



From cloud landscape clusters to standards profiles

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Our aim

- ◆ Identify clusters of interest based on evidence
- ◆ Facilitate and coordinate adoption of standards
- ◆ Support formal profiling process for practical implementations

Our methodology

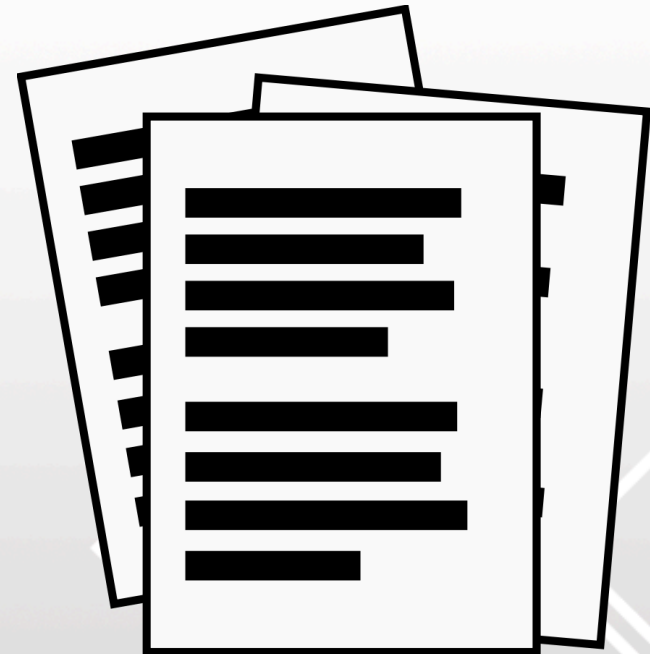
1. Scoring

	On Demand Self-Service	Broad Network Access	Resource Pooling	Rapid Elasticity	Measured Service	Flexible Scale	Homogeneity	Virtualization	Low Cost Software	Resilient Computing	Geographic Distribution	Service Orientation	Advanced Security
ARTIST	3	5	8	7	8	2	1	1	6	1	7	7	3
ASCETIC	7	2	5	7	9	7	3	5	7	8	7	6	2
BETaaS	7	8	6	7	6	4	3	4	2	7	6	7	5
BigFoot	9	4	9	9	1	9	1	9	1	6	4	4	1
BNCweb	7	4	4	3	2	4	5	3	5	2	1	7	2
Broker@Cloud	3	4	7	4	7	2	8	7	2	8	5	9	7
Catania Science Gateway	8	6	6	7	5	6	6	8	7	5	6	5	5
CELAR	8	4	7	9	5	2	4	7	5	9	6	7	3
CloudCatalyst	6	6	6	4	1	1	1	6	8	4	4	6	5
CloudLightning	9	7	8	7	6	9	5	5	6	5	5	5	3
CloudScale	9	9	6	9	6	9	3	6	7	1	1	9	1
CloudSpaces	9	9	9	9	9	7	9	9	9	7	9	9	9
CloudTeams	9	9	7	2	1	1	7	1	8	1	2	1	7
CloudWave	8	8	8	8	9	4	3	7	8	7	3	9	5
COMPOSE	7	4	6	7	6	2	4	7	7	6	2	9	4
DICE	2	2	7	8	8	6	2	6	8	9	7	6	6
Embassy Cloud	7	7	2	1	6	3	6	8	3	8	1	7	9
GEMMA	8	7	8	8	7	3	3	4	3	8	5	8	9
INPUT	7	5	5	8	6	4	2	8	2	5	8	5	2
IOStack	9	9	9	8	8	7	7	9	6	9	2	9	2
LEADS	9	8	2	4	3	7	7	8	8	8	5	9	3
Leicester	6	6	5	5	3	2	7	3	4	5	2	6	8
MCN	9	9	5	1	5	9	2	8	5	5	9	9	6
Mobiz	9	7	9	7	7	6	8	4	6	9	7	8	9
MODAClouds	8	4	5	9	9	9	1	1	8	8	8	9	1
OpenModeller	9	7	8	7	3	7	8	8	9	4	7	8	5
PassWord	7	1	7	1	1	3	1	3	1	5	4	9	9
PANACEA	8	9	8	8	6	6	5	7	5	8	7	9	8
S-CASE	9	7	7	3	3	3	3	3	7	6	4	9	7
SeaClouds	7	3	3	9	9	7	2	4	7	8	9	8	2
SeaClouds	8	4	5	9	9	9	1	1	8	8	8	9	1
STORM CLOUDS	6	7	8	8	9	6	3	6	6	4	7	8	9
SUPERCLOUD	8	2	7	4	2	3	8	8	2	9	7	5	9
Textel	5	8	7	7	8	4	4	4	4	8	3	8	7
Umea	5	3	3	2	2	2	4	6	4	3	3	7	7
U-QASAR	5	7	6	7	7	2	2	5	4	4	4	7	6
Varberg	8	7	8	5	4	3	4	5	3	6	3	8	8
WellNR	9	8	8	9	5	7	9	8	7	3	9	6	3

2. Clustering

	On Demand Self-Service	Broad Network Access	Resource Pooling	Rapid Elasticity	Measured Service	Flexible Scale	Homogeneity	Virtualization	Low Cost Software	Resilient Computing	Geographic Distribution	Service Orientation	Advanced Security
CloudTeams	0.9489	1.9138	1.0391	1.8256	0.6472	-1.3564	1.1492	-1.4084	0.3053	-4.5182	-3.6219	-2.9830	0.3201
SUPERCLOUD	-0.0938	-1.6926	0.3439	-1.1500	-1.1322	-1.2256	2.0211	2.7227	-3.5858	1.6068	0.7062	-1.6446	1.5831
Embassy Cloud	0.0224	-0.1069	-0.2046	-0.5440	-1.5888	-1.5095	1.4730	0.9870	-1.5482	0.9983	-2.1735	1.3067	1.9674
ARTIST	-0.9954	-0.8551	0.9328	1.3410	1.3491	-1.8087	-3.2776	-3.6275	0.4696	-2.0489	-0.1213	-0.7875	-0.6271
CloudScale	1.9797	2.0256	-0.4147	0.4614	0.1139	1.8418	-0.3243	-1.0548	3.1877	-1.9778	-0.9368	0.3953	-1.8993
DICE	-1.4634	-1.2765	0.4663	1.6661	1.8870	-0.4034	-0.2910	-0.7530	-1.1131	1.2840	2.1582	0.0407	-0.1941
Broker@Cloud	-0.0893	-1.1106	0.1715	-1.0155	0.4313	-2.1618	0.4470	0.4841	-2.5252	1.9505	-0.0510	0.7493	2.5777
MCN	1.6190	0.5261	-1.4281	-0.9154	-0.3684	1.4114	0.8168	1.0733	0.7557	0.6343	-0.2919	1.0840	-0.4875
LEADS	2.5906	0.7243	-2.3570	-1.8621	-1.0080	2.0437	1.2571	1.6188	1.0921	0.7396	-0.7811	1.5565	-0.8481
BigFoot	1.1965	-1.6288	0.7691	1.2799	-1.9822	1.1492	0.3388	1.7470	-1.2443	-0.4724	2.1119	-3.2468	-1.9038
Umea	-1.2092	-1.5321	-0.2050	-0.8078	-2.2272	-2.2873	-0.5992	-0.6935	-1.7809	-0.8083	-1.9859	0.4646	0.5160
PassWord	-2.1409	-1.8578	-1.2892	-1.4635	-1.4285	-2.8167	-0.6832	-0.6881	-2.4485	-0.0785	-1.3696	-0.3675	1.2823
WellNR	2.4287	1.3137	1.6391	1.7333	-0.5620	1.9470	1.5730	1.5009	1.0101	-0.5523	1.0614	-1.4556	-1.0268
OpenModeller	2.3437	1.6662	0.7801	0.5852	-0.5552	1.5504	1.7479	1.3063	1.1314	-0.3310	0.0607	-0.4046	-0.4109
CloudLightning	-1.4880	0.7337	0.8833	1.2601	-0.4083	1.3493	0.3935	0.3891	1.0533	-0.9748	0.6186	-1.1765	-1.2822
Catania Science Gateway	1.2651	0.1457	0.3532	0.3559	-0.9535	0.8382	0.7983	1.0049	0.0196	-0.3164	0.4615	-1.0802	-0.6798
Varberg	-0.4006	0.6717	0.5855	-0.9433	-0.5190	-1.5074	0.9917	-0.0218	-0.7373	-0.1765	-1.2361	-0.0336	1.6534
Leicester	-0.8243	0.0918	-0.2013	-1.9673	-1.4988	-2.3130	0.4160	-0.6665	-1.1140	-1.0405	-2.0606	-0.5290	1.3991
CloudCatalyst	-0.5473	-0.3247	-0.5660	-1.2998	-1.5179	-1.4286	-0.6548	-1.2186	-0.3112	-1.8249	-1.5250	-1.0527	-0.2068
BNCweb	0.0259	-0.4727	-0.0241	-0.3917	-2.2835	-1.0584	-0.9349	-1.3439	0.1190	-2.2685	-2.2252	-0.7711	-0.9742
PANACEA	0.5907	1.2474	1.2112	0.8431	1.1588	0.5710	1.4591	1.0798	0.2479	1.3326	0.5189	0.9395	1.2100
Mobiz	0.5033	1.4190	1.6616	0.9659	1.1297	0.2974	1.6928	1.1033	0.0891	1.2561	0.4643	0.7260	1.5314
IOStack	1.9657	2.0047	1.0047	1.0332	0.9510	1.7972	1.9965	1.5370	1.2805	1.0582	0.5311	1.0270	0.4310
CloudSpaces	1.8672	2.4549	1.8844	2.0025	2.1668	2.1580	2.3344	1.9247	1.4163	2.0438	1.2758	1.6719	1.0479
INPUT	-0.3368	-0.0570	-0.1658	0.7153	-0.7088	0.3965	-0.9107	0.5158	-1.1649	0.1164	1.6618	1.6245	-1.3610
STORM CLOUDS	-0.8468	0.6826	1.4517	1.3743	1.6879	-0.1684	-0.2421	-0.6938	0.4527	0.2928	0.4480	0.5216	0.7485
Textel	-1.4464	0.4409	0.6938	0.0730	1.3458	-1.2556	-0.1984	-0.8857	-0.1841	0.5092	-0.4677	1.0866	1.5665
GEMMA	-1.1218	0.3671	1.2406	0.4541	1.0871	-1.0695	0.3563	-0.1787	-0.6006	0.7580	0.0458	0.5081	1.6476
CloudWave	0.2214	1.5556	0.7880	0.9109	1.6531	0.5579	0.2398	-0.4433	1.4867	0.2748	-0.0952	1.3281	0.4824
CELAR	-0.2592	-1.0799	0.3376	0.7646	1.1195	0.3291	-0.0760	0.8158	-0.9881	0.8968	1.4144	-0.5715	0.2167
S-CASE	0.3764	1.1640	-0.6036	-1.2043	-0.1961	-0.4174	0.3568	-0.6105	0.8173	-0.7106	-1.6861	0.8198	0.4762
U-QASAR	-1.6621	-0.2714	0.3322	-0.1633	0.3675	-1.5994	-1.0425	-1.5615	-0.3211	-0.7178	-0.6994	-0.0865	0.6192
COMPOSE	-0.4289	-0.0656	-0.6234	-0.5888	0.2058	-0.3474	-0.3856	-0.4873	0.0872	0.0553	-0.5118	0.6606	0.2003
BETaaS	-0.7286	-0.3648	0.2336	0.1141	1.2694	-0.5383	-0.3033	-0.2654	-0.4488	1.6892	1.1366	-0.0399	0.3493
SeaClouds	-0.6157	-1.9163	-1.5754	1.3280	1.8011	1.9739	-2.5305	-0.4830	0.7682	1.1746	2.2379	1.0577	-2.3056
ASCETIC	-0.4722	-1.8513	-0.8811	1.2014	0.8952	1.3890	-1.8344	-0.0846	0.0811	0.7540	2.0358	0.0100	-1.8942
SeaClouds	-0.3712	-0.8924	-1.1554	1.8006	2.5261	2.3884	-2.8478	-1.3194	1.2142	0.4593	1.9446	1.4238	-2.6507
MODAClouds	-0.3712	-0.8924	-1.1554	1.8006	2.5261	2.3884	-2.8478	-1.3194	1.2142	0.4593	1.9446	1.4238	-2.6507

3. Strawman profiles



What we need

- ◆ ETSI CSC portfolio of standards
 - ◆ WP2, WP3 & WP4 outputs
 - ◆ Categorise these by service models
- ◆ Agreed common cloud characteristics definition
 - ◆ Start with NIST's 5 and extend where needed
 - ◆ Map CSC portfolio into these
- ◆ Combine both works!
 - ◆ Use the produced material to flesh out identified profiles