I solved the environment with the following algorithm executed from the command line:

python -m spinup.run ppo --exp\_name LunarLander43 --env LunarLander-v2 --clip\_ratio 0.2 --hid "[128,64]" --gamma 0.999 --vf\_lr 0.0024 --seed 20 --epochs 50 --pi\_lr 0.0002 --data\_dir /Users/brianhaney/Desktop/MoonLander/Experiments --dt

Subsequently, I tested the policy:

python -m spinup.run test\_policy /Users/brianhaney/Desktop/MoonLander/Experiments/2018-11-22\_LunarLander43/2018-11-22\_15-00-31-LunarLander43\_s20 -n 100 -nr

And the following results were returned:

/anaconda3/lib/python3.6/importlib/\_bootstrap.py:219: RuntimeWarning: compiletime version 3.5 of module 'tensorflow.python.framework.fast\_tensor\_util' does not match runtime version 3.6

return f(\*args, \*\*kwds)

/anaconda3/lib/python3.6/site-packages/h5py/\_\_init\_\_.py:36: FutureWarning: Conversion of the second argument of issubdtype from `float` to `np.floating` is deprecated. In future, it will be treated as `np.float64 == np.dtype(float).type`.

from .\_conv import register\_converters as \_register\_converters

/anaconda3/lib/python3.6/importlib/\_bootstrap.py:219: RuntimeWarning: compiletime version 3.5 of module 'tensorflow.python.framework.fast\_tensor\_util' does not match runtime version 3.6

return f(\*args, \*\*kwds)

/anaconda3/lib/python3.6/site-packages/h5py/\_\_init\_\_.py:36: FutureWarning: Conversion of the second argument of issubdtype from `float` to `np.floating` is deprecated. In future, it will be treated as `np.float64 == np.dtype(float).type`.

from .\_conv import register\_converters as \_register\_converters

2018-11-23 20:21:49.751639: I tensorflow/core/platform/cpu\_feature\_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2 FMA

Using default action op.

**Logging data to /tmp/experiments/1543022510/progress.txt**

Episode 0 EpRet 275.346 EpLen 538

Episode 1 EpRet 244.005 EpLen 626

Episode 2 EpRet 224.351 EpLen 572

Episode 3 EpRet 207.617 EpLen 708

Episode 4 EpRet 220.642 EpLen 521

Episode 5 EpRet 213.514 EpLen 709

Episode 6 EpRet 211.801 EpLen 728

Episode 7 EpRet 220.573 EpLen 454

Episode 8 EpRet 210.234 EpLen 524

Episode 9 EpRet 244.714 EpLen 609

Episode 10 EpRet 107.295 EpLen 1000

Episode 11 EpRet 221.437 EpLen 656

Episode 12 EpRet 226.305 EpLen 923

Episode 13 EpRet 199.421 EpLen 483

Episode 14 EpRet 44.245 EpLen 1000

Episode 15 EpRet 189.166 EpLen 558

Episode 16 EpRet 102.036 EpLen 1000

Episode 17 EpRet 240.339 EpLen 561

Episode 18 EpRet 207.348 EpLen 494

Episode 19 EpRet 188.782 EpLen 623

Episode 20 EpRet 240.567 EpLen 507

Episode 21 EpRet 190.266 EpLen 482

Episode 22 EpRet 207.898 EpLen 517

Episode 23 EpRet 184.958 EpLen 488

Episode 24 EpRet 221.387 EpLen 755

Episode 25 EpRet 207.094 EpLen 682

Episode 26 EpRet 239.950 EpLen 448

Episode 27 EpRet 209.909 EpLen 632

Episode 28 EpRet 274.164 EpLen 434

Episode 29 EpRet 221.215 EpLen 710

Episode 30 EpRet 250.491 EpLen 700

Episode 31 EpRet 221.643 EpLen 603

Episode 32 EpRet 238.146 EpLen 724

Episode 33 EpRet 238.369 EpLen 525

Episode 34 EpRet 263.438 EpLen 818

Episode 35 EpRet 257.948 EpLen 442

Episode 36 EpRet 211.078 EpLen 919

Episode 37 EpRet 217.848 EpLen 482

Episode 38 EpRet 217.826 EpLen 545

Episode 39 EpRet 222.702 EpLen 483

Episode 40 EpRet 194.993 EpLen 641

Episode 41 EpRet 205.168 EpLen 529

Episode 42 EpRet 219.296 EpLen 674

Episode 43 EpRet 260.781 EpLen 488

Episode 44 EpRet 240.745 EpLen 465

Episode 45 EpRet 191.866 EpLen 529

Episode 46 EpRet 244.116 EpLen 709

Episode 47 EpRet 252.709 EpLen 601

Episode 48 EpRet 239.148 EpLen 514

Episode 49 EpRet 223.686 EpLen 542

Episode 50 EpRet 70.791 EpLen 1000

Episode 51 EpRet 161.084 EpLen 594

Episode 52 EpRet 232.968 EpLen 536

Episode 53 EpRet 135.372 EpLen 673

Episode 54 EpRet 110.354 EpLen 1000

Episode 55 EpRet 134.873 EpLen 551

Episode 56 EpRet 228.307 EpLen 552

Episode 57 EpRet -0.086 EpLen 412

Episode 58 EpRet 216.584 EpLen 546

Episode 59 EpRet 232.054 EpLen 653

Episode 60 EpRet 211.022 EpLen 807

Episode 61 EpRet 237.964 EpLen 526

Episode 62 EpRet 235.344 EpLen 545

Episode 63 EpRet 239.866 EpLen 504

Episode 64 EpRet 188.054 EpLen 794

Episode 65 EpRet 250.034 EpLen 462

Episode 66 EpRet 201.611 EpLen 553

Episode 67 EpRet 231.182 EpLen 537

Episode 68 EpRet 208.038 EpLen 463

Episode 69 EpRet 238.622 EpLen 544

Episode 70 EpRet 199.985 EpLen 756

Episode 71 EpRet 92.523 EpLen 697

Episode 72 EpRet 233.222 EpLen 566

Episode 73 EpRet -18.460 EpLen 494

Episode 74 EpRet 244.159 EpLen 769

Episode 75 EpRet 211.336 EpLen 492

Episode 76 EpRet 237.421 EpLen 527

Episode 77 EpRet 185.453 EpLen 623

Episode 78 EpRet 62.939 EpLen 1000

Episode 79 EpRet 117.904 EpLen 1000

Episode 80 EpRet 123.821 EpLen 1000

Episode 81 EpRet 198.599 EpLen 665

Episode 82 EpRet 220.052 EpLen 682

Episode 83 EpRet 191.338 EpLen 504

Episode 84 EpRet 219.921 EpLen 518

Episode 85 EpRet 160.998 EpLen 527

Episode 86 EpRet 223.112 EpLen 543

Episode 87 EpRet 202.105 EpLen 479

Episode 88 EpRet 215.405 EpLen 554

Episode 89 EpRet 195.275 EpLen 491

Episode 90 EpRet 229.268 EpLen 962

Episode 91 EpRet 121.893 EpLen 766

Episode 92 EpRet 226.061 EpLen 663

Episode 93 EpRet 222.392 EpLen 679

Episode 94 EpRet 219.781 EpLen 608

Episode 95 EpRet 205.713 EpLen 508

Episode 96 EpRet 211.280 EpLen 646

Episode 97 EpRet 209.790 EpLen 565

Episode 98 EpRet 171.620 EpLen 512

Episode 99 EpRet 96.628 EpLen 1000

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| AverageEpRet | 200 |

| StdEpRet | 54.8 |

| MaxEpRet | 275 |

| MinEpRet | -18.5 |

| EpLen | 629 |

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