

Monthly Cloud Technology Market Report

November 2022

HANetf & GinsGlobal

HAN-GINS Cloud Technology UCITS ETF

SKYY

59bps

IE00BDDRE924

Product Inception Date: 05/10/2018

For Professional Clients Only. Capital at risk.

All data as of 31/10/2022

This report was written by, and is the opinion of, the SKYY index providers GinsGlobal.

Key Takeaways

- SKYY rebounded with a significant 6.8% gain.
- SKYY holdings are representative of Global Cloud industry - SaaS, PaaS and IaaS.
- Top 5 & 10 weightings remain less than half of key competitors. (11.8% and 20.3% respectively)
- SKYY's 75 holdings, low risk Equal Weighted approach ensures less MegaCap exposure.
- SKYY has the lowest PE ratios, Price/Book and Price/Sales numbers – versus competitors.
- SKYY year to date outperforming key Cloud competitors.
- Globally diversified - US 83.5%, China 8.1%, Japan 2.7% (Source: HANetf October 2022, SKYY Fact Sheet).
- Cloud revenue growth of 20% expected in 2022 – reaching ~\$500bn.
- Best October performers Digital China, Extreme Networks, Nutanix, Oracle & Kingsoft (up 27%+); Table below.
- Asian Cloud fast tracked through speedy 5G connections - Mobile and Online Gaming fastest growing gaming area.¹

Source of all data: Gins Global / Solactive. Data as of 31.10.2022. **Please note that all performance figures are showing net data.** Past performance is not indicative of future performance and when you invest in ETFs, your capital is at risk.

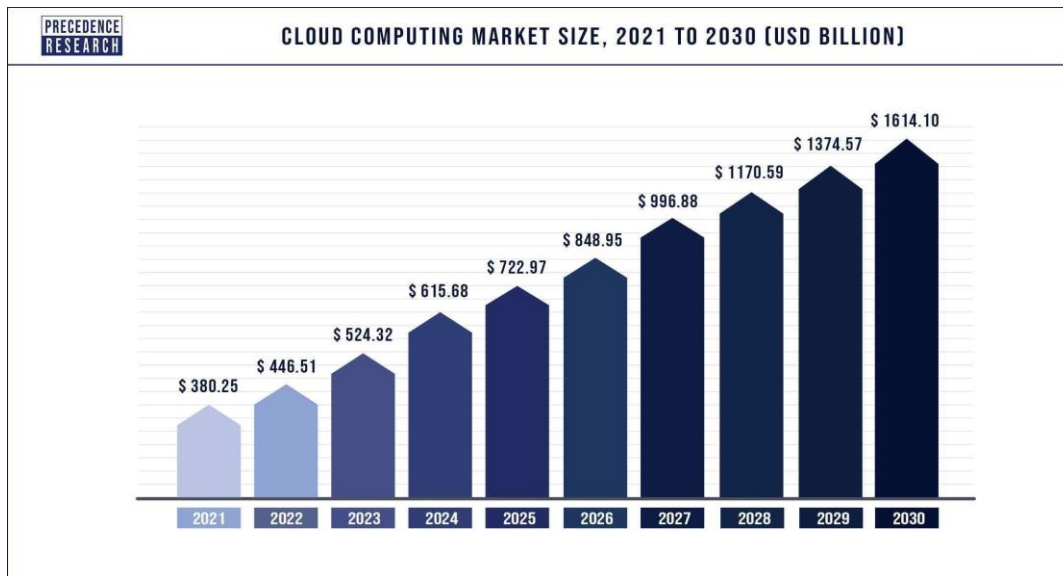
Marco Outlook

- Global Cloud computing market valued at US\$380bn in 2021; expected to hit US\$ 1,614bn by 2030.
- Annualized Growth rate of 17.43% expected from 2022 to 2030.
- Big Tech cloud players (Microsoft & Google) buying Gaming companies – Mobile Gaming booming.²
- Highly regulated industries, Healthcare (Hospitals) and Financial Services embracing Cloud – big deals at HCA Hospital Group with Google - plus JP Morgan, Wells Fargo, Morgan Stanley and Nasdaq recently.
- Over 50% of Corporate IT spending expected to shift to the Cloud by 2025.
- \$1.3tn of Revenues - expected to move to Cloud within 3 years.
- Only 25% of workloads in the Public Cloud – huge growth opportunity.
- WFH/Hybrid work driving shift towards Cloud platforms and cost efficiencies/savings.
- Potential Global Recession – belt tightening helps move to Cloud as cost savings.
- Ultra-fast networks, 5G and Wi-Fi 6E – allowing more data to be streamed from Cloud.

¹ <https://www.prysmiangroup.com/en/insight/telecoms/hexst/asia-pacific-public-cloud-services-spending-up-nearly-29-per-cent-in-2021>

² <https://www.theverge.com/22941636/microsoft-activision-blizzard-acquisition-sec-filing-came-together>

- Global Cloud gaming expected to hit \$57bn by 2027, a CAGR of 15.7%.



For illustrative purposes only. Graph includes future data, from the period 2022-2030.

Sources available upon request. **Please note that all performance figures are showing net data.** Past performance is not indicative of future performance and when you invest in ETFs, your capital is at risk. When you invest in ETFs your capital is at risk.

SKYY Top Contributors – October 2022:

HOLDINGS	% Average Weight	Total Return (%)	Contribution to Return (%)
DIGITAL CHINA GROUP CO LTD-A	1.9	62.7	1.0
EXTREME NETWORKS INC	2.4	37.3	0.8
NUTANIX INC - A	2.4	31.5	0.7
ORACLE CORP	1.5	28.5	0.4
KINGSOFT CLOUD HOLDINGS-ADR	0.8	27.1	0.2
RACKSPACE TECHNOLOGY INC	1.0	26.2	0.2
SANGFOR TECHNOLOGIES INC-A	1.5	22.7	0.4
8X8 INC	1.0	22.6	0.2
INTAPP INC	1.9	20.3	0.4
HEWLETT PACKARD ENTERPRISE	1.5	19.1	0.3
JUNIPER NETWORKS INC	1.5	17.2	0.3
TENABLE HOLDINGS INC	1.0	16.8	0.2
INTL BUSINESS MACHINES CORP	1.4	16.4	0.2
ADOBE INC	1.2	15.7	0.2

CISCO SYSTEMS INC	1.5	14.6	0.2
INFORMATION SERVICES GROUP	1.1	14.1	0.2
DELL TECHNOLOGIES -C	1.3	13.5	0.2
ZOOM VIDEO COMMUNICATIONS	1.0	13.4	0.1
CONFLUENT INC-CLASS A	1.4	13.1	0.2
SALESFORCE INC	1.4	13.0	0.2

Cloud Technology Performance

As of 31.10.2022

	1M	3M	6M	YTD	12M	2Y	3Y	SI
HAN-GINS Cloud Technology UCITS ETF	6.80%	-7.50%	-17.88%	-36.05%	-36.85%	-19.75%	-2.50%	7.98%
<i>Solactive Cloud Technology Index (NTR)</i>	6.84%	-7.39%	-17.73%	-35.81%	-36.59%	-19.58%	-1.74%	9.36%

Please note that all performance figures are showing net data. Source: Bloomberg / HANetf. Data as of 31/10/2022
Performance before inception is based on back tested data. Back testing is the process of evaluating an investment strategy by applying it to historical data to simulate what the performance of such strategy would have been. Back tested data does not represent actual performance and should not be interpreted as an indication of actual or future performance. Past performance for the index is in USD. Past performance is not an indicator for future results and should not be the sole factor of consideration when selecting a product. Investors should read the prospectus of the Issuer ("Prospectus") before investing and should refer to the section of the Prospectus entitled 'Risk Factors' for further details of risks associated with an investment in this product. When you invest in ETFs and ETCs, your capital is at risk.

Product Details

HAN-GINS Cloud Technology UCITS ETF, is a UCITS compliant cloud computing ETF domiciled in Ireland.

The SKYY Cloud ETF tracks the Solactive Cloud Technology Index and seeks to provide exposure to companies active in the field of cloud computing, such as service providers or producers of equipment or software focused on cloud computing.

Please remember that the value of your investment may go down as well as up and past performance is no indication of future performance.

Visit the [SKYY Fund Page](#) for more information.

Exchange	BBG Code	RIC	ISIN	Valoren	SEDOL	Currency	TER
London Stock Exchange	SKYY LN	SKYY.L	IE00BDDRF924	-	BYVJ8T8	USD	0.59%
London Stock Exchange	SKYP LN	SKYP.L	IE00BDDRF924	-	BYVJ973	GBP	0.59%
Borsa Italiana	SKYY IM	SKYY.MI	IE00BDDRF924	-	BFX1CC0	EUR	0.59%
Deutsche Boerse Xetra	5XYE GY	5XYE.DE	IE00BDDRF924	-	BFX38L7	EUR	0.59%
SIX Swiss Exchange	SKYY SW	SKYY.S	IE00BDDRF924	44096882	BMYC3V7	CHF	0.59%



Anthony Ginsberg, GinsGlobal Index Funds

Anthony Ginsberg is the co-creator of the HAN-GINS Cloud Technology UCITS ETF (SKYY), enabling investors to gain exposure to the top 50 cloud companies across Developed and Emerging markets. SKYY tracks a rules-based index to identify and select companies involved in the field of cloud computing.

Anthony Ginsberg is the Managing Director of GinsGlobal Investment Management, a global asset management company offering a broad range of innovative index-linked products, for both retail and institutional investors. GinsGlobal designs index products for a number of leading financial institutions, including global insurers, banks and asset managers. GinsGlobal was founded in 2000 and has operations in North America, Africa, Middle East and Asia-Pacific.

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- HANetf ICAV, an open-ended Irish collective asset management vehicle issuing under the terms in the Prospectus and relevant Supplement for the ETF approved by the Central Bank of Ireland (“CBI”) (“ETF Prospectus”) is the issuer of the ETFs. Investors should read the current version of the ETF Prospectus before investing and should refer to the section of the ETF Prospectus entitled ‘Risk Factors’ for further details of risks associated with an investment in the ETFs. Any decision to invest should be based on the information contained in the ETF Prospectus.
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 - the carbon securities ETCs under the terms in the base prospectus approved by the UK Financial Conduct Authority (“FCA”) and the relevant final terms of the carbon securities (together, “FCA Carbon ETC Prospectus”); and
 - the carbon securities ETCs under the terms in the base prospectus approved by the Central Bank of Ireland (“CBI”) and the final terms of the carbon securities (together, “CBI Carbon ETC Prospectus”).

Investors should read the latest versions of the relevant ETC prospectus before investing and should refer to the section of the relevant ETC prospectus entitled ‘Risk Factors’ for further details of risks associated with an

investment in the ETCs. Any decision to invest should be based on the information contained in the relevant ETC prospectus.

3. ETC Issuance GmbH, a limited liability company incorporated under the laws of the Federal Republic of Germany, issuing under the terms in the Prospectus approved by the Bundesanstalt für Finanzdienstleistungsaufsicht ("BaFin") and the final terms ("Cryptocurrency Prospectus") is the issuer of the ETCM ETCs. Investors should read the latest version of the Cryptocurrency Prospectus before investing and should refer to the section of the Cryptocurrency Prospectus entitled 'Risk Factors' for further details of risks associated with an investment in the ETCs contained in the Cryptocurrency Prospectus. Any decision to invest should be based on the information contained in the Cryptocurrency Prospectus.

The ETF Prospectus, Metals ETC Prospectus, FCA Carbon ETC Prospectus, CBI Carbon ETC Prospectus and Cryptocurrency Prospectus can all be downloaded from www.hanetf.com.

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