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First Trust AlphaDEX™ U.S. Technology Sector Index  
ETF • FHQ, FHQ.F

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Annual Management Report of Fund Performance  
December 31, 2020

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**ANNUAL MANAGEMENT REPORT OF FUND PERFORMANCE**  
**December 31, 2020**

**First Trust AlphaDEX™ U.S. Technology Sector Index ETF**  
**(the “First Trust ETF”)**

This annual management report of fund performance contains financial highlights, but does not contain the complete audited annual financial statements of the First Trust ETF. All references to dollars contained herein are to Canadian dollars.

Securityholders may also contact us to request a copy of the First Trust ETF’s proxy voting policies and procedures, proxy voting disclosure record, or quarterly portfolio disclosures relating to the First Trust ETF by calling 1-877-622-5552, by writing to us at FT Portfolios Canada Co., 40 King Street West, Suite 5102, Scotia Plaza, Box 312, Toronto, Ontario M5H 3Y2 or by visiting our website at [www.firsttrust.ca](http://www.firsttrust.ca) or SEDAR at [www.sedar.com](http://www.sedar.com).

**Forward-looking Statements**

This document may contain forward-looking statements relating to anticipated future events, results, circumstances, performance or expectations that are not historical facts but instead represent beliefs regarding future events. By their nature, forward-looking statements are based on assumptions and are subject to inherent risks and uncertainties. There is significant risk that forward-looking statements will not prove to be accurate. Readers of this document should not place undue reliance on forward-looking statements as a number of factors could cause actual future results, conditions, actions or events to differ materially from the expectations, estimates or intentions expressed or implied in the forward-looking statements. These factors include but are not limited to market and general economic conditions, interest rates, foreign currency exchange rates, the extent of industry sector exposure, the performance of the securities of the issuers held in the portfolio and regulatory developments and the risks detailed in the First Trust ETF’s prospectus. The Manager does not undertake and specifically disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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# First Trust AlphaDEX™ U.S. Technology Sector Index ETF

## Management Report of Fund Performance

### For the year ended December 31, 2020

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#### **Investment Objective and Strategy**

The fundamental investment objective of **First Trust AlphaDEX™ U.S. Technology Sector Index ETF** (the “First Trust ETF”) is to replicate, to the extent possible, the performance of the StrataQuant® Technology Index (“Index”), net of expenses.

The investment strategy of the First Trust ETF is to invest in and hold the constituent securities of the Index in the same proportion as they are reflected in the Index or securities intended to replicate the performance of such Index. The Index results from applying the AlphaDEX™ methodology to the Russell 1000® Index, a market index representing the large and mid-capitalization segment of the U.S. equity universe, and then selecting the constituent securities for the Index from those qualifying stocks included in the Technology Sector.

The Manager may use a sampling methodology in selecting investments for the First Trust ETF. As an alternative or in conjunction with investing in and holding constituent securities, the First Trust ETF may also invest in other securities to obtain exposure to the constituent securities of the applicable Index in a manner that is consistent with the investment objective and investment strategy of the First Trust ETF.

In this case, the First Trust ETF may also obtain exposure to the applicable Index by holding securities of a US-listed index ETF, First Trust Technology AlphaDEX® Fund (NYSE Arca ticker: FXL), of an affiliate of the Manager, which replicates or substantially replicates the applicable Index.

#### **Risk**

The risks associated with an investment in the First Trust ETF remain as discussed in the First Trust ETF’s most recent prospectus. There have been no significant changes during the period that affected the overall level of risk associated with the First Trust ETF. The First Trust ETF provides exposure to the technology sector of the U.S. equity market in either a non-U.S. currency hedged and U.S. currency hedged manner.

#### **Results of Operations**

##### **General**

The First Trust ETF’s total net asset value as of December 31, 2020, was \$64,777,153 or \$68.80 per Unit (“FHQ”) and \$41.97 per Hedged Unit (“FHQ.F”). The First Trust ETF’s total net asset value as of December 31, 2019, was \$37,220,337 or \$45.91 per FHQ and \$27.90 per FHQ.F.

For the year ended December 31, 2020, the First Trust ETF paid total cash distributions per unit of \$0.0400 for FHQ and \$0.0250 for FHQ.F. In addition, the First Trust ETF declared cash distributions per unit of \$0.2940 for FHQ and \$0.1390 for FHQ.F for record date of December 31, 2020 with payment date of January 8, 2021. The First Trust ETF also made total notional distributions per unit of \$5.5777 for FHQ and \$2.7027 for FHQ.F for the year ended December 31, 2020. These amounts were reinvested in the First Trust ETF and not paid in cash to unitholders.

##### **Investment Performance**

For the year ended December 31, 2020, FHQ returned 50.51% compared to the Russell 1000® Technology Index (CAD) (the “benchmark”) total return of 44.13% while FHQ.F returned 50.95% compared to the Russell 1000® Technology Index (USD) (the “hedged benchmark”) total return of 46.70%. Unlike the benchmark and the hedged benchmark, the First Trust ETF’s returns are net of fees and expenses.

As of December 31, 2020, the Technology sector accounted for 27.29% of the weight of the Russell 1000® Index. The benchmark outperformed the Russell 1000® Index (CAD) which returned 18.84%. The hedged benchmark outperformed the Russell 1000® Index (USD) which returned 20.96%.

The portfolio held 100 equity securities as of December 31, 2020. The top ten equity holdings accounted for 19.61% of the portfolio. The AlphaDEX™ stock selection process is a rules-based process and can result in industry weightings that differ from that of the benchmark and the hedged benchmark.

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# First Trust AlphaDEX™ U.S. Technology Sector Index ETF

## Management Report of Fund Performance

### For the year ended December 31, 2020

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The First Trust ETF outperformed during the year due to stock selection and industry allocation. Strong selection within the Software and Computer Services industry, particularly within the Software sub-industry, improved relative returns. Four of the five top contributors to return came from the Software sub-industry. Poor selection within the Technology Hardware and Equipment industry partially offset fund outperformance and can mostly be attributed to a significant underweight position in Apple, Inc. which outperformed the benchmark during the year.

FHQ underperformed FHQ.F during the year because of its exposure to the U.S. dollar, which depreciated 2.04% against the Canadian dollar from December 31, 2019, to December 31, 2020. FHQ.F is not exposed to movements in the U.S. dollar.

The top five stocks by contribution to return were Cerence Inc, DocuSign, Inc., Coupa Software, Inc., Zscaler, Inc. and MongoDB, Inc. Class A. The bottom five stocks by contribution to return were Sabre Corp., Hewlett Packard Enterprise Co., Universal Display Corporation, and DXC Technology Co., and Zoom Video Communications, Inc. Class A.

#### ***Recent Developments***

The Russell 1000® Index gained 20.96% in 2020, including dividends, to close the year at a record high despite a 35% drawdown in the first quarter as it became clear the COVID-19 pandemic would cause significant disruptions to the U.S. economy. The U.S. dollar depreciated relative to the Canadian dollar in 2020, meaning the index gained 18.84% over the same year measured in Canadian dollars. Broad shutdowns of the U.S. economy caused the U.S. unemployment rate to rise from a 50-year low of 3.5% in February to a record high of 14.8% in April. Between March and April, the U.S. economy lost over 22 million jobs. However, over 12 million of those were recovered in the remaining 8 months of the year, bringing the unemployment rate back down to 6.7% in December. The rapid deterioration in economic conditions was met with swift action by the U.S. Federal Reserve, which cut interest rates to near zero in March and took unprecedented steps to keep liquidity flowing in the U.S. economy. The yield on the U.S. 10-Year Treasury fell to near 0.50%, which along with government stimulus contributed to the rally in U.S. stocks during the year. Vaccine rollouts towards the end of the year contributed to a rally in U.S. stocks in the fourth quarter, particularly cyclical stocks like financial and energy companies. The Russell 1000® Index finished the year trading at a P/E multiple of 31.5, compared to 22.2 at the end of 2019, with a dividend yield of 1.50%.

The Technology sector was the best-performing sector in the Russell 1000® Index during the year and significantly outperformed the broader index. It benefitted from an accelerated shift in economic activity towards information technology caused by the COVID-19 pandemic. The positive impact on the sector was broad-based, with most industries outperforming the Russell 1000® Index during the year.

#### **Related Party Transactions**

FT Portfolios Canada Co. is the Manager of the First Trust ETF and is a Canadian affiliate of First Trust Advisors L.P., the investment advisor (the "Advisor") of the First Trust ETF.

Pursuant to terms of the declaration of trust of the First Trust ETF, the Manager provides or arranges for all management, administrative and other services required by the First Trust ETF. The Manager receives a management fee from the First Trust ETF. For further details, please see "Management Fees".

The Manager has retained the Advisor to provide certain services to the First Trust ETF pursuant to an investment advisory agreement. The Advisor receives advisory fees from the Manager out of the management fee.

# First Trust AlphaDEX™ U.S. Technology Sector Index ETF

## Management Report of Fund Performance

### For the year ended December 31, 2020

#### Financial Highlights

The following tables show selected key financial information about the First Trust ETF and are intended to help you understand the First Trust ETF's financial performance for the past five years for FHQ and past three years for FHQ.F. This information is derived from the First Trust ETF's current audited annual financial statements.

#### Net Asset Value per Unit

| FHQ  | Dec. 31,<br>2020 | Dec. 31,<br>2019 | Dec. 31,<br>2018 | Dec. 31,<br>2017 | Dec. 31,<br>2016 |
|--|------------------|------------------|------------------|------------------|------------------|
| Net asset value, beginning of year <sup>(1)</sup>        | \$45.91          | \$35.12          | \$31.89          | \$25.39          | \$23.09          |
| Increase (Decrease) from operations:                     |                  |                  |                  |                  |                  |
| Total revenue  | 0.74             | 0.40             | 0.32             | 0.37             | 0.45             |
| Total expenses   | (0.49)           | (0.40)           | (0.34)           | (0.28)           | (0.26)           |
| Realized gains (losses) for the year                     | 10.80            | 6.57             | 4.56             | 3.21             | 0.66             |
| Unrealized gains (losses) for the year                   | 13.65            | 4.31             | (2.82)           | 3.08             | 2.25             |
| Total increase (decrease) from operations <sup>(2)</sup> | \$24.70          | \$10.88          | \$1.72           | \$6.38           | \$3.10           |
| Distributions:   |                  |                  |                  |                  |                  |
| From income (excluding dividends)                        | (0.31)           | (0.01)           | -                | (0.06)           | (0.16)           |
| From dividends   | -                | -                | -                | -                | -                |
| From capital gains                                       | (5.56)           | (4.38)           | (3.54)           | (0.36)           | -                |
| Return of capital  | -                | -                | -                | -                | (0.15)           |
| Total annual distributions <sup>(3)</sup>                | \$(5.87)         | \$(4.39)         | \$(3.54)         | \$(0.42)         | \$(0.31)         |
| Net asset value, end of year <sup>(4)</sup>              | \$68.80          | \$45.91          | \$35.12          | \$31.89          | \$25.39          |

| FHQ.F  | Dec. 31,<br>2020 | Dec. 31,<br>2019 | Dec. 31,<br>2018 | Dec. 31,<br>2017 <sup>(a)</sup> |
|--|------------------|------------------|------------------|---------------------------------|
| Net asset value, beginning of period/year <sup>(1)</sup> | \$27.90          | \$20.56          | \$20.49          | \$20.00 <sup>(b)</sup>          |
| Increase (Decrease) from operations:                     |                  |                  |                  |                                 |
| Total revenue  | 0.49             | 0.25             | 0.30             | -                               |
| Total expenses   | (0.29)           | (0.24)           | (0.22)           | (0.02)                          |
| Realized gains (losses) for the period/year              | 7.81             | 4.32             | 0.31             | 0.71                            |
| Unrealized gains (losses) for the period/year            | 7.71             | 2.78             | (4.76)           | (0.20)                          |
| Total increase (decrease) from operations <sup>(2)</sup> | \$15.72          | \$7.11           | \$(4.37)         | \$0.49                          |
| Distributions:   |                  |                  |                  |                                 |
| From income (excluding dividends)                        | (0.17)           | (0.01)           | -                | -                               |
| From dividends   | -                | -                | -                | -                               |
| From capital gains                                       | (2.67)           | (2.64)           | (0.16)           | (0.05)                          |
| Return of capital  | -                | -                | -                | -                               |
| Total annual distributions <sup>(3)</sup>                | \$(2.84)         | \$(2.65)         | \$(0.16)         | \$(0.05)                        |
| Net asset value, end of period/year <sup>(4)</sup>       | \$41.97          | \$27.90          | \$20.56          | \$20.49                         |

(a) FHQ.F: December 31, 2017 does not relate to the full year as FHQ.F commenced operations on December 8, 2017.

(b) Seed capital

(1) This information is provided as at December 31 of the period/years shown and is prepared under IFRS.

(2) Net asset value and distributions are based on the actual number of units outstanding at the relevant time. The increase/decrease from operations is based on the weighted average number of units outstanding over the period/year.

(3) Distributions were paid in cash or reinvested in additional units of the First Trust ETF, or both. Non-cash distributions are reinvested in additional units of the First Trust ETF and subsequently consolidated. Neither the number of units held by the unitholder, nor the net asset per unit of the First Trust ETF change as a result of any non-cash distributions.

(4) This table is not intended to be a reconciliation of beginning to ending net asset value per unit.

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**Ratios and Supplemental Data**

| FHQ  | Dec. 31,<br>2020 | Dec. 31,<br>2019 | Dec. 31,<br>2018 | Dec. 31,<br>2017 | Dec. 31,<br>2016 |
|--|------------------|------------------|------------------|------------------|------------------|
| Net asset value (000's)                                  | \$58,481         | \$34,431         | \$35,122         | \$25,513         | \$8,886          |
| Number of units outstanding                              | 850,000          | 750,000          | 1,000,000        | 800,000          | 350,000          |
| Management expense ratio <sup>(1)</sup>                  | 0.77%            | 0.78%            | 0.77%            | 0.77%            | 0.77%            |
| Management expense ratio<br>before waivers or absorption | 0.79%            | 0.80%            | 0.79%            | 0.79%            | 0.79%            |
| Trading expense ratio <sup>(2)</sup>                     | 0.04%            | 0.04%            | 0.04%            | 0.04%            | 0.07%            |
| Portfolio turnover rate <sup>(3)</sup>                   | 146.18%          | 179.99%          | 158.63%          | 175.25%          | 139.89%          |
| Net asset value per unit                                 | \$68.80          | \$45.91          | \$35.12          | \$31.89          | \$25.39          |

| FHQ.F  | Dec. 31,<br>2020 | Dec. 31,<br>2019 | Dec. 31,<br>2018 | Dec. 31,<br>2017 |
|--|------------------|------------------|------------------|------------------|
| Net asset value (000's)                                  | \$6,296          | \$2,790          | \$6,169          | \$1,024          |
| Number of units outstanding                              | 150,000          | 100,000          | 300,000          | 50,000           |
| Management expense ratio <sup>(1)</sup>                  | 0.77%            | 0.79%            | 0.79%            | 0.73%            |
| Management expense ratio<br>before waivers or absorption | 0.79%            | 0.81%            | 0.80%            | 1.00%            |
| Trading expense ratio <sup>(2)</sup>                     | 0.04%            | 0.04%            | 0.04%            | 0.04%            |
| Portfolio turnover rate <sup>(3)</sup>                   | 146.18%          | 179.99%          | 158.63%          | 175.25%          |
| Net asset value per unit                                 | \$41.97          | \$27.90          | \$20.56          | \$20.49          |

(1) Management expense ratio is based on total expenses (excluding commissions and other portfolio transaction costs) for the stated period/year and is expressed as an annualized percentage of daily average net asset value during the period/year.

(2) The trading expense ratio represents total commissions and other portfolio transaction costs expressed as an annualized percentage of daily average net asset value during the period/year.

(3) The First Trust ETF's portfolio turnover rate indicates how actively the First Trust ETF's portfolio advisor manages its portfolio investments. A portfolio turnover rate of 100% is equivalent to the First Trust ETF buying and selling all of the securities in its portfolio once in the course of the period/year. The higher a First Trust ETF's portfolio turnover rate in a period/year, the greater the trading cost payable by the First Trust ETF in the period/year, and the greater the chance of an investor receiving taxable capital gains in the period/year. There is not necessarily a relationship between high turnover rate and the performance of a First Trust ETF.

**Management Fees**

The First Trust ETF will pay the Manager a management fee of 0.70% based on the average daily NAV of the First Trust ETF. The management fee, plus applicable taxes including HST, will be accrued daily and paid monthly in arrears. The Manager may, from time to time in its discretion, waive all or a portion of the management fee charged at any given time.

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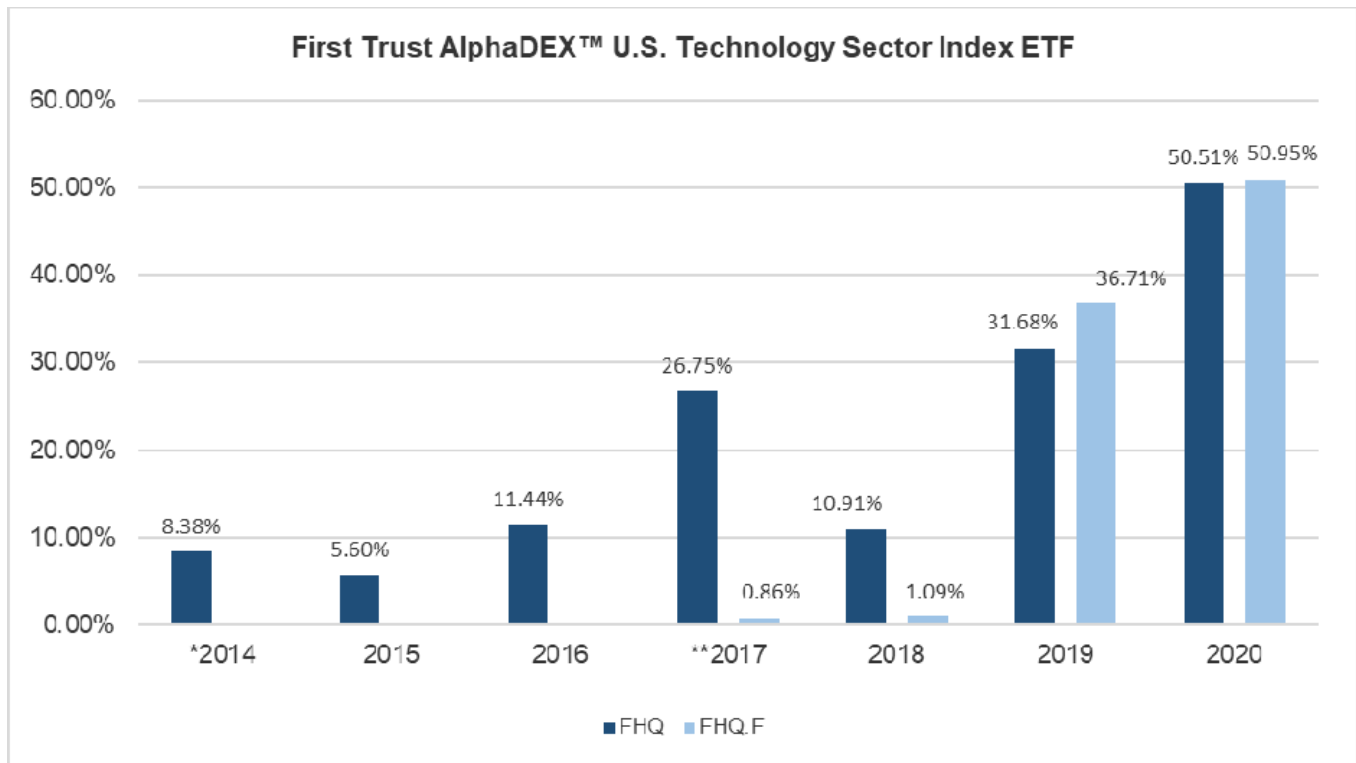
**Past Performance**

**General**

The past performance information shown assumes that all distributions made by the First Trust ETF in the periods/years shown were reinvested in additional securities of the First Trust ETF. The performance information does not take into account sales, redemption, distribution or other optional charges that would have reduced returns or performance. How the First Trust ETF has performed in the past does not necessarily indicate how it will perform in the future.

**Year by Year Returns**

The bar chart below shows the First Trust ETF's performance, per class, for the years ended December 31, for the period from commencement of operations to December 31, 2017 for FHQ.F, and for the period from commencement of operations to December 31, 2014 for FHQ and illustrates how the investment fund's performance has changed from year to year. The chart also shows, in percentage terms, how much an investment made on the first day of each financial year would have grown or decreased by the last day of each financial year.



\*FHQ Commencement: October 30, 2014

\*\*FHQ.F Commencement: December 8, 2017



# First Trust AlphaDEX™ U.S. Technology Sector Index ETF

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#### **Annual Compound Returns**

The table below shows the First Trust ETF's annual compound total return since inception and for the years ended December 31, 2020. The annual compound return is compared to the returns of the relevant benchmarks and reference index; however, the First Trust ETF's return is net of fees and expenses. See Results of Operations section of this report for further information regarding the current year performance of the First Trust ETF relative to the benchmark/index.

|  | 1-year | 3-year | 5-year | Since Inception |
|--|--------|--------|--------|-----------------|
| First Trust AlphaDEX™ U.S. Technology Sector Index ETF – FHQ   | 50.51% | 29.94% | 25.38% | 22.76%          |
| Russell 1000® Technology Index                                 | 44.13% | 29.45% | 25.31% | 26.19%          |
| Russell 1000® Index  | 18.84% | 15.46% | 13.61% | 15.88%          |
| S&P 500 Information Technology Index                           | 41.37% | 29.91% | 25.60% | 26.94%          |
| StrataQuant® Technology Index*                                 | 52.16% | 31.45% | 26.61% | 26.37%          |
| First Trust AlphaDEX™ U.S. Technology Sector Index ETF – FHQ.F | 50.95% | 27.70% | N/A    | 27.39%          |
| Russell 1000® Technology Index USD                             | 46.70% | 28.73% | N/A    | 28.42%          |
| Russell 1000® Index USD  | 20.96% | 14.82% | N/A    | 15.04%          |
| S&P 500 Information Technology Index USD                       | 43.89% | 29.19% | N/A    | 28.87%          |
| StrataQuant® Technology Index USD*                             | 55.23% | 30.76% | N/A    | 30.45%          |

*The Russell 1000® Technology Index is an unmanaged index which includes the stocks in the technology sector of the Russell 1000® Index.*

*The Russell 1000® Index consists of the largest 1000 companies in the Russell 3000 Index. It represents the universe of large capitalization stocks from which most active money managers typically select.*

*The S&P 500 Information Technology Index is an unmanaged index which includes the stocks in the information technology sector of the S&P 500 Index.*

*\*Reference Index: StrataQuant® Technology Index is an "enhanced" index developed, maintained and sponsored by ICE Data Indices, LLC or its affiliates ("IDI") which employs the AlphaDEX® stock selection methodology to select stocks from the Russell 1000® Index.*

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**Summary of Investment Portfolio**

The table sets out the percentage (based on total net asset value) of the First Trust ETF's top 25 holdings as at December 31, 2020. This summary of portfolio holdings may change due to ongoing portfolio transactions of the First Trust ETF. Daily and quarterly updates are available at [www.firsttrust.ca](http://www.firsttrust.ca).

| Top 25 Holdings                      | % of ETF Total Net Asset Value |
|--------------------------------------|--------------------------------|
| NCR Corp.                            | 2.29%                          |
| Micron Technology Inc.               | 2.17%                          |
| Pinterest Inc., Class 'A'            | 2.15%                          |
| CrowdStrike Holdings Inc., Class 'A' | 2.09%                          |
| CloudFlare Inc., Class 'A'           | 2.00%                          |
| Zscaler Inc.                         | 1.92%                          |
| Twilio Inc.                          | 1.85%                          |
| HubSpot Inc.                         | 1.83%                          |
| Xerox Holdings Corp.                 | 1.67%                          |
| Globant SA                           | 1.64%                          |
| Anaplan Inc.                         | 1.55%                          |
| Apple Inc.                           | 1.55%                          |
| Advanced Micro Devices Inc.          | 1.51%                          |
| EPAM Systems Inc.                    | 1.50%                          |
| SYNNEX Corp.                         | 1.50%                          |
| Zendesk Inc.                         | 1.50%                          |
| Elastic NV                           | 1.47%                          |
| Dell Technologies Inc., Class 'C'    | 1.46%                          |
| Five9 Inc.                           | 1.45%                          |
| Monolithic Power Systems Inc.        | 1.42%                          |
| DocuSign Inc.                        | 1.40%                          |
| Entergris Inc.                       | 1.40%                          |
| Hewlett Packard Enterprise Co.       | 1.37%                          |
| Amdocs Ltd.                          | 1.34%                          |
| Jabil Inc.                           | 1.34%                          |
| <b>Total</b>                         | <b>41.37%</b>                  |

**Portfolio Breakdown**

The table sets out the percentage (based on total net asset value) of the First Trust ETF's portfolio, by industry, as at December 31, 2020.

| Industry Weightings               | % of ETF Total Net Asset Value |
|-----------------------------------|--------------------------------|
| Software and Computer Services    | 69.22%                         |
| Technology Hardware and Equipment | 30.50%                         |
| Cash and Cash Equivalents         | 0.52%                          |
| Other Assets, Less Liabilities    | -0.24%                         |
| <b>Total</b>                      | <b>100.00%</b>                 |

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[www.firsttrust.ca](http://www.firsttrust.ca)