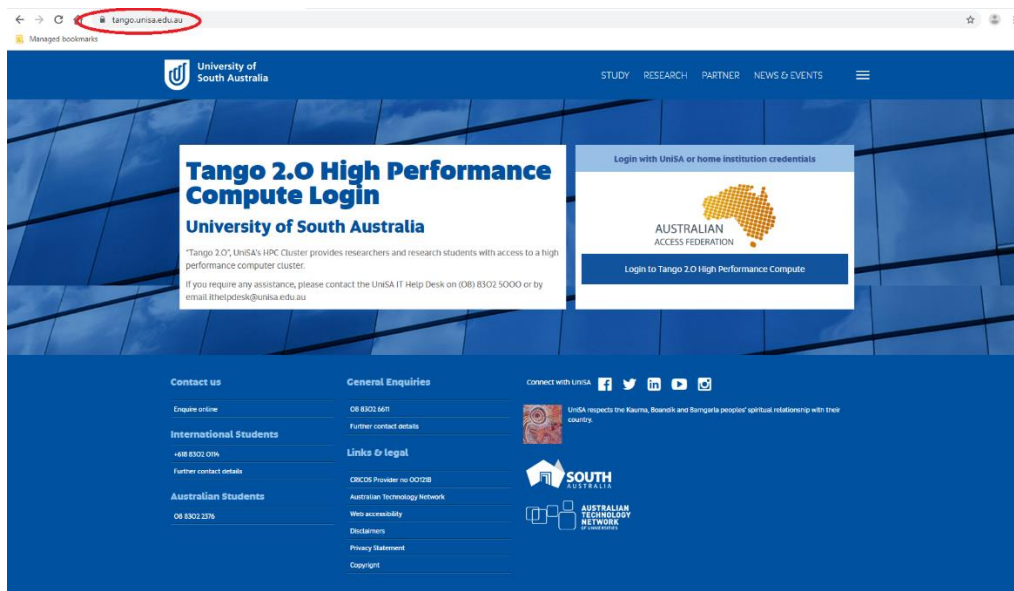


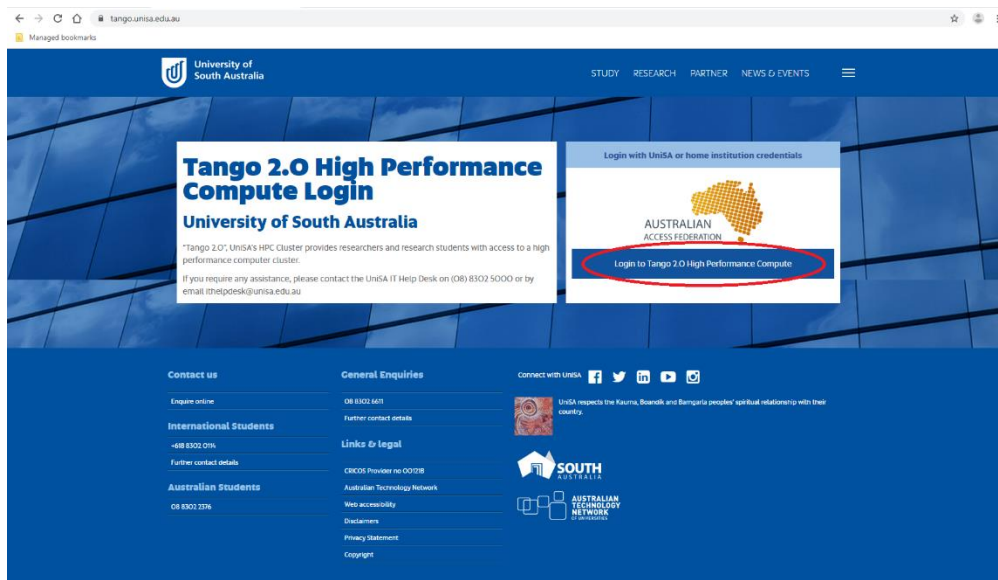
## Login To Tango 2.0

These instructions outline how to login to Tango 2.0– UniSA's HPC Cluster.

1. Open an Internet Browser and go to <https://tango.unisa.edu.au>



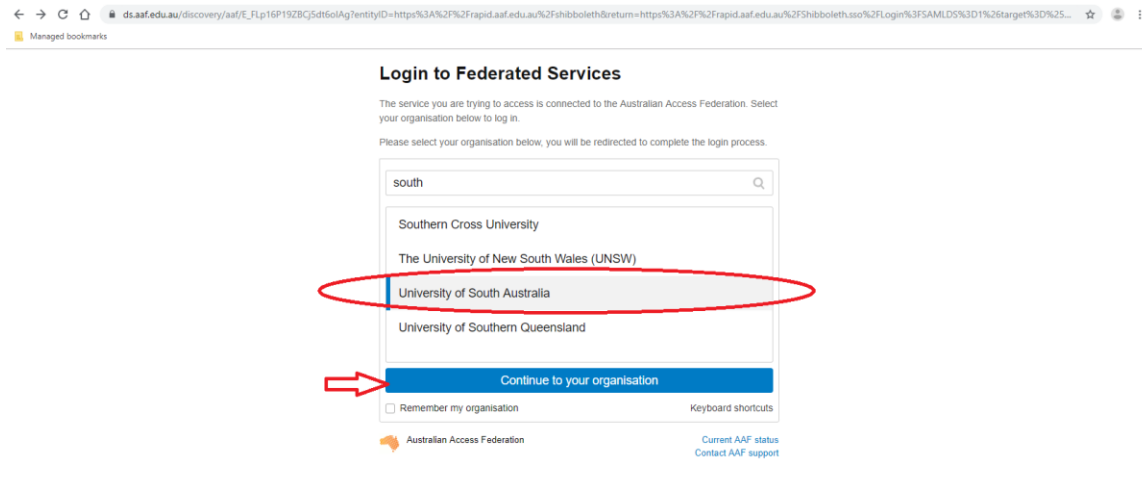
2. Click on **Login to Tango 2.0 High Performance Compute**



3. Select your organisation from the dropdown.

For example, if your organisation is UniSA then search for University of South Australia in the search tab.

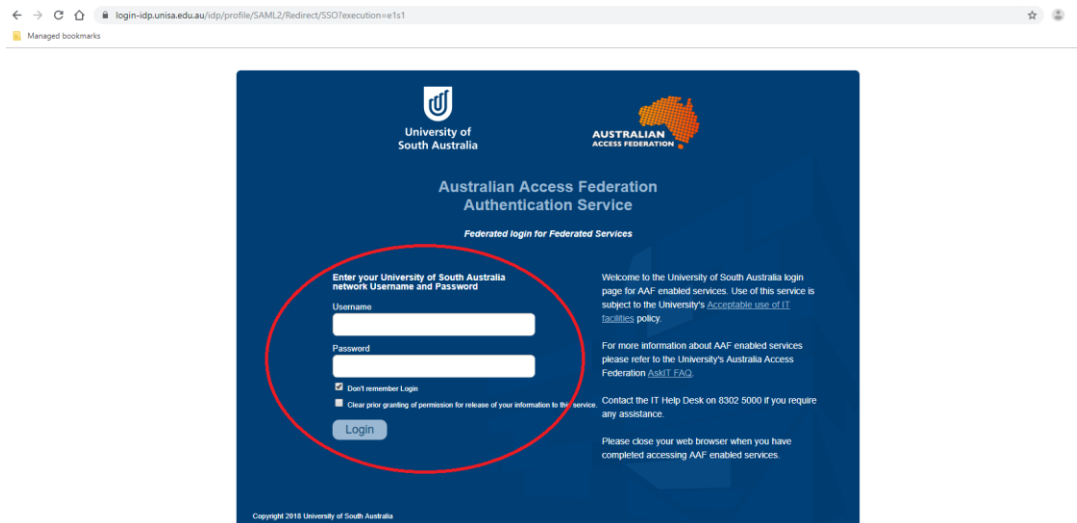
Click on Continue to your organisation



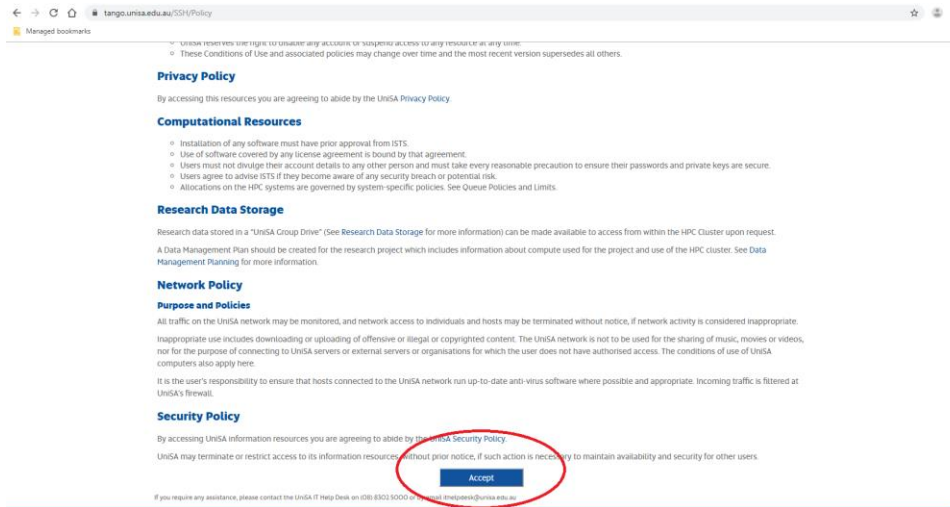
4. Enter your Username and Password for your organisation

For example, if your organisation is UniSA then the following screen will be shown. Enter your UniSA Username and Password.

Click on Login



5. Review the Tango 2.0 Acceptance of Use Policy and accept by clicking on Accept

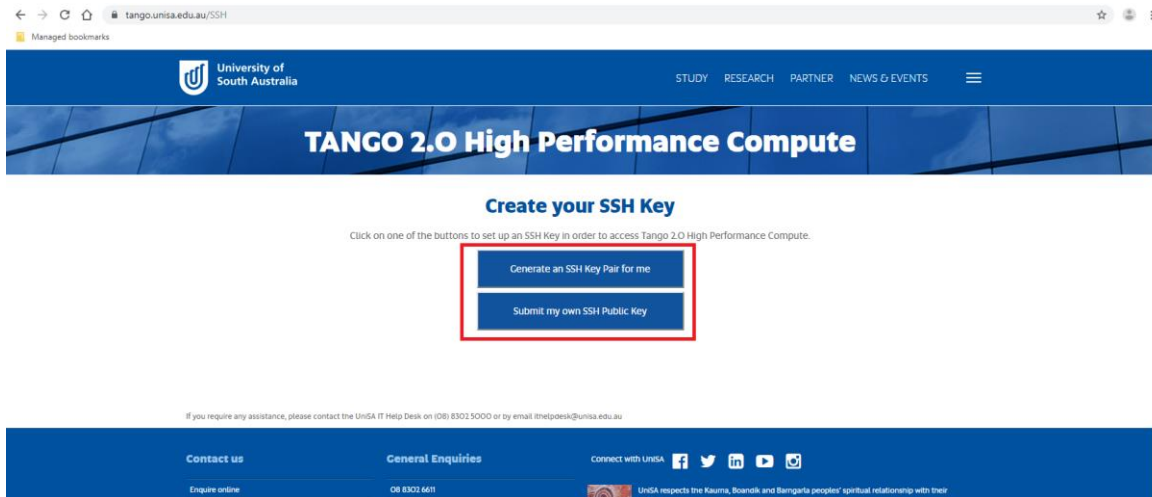


6. Click on Generate an SSH Key Pair for me to create SSH Key.

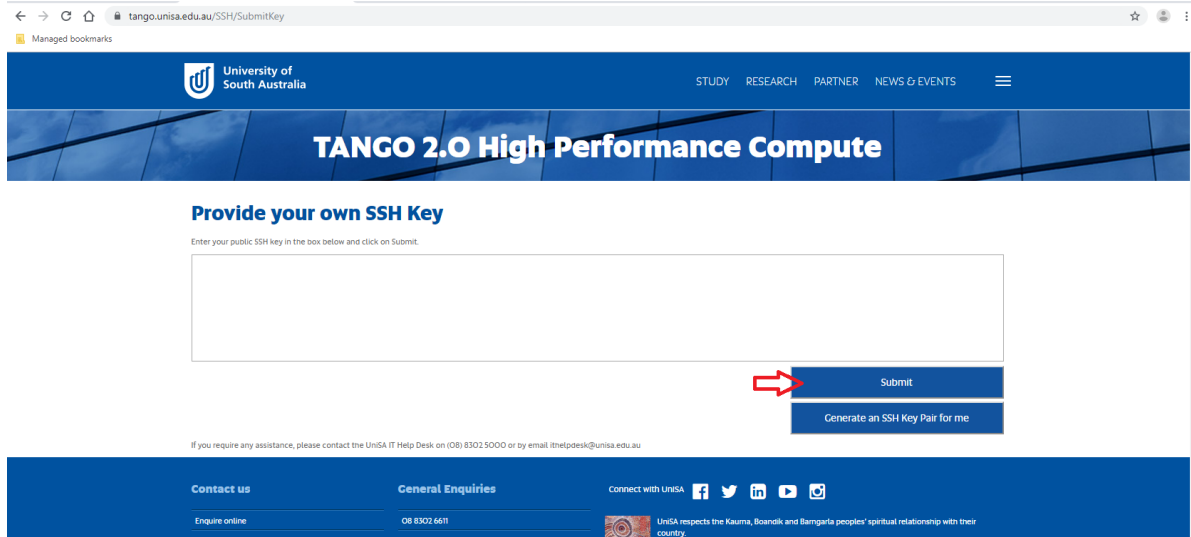
If you generate an SSH Key, a file will be downloaded onto your computer (tango-private-key.pem). **This is your private key and must be kept in a safe place. Do not delete/lose this private key file.**

**OR**

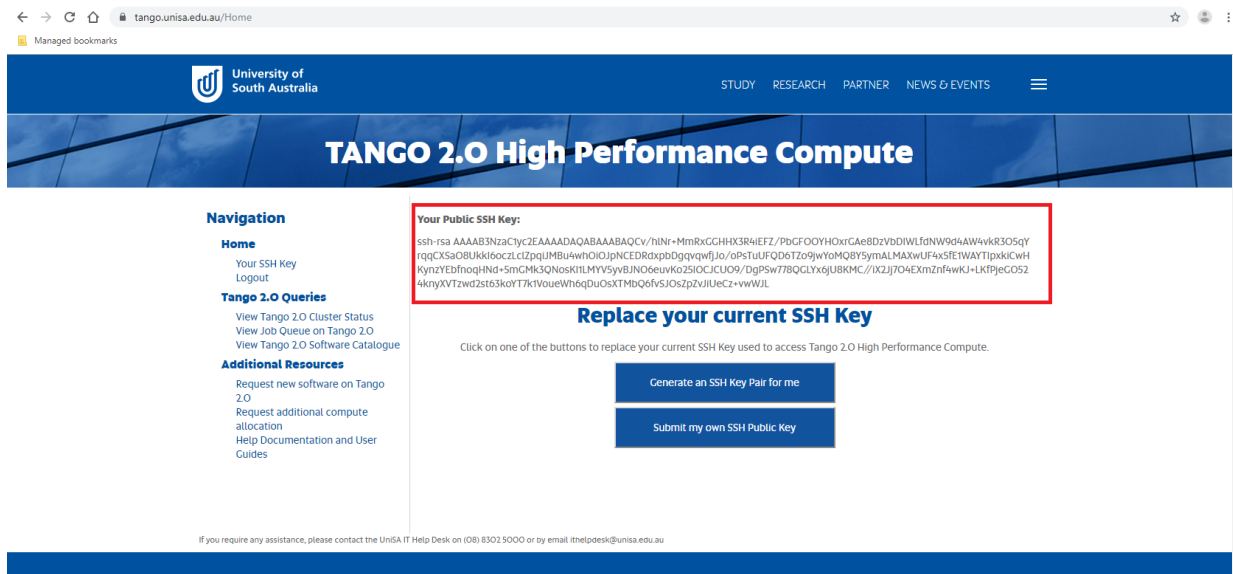
Click on Submit my own SSH Public Key if you have an existing SSH key you would like to use



7. If you choose to submit your own SSH Public Key, paste your SSH Public key into the text field and click submit



8. Your SSH key will be associated to your Tango 2.0 account. Your public key is displayed (We do not keep a copy of your private key). If you lose your private key, a replacement key can also be generated.



There are a number of options for you to choose from on the Navigation menu:

9. To view Tango 2.0 Cluster Status, click on View Tango Cluster Status

The screenshot shows the 'Tango 2.0 Cluster Status' page. The navigation menu on the left includes 'Home', 'Tango 2.0 Queries' (with 'View Tango 2.0 Cluster Status' highlighted), and 'Additional Resources'. The main content area features two donut charts: 'CPU Utilization' showing 392 cores in use, 420 available, and 0 unavailable; and 'Memory Utilization' showing 5691.09 GB in use, 99.23 GB available, and 0.01 GB unavailable. Below these charts is a visualization of individual nodes (itupi-hpc1 to itupi-hpc8) with their respective CPU and Memory usage.

10. To view Job Queue on Tango 2.0, click on View Job Queue on Tango

The screenshot shows the 'Job Queue on Tango 2.0 HPC' page. The navigation menu on the left includes 'Home', 'Tango 2.0 Queries' (with 'View Job Queue on Tango 2.0' highlighted), and 'Additional Resources'. The main content area features a table of job queue entries.

Job ID	Partition	User	Job Name	Job State	Running Time (secs)	Nodes	Node List
197525	Tango	rbrown	MPI Ping Pong	Completing	57:32	4	Tango 03-06
197628	Tango	rbrown	Linpack Benchmark	Running	34:18	4	Tango 07-10
197730	Tango	rbrown	Data Restructure	Running	15:52	3	Tango 12-14
197732	Tango	jmartin	MPI Hello World	Pending	00:00	6	Resources
197734	Tango	jmartin	Compile Task	Pending	00:00	12	Resources
197736	Tango	jmartin	Data Restructure	Pending	00:00	8	Resources

## 11. To view Tango 2.0 Software Catalogue, click on View Tango Software Catalogue

The screenshot shows the University of South Australia Tango 2.0 High Performance Compute website. The page features a navigation menu on the left with options like Home, Tango 2.0 Queries, and Additional Resources. The main content area is titled "Application Catalogue" and displays a grid of software applications categorized by letter (A-Z). The "View Tango 2.0 Software Catalogue" link in the navigation menu is highlighted with a red box. At the bottom, there are contact and social media links.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
abricate/0.9.3 any2fasta/0.4.2	bamttools/2.5.1 blast+/2.9.0 bob/1.2 boost/1.71.0 bcftools/1.9	cmake/3.15.2		ensembl-vep/97.3	freebayes/1.3.1 fastx_toolkit/0.0.14	gcc/6.3.0 gcc/9.1.0 gcc/7.4.0 gcc/8.3.0 gcta/1.26.0 gromacs/2019.3	hmmer/3.2.1 htslib/1.9	intel/2018.3	jellyfish/2.3.0 java/12	kraken/2.08-beta	lapack/3.8.0	matlab/R2019a mafft/7.4.29 matplotlib/3.1.1 mcl/4-137 muscle/3.8.3i metabat/2 miniconda/4.7.11	numpy/1.14.3	openmpi/4.0.1	python/3.6.1 python/3.7.4 pigz/2.4 pillow/6.1.0 plink/1.07 pycogent/1.9 pysam/0.15.3 pythonsrc/3.7.4	quast/5.0.2	r/3.6.1 rstudio/1.2.1335	slurm/18.08.8 spades/3.13.1 star/2.7.2a spss/26 samtools/1.9 trimmomatic/0.39

## 12. To submit a request for new software on Tango 2.0 click on Request new software on Tango.

Fill in the Software name and Software use case fields

Click on Submit

The screenshot shows the University of South Australia Tango 2.0 High Performance Compute website's "Request new software on Tango 2.0 HPC" page. The page features a navigation menu on the left with options like Home, Tango 2.0 Queries, and Additional Resources. The main content area is titled "Request new software on Tango 2.0 HPC" and contains a form with fields for "Software name:" and "Software use case:". A red arrow points to the "Submit" button. At the bottom, there are contact and social media links.

13. To submit a request for additional compute allocation, click on Request additional compute allocation  
Type the Amount needed, Justification, Associated Research Project and Timeframe  
Click on Submit

The screenshot shows a web browser window with the URL [tango.unisa.edu.au/Resource/AdditionalComputeRequest](http://tango.unisa.edu.au/Resource/AdditionalComputeRequest). The page header includes the University of South Australia logo and navigation links for STUDY, RESEARCH, PARTNER, and NEWS & EVENTS. The main heading is "TANGO 2.0 High Performance Compute".

**Navigation**

- Home**
  - Your SSH Key
  - Logout
- Tango 2.0 Queries**
  - View Tango 2.0 Cluster Status
  - View Job Queue on Tango 2.0
  - View Tango 2.0 Software Catalogue
- Additional Resources**
  - Request new software on Tango 2.0
  - Request additional compute allocation** (highlighted with a red box)
  - Help Documentation and User Guides

**Request additional compute allocation**

Please fill out the following form to request additional compute allocation on the Tango 2.0 HPC cluster.

Amount needed:

Justification:

Associated Research Project:

Timeframe:

(indicated by a red arrow)

If you require any assistance, please contact the UniSA IT Help Desk on (08) 8302 5000 or by email [ithelpdesk@unisa.edu.au](mailto:ithelpdesk@unisa.edu.au)

Footer: Contact us | General Enquiries | Connect with UniSA (Facebook, Twitter, LinkedIn, YouTube, Instagram)

If you require any HPC assistance, please contact the UniSA IT Help Desk on (08) 8302 5000 or by email [ithelpdesk@unisa.edu.au](mailto:ithelpdesk@unisa.edu.au)

