cypresscollege.edu	Feb 22, 2012 9:41 AM

6

Name:	Mario Valente	Feb 22, 2012 8:42 AM
College or District	MiraCosta College	Feb 22, 2012 8:42 AM
Email Address:	mvalente@miracosta.edu	Feb 22, 2012 8:42 AM

7

Name:	Bina Susan Isaac	Feb 21, 2012 4:57 PM
College or District	College of the Desert	Feb 21, 2012 4:57 PM
Email Address:	bisaac@collegeofthedesert.edu	Feb 21, 2012 4:57 PM

Q1. Person Responding to this Survey

8

Name:	Mike Midkiff	Feb 21, 2012 10:39 AM
College or District	College of the Siskiyous	Feb 21, 2012 10:39 AM
Email Address:	Netadmins@siskiyous.eedu	Feb 21, 2012 10:39 AM

9

Name:	Wayne Howe	Feb 16, 2012 1:48 PM
College or District	Butte-Glenn Community College District	Feb 16, 2012 1:48 PM
Email Address:	howewa@butte.edu	Feb 16, 2012 1:48 PM

10

Name:	Leigh Buchwald	Feb 14, 2012 4:36 PM
College or District	Citrus College	Feb 14, 2012 4:36 PM
Email Address:	lbuchwald@citruscollege.edu	Feb 14, 2012 4:36 PM

11

Name:	Daniel Watkins	Feb 14, 2012 9:56 AM
College or District	Santa Barbara City College	Feb 14, 2012 9:56 AM
Email Address:	watkins@sbcc.edu	Feb 14, 2012 9:56 AM

12

Name:	satish warrier	Feb 13, 2012 10:08 PM
College or District	contra costa District	Feb 13, 2012 10:08 PM
Email Address:	swarrier@4cd.edu	Feb 13, 2012 10:08 PM

13

Name:	Anthony Maciel	Feb 13, 2012 9:29 AM
College or District	Golden West College	Feb 13, 2012 9:29 AM
Email Address:	amaciel@gwc.cccd.edu	Feb 13, 2012 9:29 AM

14

Name:	Aaron Stafford	Feb 13, 2012 8:09 AM
College or District	Butte College	Feb 13, 2012 8:09 AM
Email Address:	staffordaa@butte.edu	Feb 13, 2012 8:09 AM

Q1. Person Responding to this Survey

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Name:	Adrian Agundez	Feb 11, 2012 2:45 PM
College or District	Taft College	Feb 11, 2012 2:45 PM
Email Address:	agundez@taftcollege.edu	Feb 11, 2012 2:45 PM

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Name:	Lavester Boykin	Feb 10, 2012 2:31 PM
College or District	Monterey Peninsula College	Feb 10, 2012 2:31 PM
Email Address:	lboykin@mpc.edu	Feb 10, 2012 2:31 PM

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Name:	John Loucks	Feb 10, 2012 1:26 PM
College or District	Mendocino College	Feb 10, 2012 1:26 PM
Email Address:	jloucks@mendocino.edu	Feb 10, 2012 1:26 PM

18

Name:	Jeff Dorsz	Feb 10, 2012 12:26 PM
College or District	SOCCCD	Feb 10, 2012 12:26 PM
Email Address:	jdorsz@socccd.edu	Feb 10, 2012 12:26 PM

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Name:	Mick Holsclaw	Feb 10, 2012 11:45 AM
College or District	Los Rios Community College District	Feb 10, 2012 11:45 AM
Email Address:	holsclm@losrios.edu	Feb 10, 2012 11:45 AM

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Name:	Jeff Cantwell	Feb 9, 2012 8:31 AM
College or District	Imperial Valley College	Feb 9, 2012 8:31 AM
Email Address:	jeff.cantwell@imperial.edu	Feb 9, 2012 8:31 AM

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Name:	Dave Fuhrmann	Feb 7, 2012 3:34 PM
College or District	Ventura County Community College District	Feb 7, 2012 3:34 PM
Email Address:	dfuhrmann@vccd.edu	Feb 7, 2012 3:34 PM

Q1. Person Responding to this Survey

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Name:	Jocelyn Chong	Feb 7, 2012 2:32 PM
College or District	Santa Monica College	Feb 7, 2012 2:32 PM
Email Address:	chong_jocelyn@smc.edu	Feb 7, 2012 2:32 PM

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Name:	Andy Chang	Feb 7, 2012 2:21 PM
College or District	SBCCD\EduStream	Feb 7, 2012 2:21 PM
Email Address:	achang@sbccd.org	Feb 7, 2012 2:21 PM

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Name:	Adrian B. Agundez	Feb 7, 2012 2:00 PM
College or District	Taft College	Feb 7, 2012 2:00 PM
Email Address:	agundez@taftcollege.edu	Feb 7, 2012 2:00 PM

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Name:	Justin Howell	Feb 7, 2012 1:51 PM
College or District	Solano Community College	Feb 7, 2012 1:51 PM
Email Address:	justin.howell@solano.edu	Feb 7, 2012 1:51 PM

Q4. Additional Comments

1	Most others we have RPO of 24 hours and RTO in 3 groups; 0-4 hours, 4-12 hours, 24 hours, and best effort; and have that broken down by application/services. Would like to see option for disk-to-disk deduplication at remote location.	Feb 22, 2012 11:01 AM
2	This information covers the District Offices and the School of Continuing Education. Cypress College and Fullerton College are to submit their information separately. We see cloud backup initially providing offsite storage, but would want to migrate toward replacing our current backup methods with it.	Feb 22, 2012 9:42 AM
3	our email will soon be hosted by microsoft so that we don't have to worry about. We would like to see some solution to replicate MS SQLserver to cloud which will soon host our ERP, it already has app we write and sharepoint portal as well.	Feb 13, 2012 10:08 PM
4	Encrypted!!! Track History of Security Best Practices including audit and pen testing. No data mining companies (Google)	Feb 10, 2012 1:26 PM
5	I only answered for those areas where we might use cloud storage in the near future. By the way, RPO usually means how much data loss you can tolerate. Traditional tape backup has a RPO of one day.	Feb 10, 2012 11:45 AM
6	We just implemented EVault for our ERP for off-site protection. Planning to move more areas to EVault over time. EVault was very well suited for not only common Windows based services, but Unix/Oracle environment as well.	Feb 9, 2012 8:31 AM
7	1. Our mission critical data backup/recovery centered on ERP (Oracle), E-Mail (Exchange), Web (SharePoint). Each requires special mechanism to handle online backup. Most cloud back-up solution can handle simple file system backup easily but lack of feasible solution for specialized online backup requirements. 2. We would like to eventually use cloud based backup to replace our existing mechanism when it is proven. My selected options would be our first phase implementation approach. 3. Most of our backups are centralized so many of the categories do not apply. I split to a few categories that I feel more matched with the description. Hope this helps.	Feb 7, 2012 2:32 PM
8	I put a year for all the RPO ... more realistically most we'd target for 3-6 months. But definitely more than a single month.	Feb 7, 2012 1:51 PM