Level 3 Cloud Based Systems and Services

Performance points for 2019

Will be on UCAS Tariff Table from May 2018 onwards.

For Certificate: 3 mandatory units below and 2 optional, for example Cisco CyberSecurity Essentials and Networking Essentials

For Diploma: 3 mandatory units below and 5 optional, for example Cisco CCNA 1-4, Cisco CCNA Security

Please note: although the units are "optional", they are actually mandatory as they are required for Guided Learning Hours. They are optional as there is a choice of many from which to select the required number.



Level 3

Level 3, Unit 40 - Cloud Based Services and Applications (5 credits)

- 1. Select, analyse and connect cloud based services and their associated applications to meet needs
- 1.1 Describe the connectivity needed for cloud based services to work [5]
- 1.2 Analyse the connectivity needed to make cloud based services productive and efficient [8]

- 2. Install and configure accounts and manage them to meet needs and be in line with costs and requirements
- 2.1 Analyse the requirements for account management [6]
- 2.2 Assess the needs of account management and recommend procedures and processes for optimal use
- 3. Check and test the systems in terms of functionality and interoperability and that they meet needs and expectations
- 3.1 Analyse system needs based on effectiveness and efficiency [7]
- 3.2 Document and describe system needs to match outcomes [10]

[9]

- 1.3 Critically assess the needs of different devices needed to connect and use the cloud, including any limitations they might have [11]
- 2.3 Verify account management procedures are fit for purpose [12]
- 3.3 Describe and explain different file types relating to expected needs and outcomes [13]

- 1.4 Research and recommend applications for cloud based services dependent on needs [14]
- 2.4 Evaluate costs associated with cloud based access against requirements [15]
- 3.4 Describe and explain file extensions in terms of strengths and weaknesses [16]

- 1.5 Describe and evaluate the limitations on connectivity based on speed and expected outcomes [17]
- 2.5 Describe and recommend account management packages based on value for money and suitability [18]
- 3.5 Present research and match findings to the requirements of different needs and expectations [19]
- 2.6 Use/evaluate different tools/control panels/portals to manage cloud products [20]
- 2.7 Compare several different offerings and recommend the best one based on cost, services and account flexibility [21]
- 2.8 Use account management techniques in line with local guidelines and legal restrictions [22]

Level 3, Unit 41 - Cloud Based Systems and Security (5 credits)

- 1. Assess and understand cloud based systems and the required security to make them effective
- 2. Analyse and configure systems for effective and efficient data management and make recommendations
- 3. Investigate and understand security threats and legal issues surrounding cloud based systems

- 1.1 Describe and compare the main hypervisors used to deliver cloud computing
- 2.1 Evaluate the key hardware and software required for big data
- 3.1 Analyse and research the main threats to cloud based systems [26]

solutions and describe how [24] it is used [25] 1.2 Describe the main 2.2 Analyse the data 3.2 Describe the threats to systems and hardware used requirements of a range of cloud based systems and for cloud based use and situations [28] give examples of their functionality [29] explain their main features [27] 1.3 Analyse the features of 2.3 Describe how the data 3.3 Describe and the main cloud based needs of different recommend ways to systems and services [30] companies and usage will minimise threats to cloud affect their data solutions based systems [32] [31] 2.4 Describe the different 1.4 Assess the strengths of 3.4 Describe the laws the cloud based services on which affect cloud based types of data management offer and give clear system available [34] services [35] examples to illustrate my conclusions [33] 1.5 Assess the weaknesses 2.5 Assess the strengths of 3.5 Describe the licenses of the cloud based services data management systems and their impact on cloud on offer and indicate ways and recommend the best in based services [38] terms of effectiveness and to minimise the impact of these problems [36] efficiency [37] 1.6 Evaluate cloud based 2.6 Evaluate data 3.6 Evaluate the impact of services and systems laws and licenses on the management and attempt against desktop and to predict future trends [40] development of cloud based dedicated server based services [41] systems [39]

2.7 Analyse the legal implications of cloud based data storage and retrieval [42]

Level 3, Unit 42 - Undertaking a RealWorld Project (5 credits)

1. Research and plan a real-world project to apply my theoretical knowledge in a

2. Analyse the service and security re quirements for the project to be a

3. Describe the application s and data requirements needed in line with client

4. Produce a project based on my research and unders tanding to meet the

5.
Recommen
d services
and
application
s to meet
client
needs

practical way	success	needs and expectatio ns and to cope with scaling and flexibility	client's needs	
1.1 State the aims and objectives of the project [44]	2.1 Identify the service requirements for the project [45]	3.1 Identify a range of hardware and software solutions [46]	4.1 Produce a working system to satisfy the client's needs and objectives set out in the planning process [47]	5.1 Evaluate the solution with respect to the client budget [48]
1.2 Show a real need for the project undertaken [49]	2.2 Identify the security requirements of the client [50]	3.2 Explain the limitations and cost implications of each solution to the client [51]		5.2 Test and evaluate the solution to meet the client's needs [52]
1.3 Define the client base [53]	2.3 Produce an outline plan for the project [54]	3.3 Describe the back-up and disaster recovery processes to ensure system stability [55]		5.3 Evaluate the solution with respect to local conventions and legal requirements [56]
1.4 Provide a list of alternative solutions [57]				
1.5 Evaluate the alternatives [58]				

Links to ITQ units

Entry Level	Level 1	Level 2	Level 3
Entry Level 1, Unit	Level 1, Unit R -	<u>Level 2, Unit R -</u>	<u>Level 3, Unit R -</u>
R - Registration [60]	Registration [61]	<u>Registration</u> [62]	<u>Registration</u> [63]
Entry Level 1, Unit	Level 1, Unit 1 -	Level 2, Unit 1 -	Level 3, Unit 1 -
1 - Improving	Improving	Improving	Improving

Productivity Using IT (1 credit) [64]	Productivity Using IT (3 credits) [65]	Productivity Using IT (4 credits) [66]	Productivity Using IT (5 credits) [67]
Entry Level 1, Unit 2 - Using ICT to Select and Exchange Information (2 credits) [68]	Level 1, Unit 2 - Website Software (3 credits) [69]	Level 2, Unit 2 - Website Software (4 credits) [70]	Level 3, Unit 2 - Website Software (5 credits) [71]
Entry Level 1, Unit 3 - Online Basics (2 credits) [72]	Level 1, Unit 3 - Using Collaborative Technologies (3 credits) [73]	Level 2, Unit 3 - Using Collaborative Technologies (4 credits) [74]	Level 3, Unit 3 - Using Collaborative Technologies (6 credits) [75]
Entry Level 1, Unit 4 - Desktop Publishing Software (2 credits) [76]	Level 1, Unit 4 - IT Security for Users (1 credit) [77]	Level 2, Unit 4 - IT Security for Users (2 credits) [78]	Level 3, Unit 4 - IT Security for Users (3 credits) [79]
Entry Level 1, Unit 5 - Safe Working Practices (2 credits) [80]	Level 1, Unit 5 - Spreadsheet Software (3 credits) [81]	Level 2, Unit 5 - Spreadsheet Software (4 credits) [82]	Level 3, Unit 5 - Spreadsheet Software (6 credits) [83]
Entry Level 1, Unit 6 - Using ICT in the Workplace (2 credits) [84]	Level 1, Unit 6 - Specialist Software (2 credits) [85]	Level 2, Unit 6 - Specialist software (3 credits) [86]	Level 3, Unit 6 - Specialist Software (4 credits) [87]
Entry Level 1, Unit 7 - Imaging software (2 credits) [88]	Level 1, Unit 7 - Word Processing (3 credits) [89]	Level 2, Unit 7 - Word processing (4 credits) [90]	Level 3, Unit 7 - Word Processing Software (6 credits) [91]
Entry Level 1, Unit 8 - Using ICT Equipment in a Work Place (2 credits) [92]	Level 1, Unit 8 - Using the Internet (3 credits) [93]	Level 2, Unit 8 - Using the internet (4 credits) [94]	Level 3, Unit 8 - Using the Internet (5 credits) [95]
Entry Level 1, Unit 9 - Using Word Processing Software (2 credits) [96]	Level 1, Unit 9 - Drawing and planning (2 credits) [97]	Level 2, Unit 9 - Drawing and planning (3 credits) [98]	Level 3, Unit 9 - Drawing and Planning Software (4 credits) [99]
Entry Level 1, Unit 11 - Audio and Video Software (2 credits) [100]	Level 1, Unit 10 - Presentation Software (3 credits) [101]	Level 2, Unit 10 - Presentation software (4 credits) [102]	Level 3, Unit 10 - Presentation Software (6 credits) [103]
Entry Level 1, Unit 12 - Presentation Software (2 credits) [104]	Level 1, Unit 11 - Database Software (3 credits) [105]	Level 2, Unit 11 - Database software (4 credits) [106]	Level 3, Unit 11 - Database Software (6 credits) [107]
Entry Level 1, Unit	Level 1, Unit 12 -	Level 2, Unit 12 -	Level 3, Unit 12 -

13 - Computer Games Development (2 credits) [108]	Desktop Publishing Software (3 credits) [109]	Desktop Publishing Software (4 credits) [110]	Desktop Publishing Software (5 credits) [111]
Entry Level 1, Unit 14 - Video Communication (2 credits) [112]	Level 1, Unit 13 - Using Email (2 credits) [113]	Level 2, Unit 13 - Using Email (3 credits) [114]	Level 3, Unit 13 - Using Email (3 credits) [115]
Entry Level 1, Unit 29 - Understand social media (2 credits) [116]	Level 1, Unit 14 - Audio Software (2 credits) [117]	Level 2, Unit 14 - Audio Software (3 credits) [118]	Level 3, Unit 14 - Audio Software (4 credits) [119]
Entry Level 2, Unit R - Registration [120]	Level 1, Unit 15 - Imaging Software (3 credits) [121]	Level 2, Unit 15 - Imaging Software (4 credits) [122]	Level 3, Unit 15 - Imaging Software (5 credits) [123]
Entry Level 2, Unit 1 - Improving Productivity Using IT (2 credits) [124]	Level 1, Unit 16 - IT Communication Fundamentals (2 credits) [125]	Level 2, Unit 16 - IT Communication Fundamentals (2 credits) [126]	Level 3, Unit 17 - Video Software (4 credits) [127]
Entry Level 2, Unit 2 - Using ICT to Select and Exchange Information (2 credits) [128]	Level 1, Unit 17 - Video Software (2 credits) [129]	Level 2, Unit 17 - Video Software (3 credits) [130]	Level 3, Unit 23 - Multimedia Software (6 credits) [131]
Entry Level 2, Unit 3 - Online Basics (2 credits) [132]	Level 1, Unit 18 - IT Software Fundamentals (3 credits) [133]	Level 2, Unit 18 - IT Software Fundamentals (3 credits) [134]	Level 3, Unit 24 - Additive Manufacture (6 credits) [135]
Entry Level 2, Unit 4 -Desktop Publishing Software (2 credits) [136]	Level 1, Unit 19 - IT User Fundamentals (3 credits) [137]	Level 2, Unit 19 - IT User Fundamentals (3 credits) [138]	Level 3, Unit 27 - Design Software (5 credits) [139]
Entry Level 2, Unit 5 - Using ICT: Safe Working Practices (1 credit) [140]	Level 1, Unit 20 - Using Mobile IT Devices (2 credits) [141]	Level 2, Unit 20 - Using Mobile IT Devices (2 credits) [142]	Level 3, Unit 28 - Optimise IT System Performance (5 credits) [143]
Entry Level 2, Unit 6 - Using ICT in the Workplace (3 credits) [144]	Level 1, Unit 21 - Data Management Software (2 credits) [145]	Level 2, Unit 21 - Data Management Software (3 credits) [146]	<u>Level 3, Unit 29 -</u> <u>Set Up an IT System</u> (5 credits) [147]
Entry Level 2, Unit 7 - Imaging software (2 credits) [148]	Level 1. Unit 22- Understanding the social and environmental impact of architecture and	Level 2, Unit 22 -Understanding the social and environmental impact of architecture and	Level 3, Unit 32 - Computerised Accounting Software (5 credits) [151]

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	construction (3 credits) [149]	construction (4 credits) [150]	
Entry Level 2, Unit 8 - Using ICT Equipment in a Work Place (2 credits) [152]	Level 1, Unit 23 - Multimedia Software (3 credits) [153]	Level 2, Unit 23 - Multimedia Software (4 credits) [154]	Level 3, Unit 33 - Application Development Using Project Management Methods (6 credits) [155]
Entry Level 2, Unit 9 - Using Word Processing Software (2 credits) [156]	Level 1, Unit 24 - Additive Manufacture (3 credits) [157]	Level 2, Unit 24 - Additive Manufacture (3 credits) [158]	Level 3, Unit 37 - Internet of Things (6 credits) [159]
Entry Level 2, Unit 10 - ICT for Employment (1 credit) [160]	Level 1, Unit 25 - Developing Computer Games and Puzzles (4 credits) [161]	Level 2, Unit 25 - Developing Computer Games and Puzzles (4 credits) [162]	Level 3, Unit 40 - Cloud Based Services and Applications (5 credits) [163]
Entry Level 2, Unit 11 - Audio and Video Software (2 credits) [164]	Level 1, Unit 26 - Computer Games Development (3 credits) [165]	Level 2, Unit 26 - Computer Games Development (4 credits) [166]	Level 3, Unit 41 - Cloud Based Systems and Security (5 credits) [167]
Entry Level 2, Unit 12 - Presentation Software (2 credits) [168]	Level 1, Unit 27 - Design Software (3 credits) [169]	Level 2, Unit 27 - Design Software (4 credits) [170]	Level 3, Unit 42 - Undertaking a RealWorld Project (5 credits) [171]
Entry Level 2, Unit 14 - Video Communication (2 credits) [172]	Level 1, Unit 28 - Optimise IT System Performance (2 credits) [173]	Level 2, Unit 28 - Optimise IT System Performance (4 credits) [174]	Level 3, Unit 44 - Bespoke Software (4 credits) [175]
Entry Level 2, Unit 16 - Using Collaborative Technologies (2 credits) [176]	Level 1, Unit 29 - Set Up an IT System (3 credits) [177]	Level 2, Unit 29 - Set Up an IT System (4 credits) [178]	Level 3, Unit 57 - Networking Fundamentals (5 credits) [179]
Entry Level 2, Unit 26 - Computer Games Development (2 credits) [180]	<u>Level 1, Unit 30 -</u> <u>CAD (3 credits)</u> [181]	Level 2, Unit 30 - CAD (3 credits) [182]	Level 3, Unit 60 - Cisco CCNA 1 - Introduction to Networks (6 credits) [183]
Entry Level 2, Unit 29 - Understand social media (2 credits) [184]	Level 1, Unit 31 - Internet Safety for IT users (3 credits) [185]	Level 2, Unit 32 - Computerised Accounting Software (3 credits) [186]	Level 3, Unit 61 - Cisco CCNA 2 - Routing and Switching (6 credits) [187]
Entry Level 2, Unit	Level 1, Unit 32 -	Level 2, Unit 33 -	Level 3, Unit 62 -

32 - Website Software (2 credits) [188]	Computerised Accounting Software (2 credits) [189]	Application Development Using Project Management Methods (4 credits) [190]	Cisco CCNA 3 – Scaling Networks (6 credits) [191]
Entry Level 2, Unit 36 - Specialist Software (2 credits) [192]	Level 1, Unit 36 - Financial Modelling (3 credits) [193]	Level 2, Unit 34 - Developing skills for project management (4 credits) [194]	Level 3, Unit 63 - Cisco CCNA 4 - Connecting Networks (6 credits) [195]
Entry Level 3, Unit R - Registration [196]	Level 1, Unit 38 - Animation Software (3 credits) [197]	Level 2, Unit 35 - Using Project Management Software (4 credits) [198]	Level 3, Unit 64 - Cisco - CCNA Security (6 credits) [199]
Entry Level 3, Unit 1 - Improving Productivity Using IT (3 credits) [200]	Level 1, Unit 39 - Digital Art (3 credits) [201]	Level 2, Unit 38 - Animation Software (4 credits) [202]	Level 3, Unit 65 - Cisco - CyberSecurity Essentials (6 credits) [203]
Entry Level 3, Unit 2 - Online Basics (1 credit) [204]	Level 1, Unit 43 - E- safety for learners (2 credits) [205]	Level 2, Unit 39 - Digital Art (4 credits) [206]	Level 3, Unit 66 - Cisco - IT Essentials (6 credits) [207]
Entry Level 3, Unit 3 - Desktop Publishing Software (2 credits) [208]	Level 1, Unit 50 - Developing skills for remote working (3 credits) [209]	Level 2, Unit 43 - E-safety for learners (3 credits) [210]	Level 3, Unit 67 - Cisco - Networking Essentials (6 credits) [211]
Entry Level 3, Unit 4 - Displaying Information Using ICT (3 credits) [212]	Level 1, Unit 51 - Effectiveness communication using remote systems (4 credits) [213]	Level 2, Unit 50 - Developing skills for remote working (3 credits) [214]	
Entry Level 3, Unit 5 - Using ICT to Find Information (3 credits) [215]	Level 1, Unit 102 - Digital Editing and Publishing (4 credits) [216]	Level 2, Unit 51 - Effectiveness communication using remote systems (4 credits) [217]	
Entry Level 3, Unit 6 - Communicating Information Using ICT (3 credits) [218]	Level 1, Unit 103 - Digital Modelling (4 credits) [219]	DELLevel 2, Unit 70 - Understanding of Cyber Security and Online Threats (3 credits) [220]	
Entry Level 3, Unit 7 - Producing Charts Using ICT (3 credits)	Level 1, Unit 105 - Digital Design and Graphics (4 credits)	DELLevel 2, Unit 71 - Analysing and Evaluating Cyber	

[221]	[222]	Threats (3 credits) [223]
Entry Level 3, Unit 8 - IT Security for users (1 credit) [224]		DELLevel 2, Unit 72 - Applying and Deploying Security Tools and Best Practice (3 credits) [225]
Entry Level 3, Unit 10 - Presentation software (2 credits) [226]		DELLevel 2, Unit 73 - Extended Project: Securing and Defending Online Systems (6 credits) [227]
Entry Level 3, Unit 14 - Audio and Video Software (2 credits) [228]		Level 2, Unit 80 - Digital Tools and Best Practice for Project Management (5 credits) [229]
Entry Level 3, Unit 15 - Imaging Software (2 credits) [230]		Level 2, Unit 81 - Digital Safety and Security Policies and Procedures (4 credits) [231]
Entry Level 3, Unit 16 - Using Collaborative Technologies (3 credits) [232]		Level 2, Unit 82 - Digital Editing and Publishing (3 credits) [233]
Entry Level 3, Unit 20 - Introduction to Using mobile IT devices (2 credits) [234]		Level 2, Unit 83 - Digital Design and Graphics (3 credits) [235]
Entry Level 3, Unit 23 - Multimedia Software (2 credits) [236]		Level 2, Unit 84 - Digital Modelling and Data Management (3 credits) [237]
Entry Level 3, Unit 25 - Developing Computer Games and Puzzles (3 credits) [238]		Level 2, Unit 85 - Virtual Reality and the Development Life Cycle (4 credits) [239]
Entry Level 3, Unit 26 - Computer Games		

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Development (3 credits) [240]
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Entry Level 3, Unit 28 - Personal information management software (1 credit) [241]

Entry Level 3, Unit 32 - Website Software (2 credits) [242]

Entry Level 3, Unit 36 - Specialist Software (2 credits) [192]

Source URL: https://theingots.org/community/cloud

Links

- [1] https://theingots.org/community/sites/default/files/uploads/user4107/Handbook_2016_L3_Cert-Dip_1.1.pdf
- [2] https://register.ofqual.gov.uk/Detail/Index/37768?category=qualifications&query=TLM%20Level%203%20Certificate%20in%20User%20Skills%20in%20Cloud%20Systems%20and%20Services%20%28ITO%29
- [3] https://register.ofqual.gov.uk/Detail/Index/39391?category=qualifications&query=TLM%20Level%203%20Certificate%20in%20User%20Skills%20in%20Cloud%20Systems%20and%20Services%20%28ITQ%29
- [4] https://theingots.org/community/RQF Levels
- [5] https://theingots.org/community/sil3u40x#1.1
- [6] https://theingots.org/community/sil3u40x#2.1
- [7] https://theingots.org/community/sil3u40x#3.1
- [8] https://theingots.org/community/sil3u40x#1.2
- [9] https://theingots.org/community/sil3u40x#2.2
- [10] https://theingots.org/community/sil3u40x#3.2
- [11] https://theingots.org/community/sil3u40x#1.3
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- [13] https://theingots.org/community/sil3u40x#3.3
- [14] https://theingots.org/community/sil3u40x#1.4
- [15] https://theingots.org/community/sil3u40x#2.4
- [16] https://theingots.org/community/sil3u40x#3.4
- [17] https://theingots.org/community/sil3u40x#1.5
- [18] https://theingots.org/community/sil3u40x#2.5
- [19] https://theingots.org/community/sil3u40x#3.5
- [20] https://theingots.org/community/sil3u40x#2.6
- [21] https://theingots.org/community/sil3u40x#2.7
- [22] https://theingots.org/community/sil3u40x#2.8
- [23] https://theingots.org/community/sil3u40i
- [24] https://theingots.org/community/sil3u41x#1.1
- [25] https://theingots.org/community/sil3u41x#2.1
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[27] https://theingots.org/community/sil3u41x#1.2 [28] https://theingots.org/community/sil3u41x#2.2 [29] https://theingots.org/community/sil3u41x#3.2 [30] https://theingots.org/community/sil3u41x#1.3 [31] https://theingots.org/community/sil3u41x#2.3 [32] https://theingots.org/community/sil3u41x#3.3 [33] https://theingots.org/community/sil3u41x#1.4 [34] https://theingots.org/community/sil3u41x#2.4 [35] https://theingots.org/community/sil3u41x#3.4 [36] https://theingots.org/community/sil3u41x#1.5 [37] https://theingots.org/community/sil3u41x#2.5 [38] https://theingots.org/community/sil3u41x#3.5 [39] https://theingots.org/community/sil3u41x#1.6 [40] https://theingots.org/community/sil3u41x#2.6 [41] https://theingots.org/community/sil3u41x#3.6 [42] https://theingots.org/community/sil3u41x#2.7 [43] https://theingots.org/community/sil3u41i [44] https://theingots.org/community/sil3u42x#1.1 [45] https://theingots.org/community/sil3u42x#2.1 [46] https://theingots.org/community/sil3u42x#3.1 [47] https://theingots.org/community/sil3u42x#4.1 [48] https://theingots.org/community/sil3u42x#5.1 [49] https://theingots.org/community/sil3u42x#1.2 [50] https://theingots.org/community/sil3u42x#2.2 [51] https://theingots.org/community/sil3u42x#3.2 [52] https://theingots.org/community/sil3u42x#5.2 [53] https://theingots.org/community/sil3u42x#1.3 [54] https://theingots.org/community/sil3u42x#2.3 [55] https://theingots.org/community/sil3u42x#3.3 [56] https://theingots.org/community/sil3u42x#5.3 [57] https://theingots.org/community/sil3u42x#1.4 [58] https://theingots.org/community/sil3u42x#1.5 [59] https://theingots.org/community/sil3u42i [60] https://theingots.org/community/siel1u0reg [61] https://theingots.org/community/sil1u0reg [62] https://theingots.org/community/sil2u0reg [63] https://theingots.org/community/sil3u0reg [64] https://theingots.org/community/siel1u1 [65] https://theingots.org/community/sil1u1 [66] https://theingots.org/community/sil2u1 [67] https://theingots.org/community/sil3u1 [68] https://theingots.org/community/siel1u2 [69] https://theingots.org/community/sil1u2 [70] https://theingots.org/community/sil2u2 [71] https://theingots.org/community/sil3u2 [72] https://theingots.org/community/siel1u3 [73] https://theingots.org/community/sil1u3 [74] https://theingots.org/community/sil2u3 [75] https://theingots.org/community/sil3u3 [76] https://theingots.org/community/siel1u4 [77] https://theingots.org/community/sil1u4 [78] https://theingots.org/community/sil2u4 [79] https://theingots.org/community/sil3u4 [80] https://theingots.org/community/siel1u5 [81] https://theingots.org/community/sil1u5 [82] https://theingots.org/community/sil2u5 [83] https://theingots.org/community/sil3u5 [84] https://theingots.org/community/siel1u6 [85] https://theingots.org/community/sil1u6

[86] https://theingots.org/community/sil2u6 [87] https://theingots.org/community/sil3u6 [88] https://theingots.org/community/siel1u7 [89] https://theingots.org/community/sil1u7 [90] https://theingots.org/community/sil2u7 [91] https://theingots.org/community/sil3u7 [92] https://theingots.org/community/siel1u8 [93] https://theingots.org/community/sil1u8 [94] https://theingots.org/community/sil2u8 [95] https://theingots.org/community/sil3u8 [96] https://theingots.org/community/siel1u9 [97] https://theingots.org/community/sil1u9 [98] https://theingots.org/community/sil2u9 [99] https://theingots.org/community/sil3u9 [100] https://theingots.org/community/siel1u11 [101] https://theingots.org/community/sil1u10 [102] https://theingots.org/community/sil2u10 [103] https://theingots.org/community/sil3u10 [104] https://theingots.org/community/siel1u12 [105] https://theingots.org/community/sil1u11 [106] https://theingots.org/community/sil2u11 [107] https://theingots.org/community/sil3u11 [108] https://theingots.org/community/siel1u13 [109] https://theingots.org/community/sil1u12 [110] https://theingots.org/community/sil2u12 [111] https://theingots.org/community/sil3u12 [112] https://theingots.org/community/siel1u14 [113] https://theingots.org/community/sil1u13 [114] https://theingots.org/community/sil2u13 [115] https://theingots.org/community/sil3u13 [116] https://theingots.org/community/siel1u29 [117] https://theingots.org/community/sil1U14 [118] https://theingots.org/community/sil2u14 [119] https://theingots.org/community/sil3u14 [120] https://theingots.org/community/siel2u0reg [121] https://theingots.org/community/sil1u15 [122] https://theingots.org/community/sil2u15 [123] https://theingots.org/community/sil3u15 [124] https://theingots.org/community/siel2u1 [125] https://theingots.org/community/sil1u16 [126] https://theingots.org/community/sil2u16 [127] https://theingots.org/community/sil3u17 [128] https://theingots.org/community/siel2u2 [129] https://theingots.org/community/sil1u17 [130] https://theingots.org/community/sil2u17 [131] https://theingots.org/community/sil3u23 [132] https://theingots.org/community/siel2u3 [133] https://theingots.org/community/sil1u18 [134] https://theingots.org/community/sil2u18 [135] https://theingots.org/community/sil3u24 [136] https://theingots.org/community/siel2u4 [137] https://theingots.org/community/sil1u19 [138] https://theingots.org/community/sil2u19 [139] https://theingots.org/community/sil3u27 [140] https://theingots.org/community/siel2u5 [141] https://theingots.org/community/sil1u20 [142] https://theingots.org/community/sil2u20 [143] https://theingots.org/community/sil3U28

[144] https://theingots.org/community/siel2u6

[145] https://theingots.org/community/sil1u21 [146] https://theingots.org/community/sil2u21 [147] https://theingots.org/community/sil3u29 [148] https://theingots.org/community/siel2u7 [149] https://theingots.org/community/sil1u22 [150] https://theingots.org/community/sil2u22 [151] https://theingots.org/community/sil3u32 [152] https://theingots.org/community/siel2u8 [153] https://theingots.org/community/sil1u23 [154] https://theingots.org/community/sil2u23 [155] https://theingots.org/community/sil3u33 [156] https://theingots.org/community/siel2u9 [157] https://theingots.org/community/sil1u24 [158] https://theingots.org/community/sil2u24 [159] https://theingots.org/community/sil3u37 [160] https://theingots.org/community/siel2u10 [161] https://theingots.org/community/sil1u25 [162] https://theingots.org/community/sil2u25 [163] https://theingots.org/community/sil3u40 [164] https://theingots.org/community/siel2u11 [165] https://theingots.org/community/sil1u26 [166] https://theingots.org/community/sil2u26 [167] https://theingots.org/community/sil3u41 [168] https://theingots.org/community/siel2u12 [169] https://theingots.org/community/sil1u27 [170] https://theingots.org/community/sil2u27 [171] https://theingots.org/community/sil3u42 [172] https://theingots.org/community/siel2u14 [173] https://theingots.org/community/sil1u28 [174] https://theingots.org/community/sil2u28 [175] https://theingots.org/community/sil3u44 [176] https://theingots.org/community/siel2u16 [177] https://theingots.org/community/sil1u29 [178] https://theingots.org/community/sil2u29 [179] https://theingots.org/community/sil3u57 [180] https://theingots.org/community/siel2u26 [181] https://theingots.org/community/sil1u30 [182] https://theingots.org/community/sil2u30 [183] https://theingots.org/community/sil3u60 [184] https://theingots.org/community/siel2u29 [185] https://theingots.org/community/sil1u31 [186] https://theingots.org/community/sil2u32 [187] https://theingots.org/community/sil3u61 [188] https://theingots.org/community/siel2u32 [189] https://theingots.org/community/sil1u32 [190] https://theingots.org/community/sil2u33 [191] https://theingots.org/community/sil3u62 [192] https://theingots.org/community/siel3u36 [193] https://theingots.org/community/sil1u36 [194] https://theingots.org/community/sil2u34 [195] https://theingots.org/community/sil3u63 [196] https://theingots.org/community/siel3u0reg [197] https://theingots.org/community/sil1u38 [198] https://theingots.org/community/sil2u35 [199] https://theingots.org/community/sil3u64 [200] https://theingots.org/community/siel3u1 [201] https://theingots.org/community/sil1u39 [202] https://theingots.org/community/sil2u38 [203] https://theingots.org/community/sil3u65

[204] https://theingots.org/community/siel3u2 [205] https://theingots.org/community/sil1u43 [206] https://theingots.org/community/sil2u39 [207] https://theingots.org/community/sil3u66 [208] https://theingots.org/community/siel3u3 [209] https://theingots.org/community/sil1u50 [210] https://theingots.org/community/sil2u43 [211] https://theingots.org/community/sil3u67 [212] https://theingots.org/community/siel3u noprogression 1169 [213] https://theingots.org/community/sil1u51 [214] https://theingots.org/community/sil2u50 [215] https://theingots.org/community/siel3u5 [216] https://theingots.org/community/sil1u102 [217] https://theingots.org/community/sil2u51 [218] https://theingots.org/community/siel3u6 [219] https://theingots.org/community/sil1u103 [220] https://theingots.org/community/sil2u70 [221] https://theingots.org/community/siel3u7 [222] https://theingots.org/community/sil1u105 [223] https://theingots.org/community/sil2u71 [224] https://theingots.org/community/siel3u4 [225] https://theingots.org/community/sil2u72 [226] https://theingots.org/community/siel3u10 [227] https://theingots.org/community/sil2u73 [228] https://theingots.org/community/siel3u14 [229] https://theingots.org/community/sil2u80 [230] https://theingots.org/community/siel3u15 [231] https://theingots.org/community/sil2u81 [232] https://theingots.org/community/siel3u16

[233] https://theingots.org/community/sil2u82 [234] https://theingots.org/community/siel3u20 [235] https://theingots.org/community/sil2u83 [236] https://theingots.org/community/siel3u23 [237] https://theingots.org/community/sil2u84 [238] https://theingots.org/community/siel3u25 [239] https://theingots.org/community/sil2u85 [240] https://theingots.org/community/siel3u26 [241] https://theingots.org/community/siel3u28 [242] https://theingots.org/community/siel3u32

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