

ISU Green Team Documentation for ANL 2017 CDC



For additional support or questions about this document email: anlcdc2017@iastate.edu.

Note: Emails should be sent from outside of the competition network.

Logging In	3
SSH	3
FTP	4
Uploading and Downloading Files	5
Commenting on Posts	7
Accessing and Operating ICS/HMI	9
Help Desk	12
Requesting Support	12
Answering Requests	13
Email	15
Logging in	15
Sending email	15
Reading email	16
Appendix	17
Employee Accounts	17
Passphrases	17

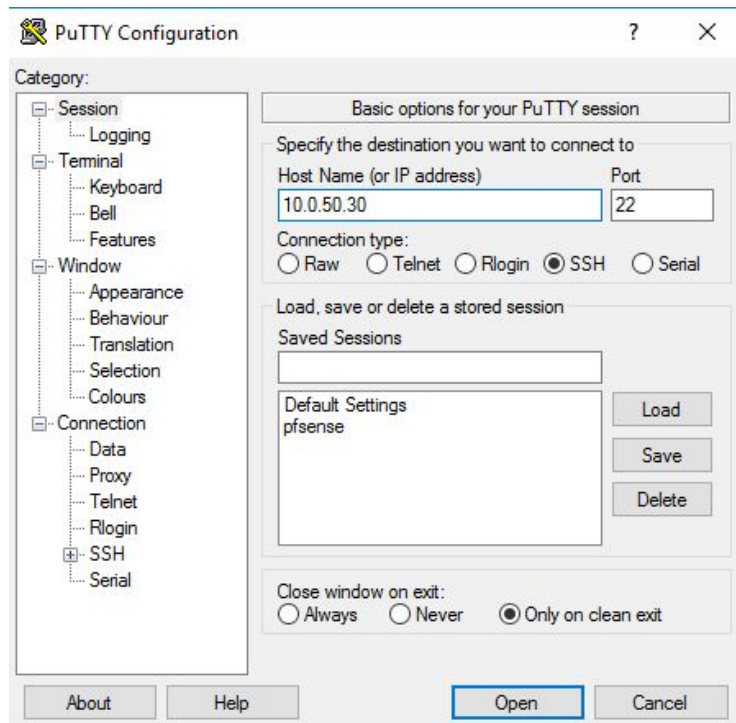
Logging In

SSH

Users are able to SSH into the servers by using SSH software (ssh for Mac/Linux, Putty for Windows). Putty is available for download at:

<http://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

To connect, open putty and enter the hostname/IP of the device you want to connect to as shown below.



Then press “Open”. You will be prompted for a username + password where you should enter your credentials. If they are correct, you will be given a shell session.

FTP

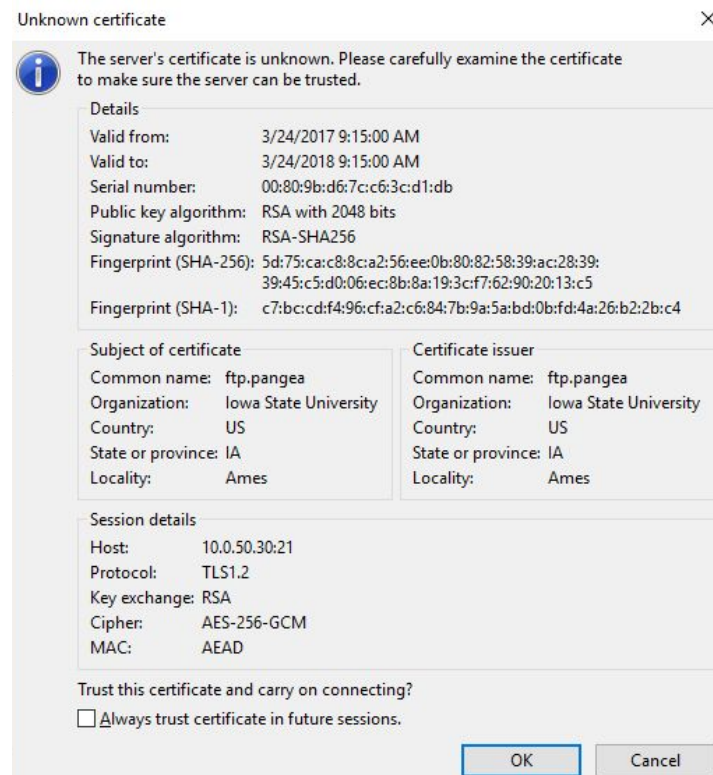
Users are able to FTP into the FTP server to upload and download documents. To login, open the FileZilla client on the Remote Desktop.

<https://filezilla-project.org/download.php?type=client>

To connect, open FileZilla and *ftpes://10.0.50.30* into the “host field”, your username and password from the (accounts table in the appendix of this document), and 21 into the port field as shown below.



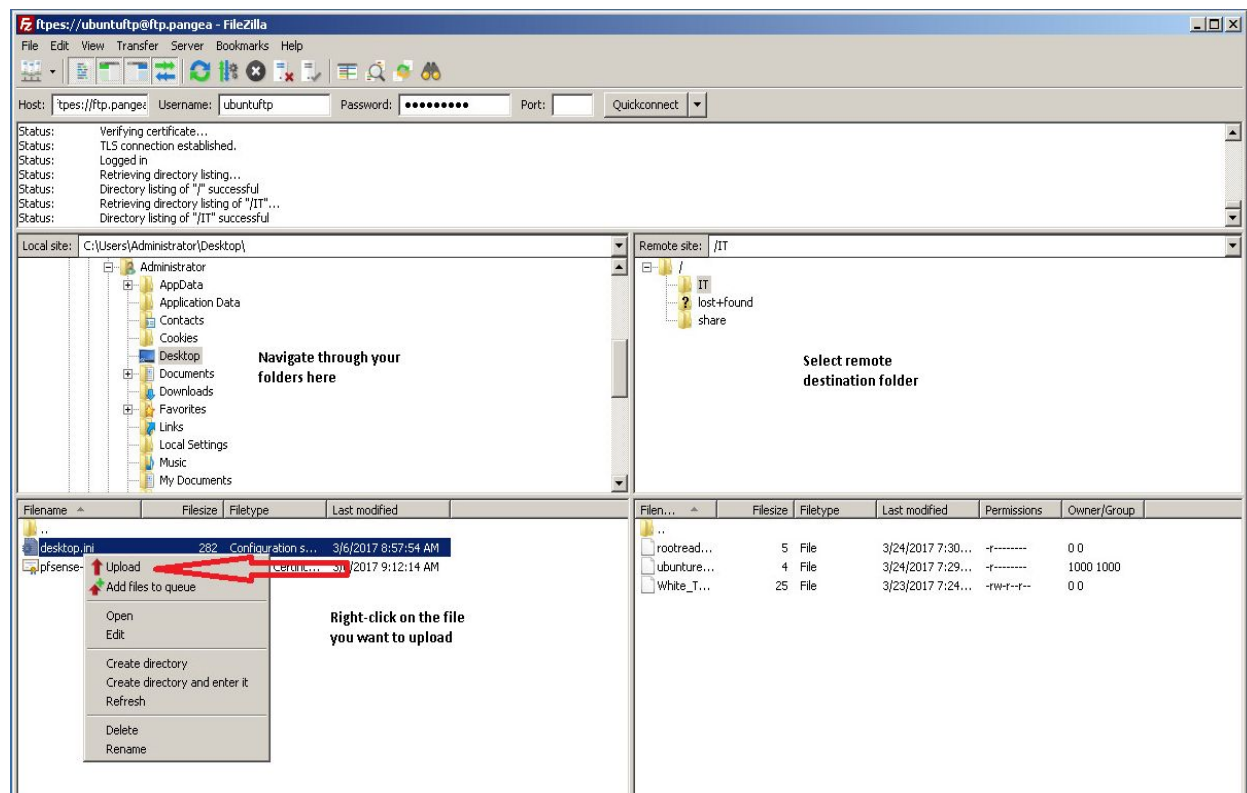
Press the button on the right “Quickconnect” to connect to the server. You will be prompted with a pop-up asking you to trust the encryption certificate of our server. Press “OK” to continue.



You should now be logged in.

Uploading and Downloading Files

Uploading files can be accomplished by logging into FTP with your user account (see [Logging In](#)). You will be presented with a directory that can be used to upload files. Your uploaded files will be stored on the File Server. Simply navigate to the folder of the source file in the left-hand side of the program, and the destination in the right. Then, left click on the file you would like to upload and select "Upload".

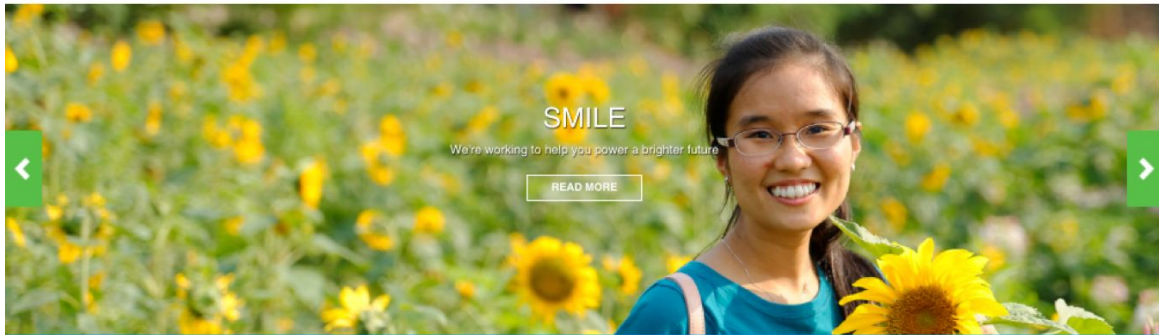


You can download files by signing into the web site with your user account.

In your web browser, navigate to the following address:



Once you get to the website, login in the lower right corner of the page. You must login in order to access the File Server documents. See the Employee Accounts table in the appendix section of this document for login credentials.



1. Find us

Discover us in your area

2. Learn to save

See how we can help you

3. Register

Sign up for energy savings

News Story 3

Posted on: 15 January 2017 By: drupal

Aliquam sagittis magna eget urna fermentum. at varius enim egestas. Vivamus eleifend hendrerit feugiat. Donec bibendum sapien eu molestie fringilla. Suspendisse nec massa viverra, aliquam leo vel, varius nulla. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilla Curae; Aenean dignissim tortor magna, at pharetra est pulvinar eu. Aenean ut pharetra risus, vel placerat magna. Aenean dictum tristique ipsum quis lacinia. Ut tempus justo nec arcu feugiat porta.

[Read more](#) [Add new comment](#)

News Story 2

Posted on: 15 January 2017 By: drupal

Vestibulum at sapien iaculis augue eleifend maximus ut ac sem. Nulla viverra nec eros non volutpat. Pellentesque pellentesque augue quis elit tempor lacinia. Etiam quis scelerisque ipsum. Vivamus vehicula nec orci at gravida. Integer lacinia, turpis nec vestibulum sagittis, erat enim iaculis odio, id laoreet justo ante et lectus. Donec elementum sapien suscipit risus egestas molestie. Integer elementum mauris purus, nec auctor eros commodo sit amet. Etiam vulputate quis magna non cursus. Integer porta luctus ex, id facilisis erat posuere ut. Fusce ultricies rhoncus felis viverra portitor.

[Read more](#) [Add new comment](#)

News Story 1

Posted on: 15 January 2017 By: drupal

QUICKLINKS

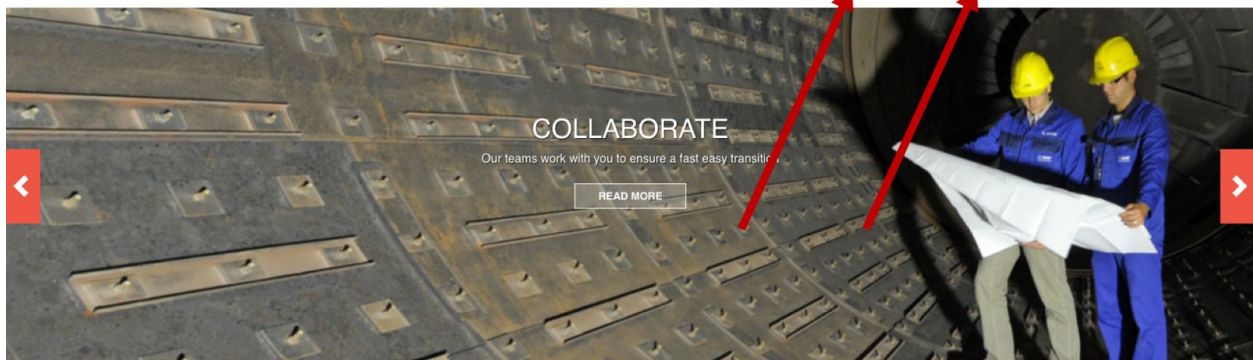
- [About Us](#)
- [Outages](#)
- [Privacy Policy](#)
- [Polls](#)
- [Ways to Save](#)
- [Forums](#)

Username *

Password *

[Create new account](#)

After signing into your user account you will be able to download files by clicking on the “Employee Documentation” tab. Note that the “IT Documentation” link can be used to download files from the File Server only if your user account has the proper permission.



1. Find us

Discover us in your area

2. Learn to save

See how we can help you

3. Register

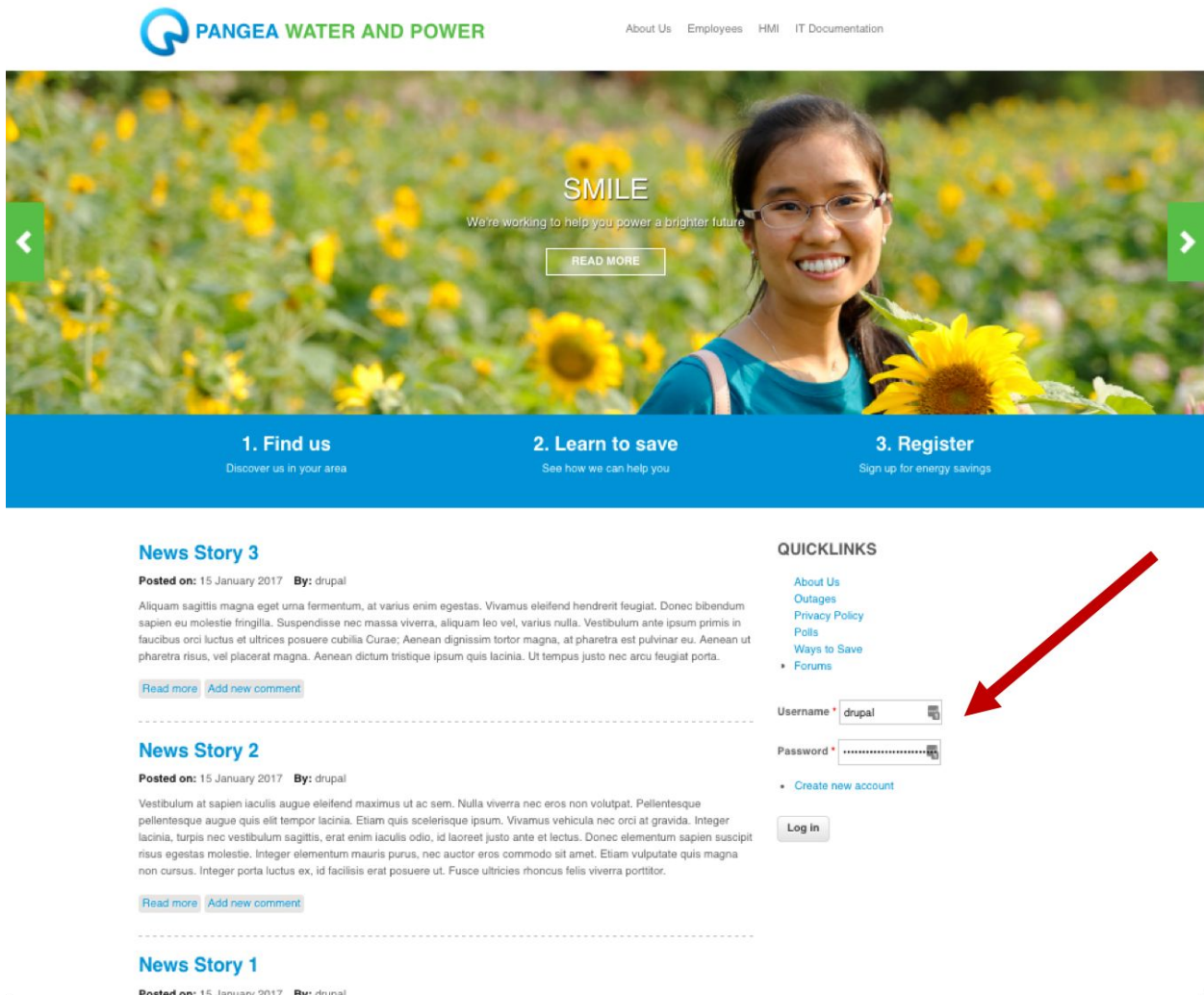
Sign up for energy savings

Commenting on Posts

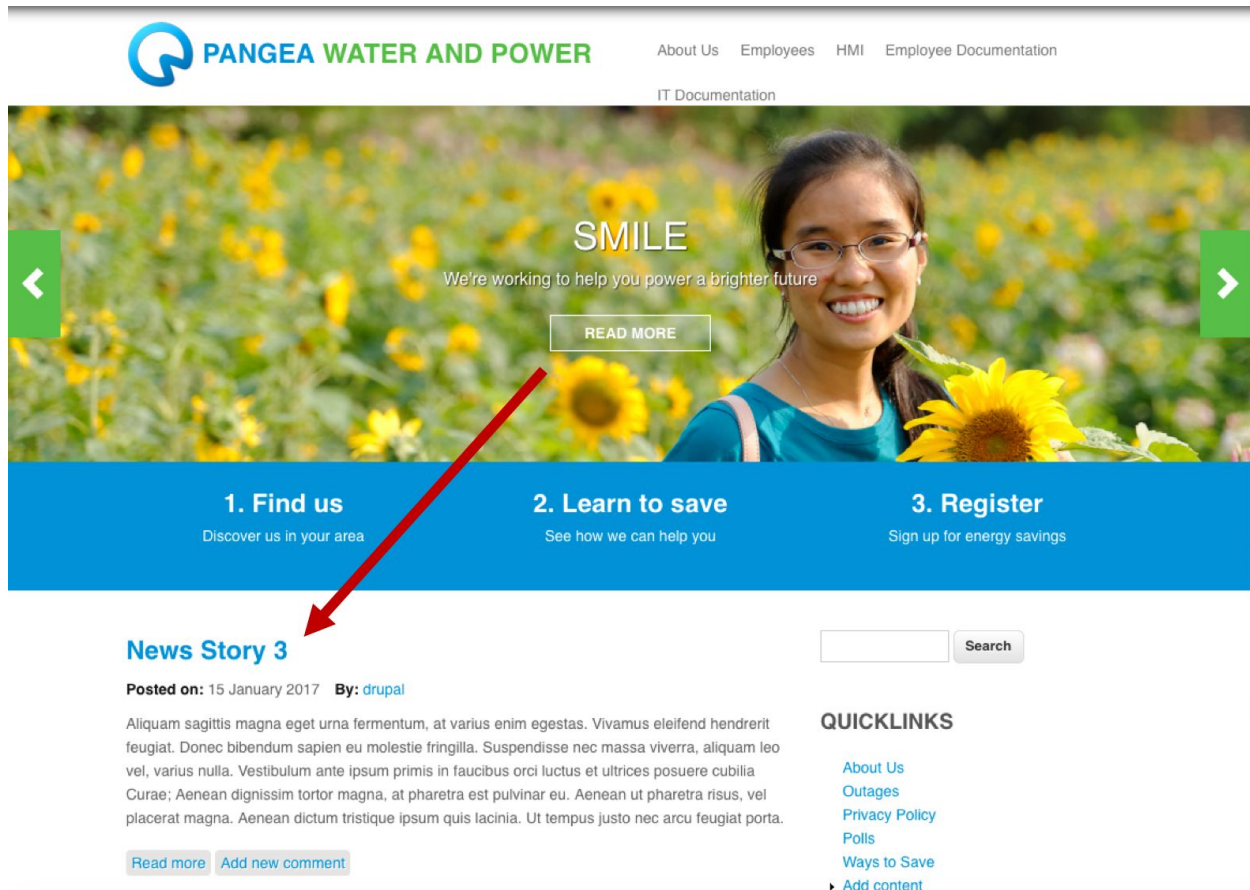
In your web browser, navigate to the following address:

A screenshot of a web browser's address bar. It features navigation icons (back, forward, refresh) on the left, the address "10.0.50.70" in the center, and a star icon on the right.

Once you get to the website, login in the lower right corner of the page. You must login in order to comment on a post. See the Employee Accounts table in the appendix section of this document for login credentials.

A screenshot of the Pangea Water and Power website. The header includes the company logo and navigation links. The main banner features a woman smiling in a field of sunflowers with the text "SMILE" and "We're working to help you power a brighter future". Below the banner are three columns: "1. Find us", "2. Learn to save", and "3. Register". The main content area displays three news stories, each with a "Read more" and "Add new comment" link. On the right, a "QUICKLINKS" section lists various links, and a login form is present with fields for "Username" (containing "drupal") and "Password", a "Log in" button, and a "Create new account" link. A red arrow points to the "Log in" button.

Next, click on the link to go to the post you wish to comment.



At the end of the post is where you can submit comments. If you do not login, the comment section will not be available. Make sure to fill in all the necessary fields before hitting save and submitting your comment.

libero, pellentesque sit amet feugiat eget, ornare at tellus. Vivamus condimentum, ipsum ac lacinia tempus, ligula nisi scelerisque quam, in interdum leo est id lorem. Vestibulum vitae sagittis orci, eget pulvinar ex. Sed dapibus, enim sed malesuada mollis, est quam malesuada nunc, scelerisque mollis tellus tortor nec ex. Sed vehicula dui sit amet dui venenatis pellentesque. Phasellus purus metus, hendrerit nec aliquet quis, vestibulum non felis. Cras aliquam maximus magna quis consectetur.

Add new comment

Your name [drupal](#)

Subject

Comment *

Text format [Filtered HTML](#) [More information about text formats](#)

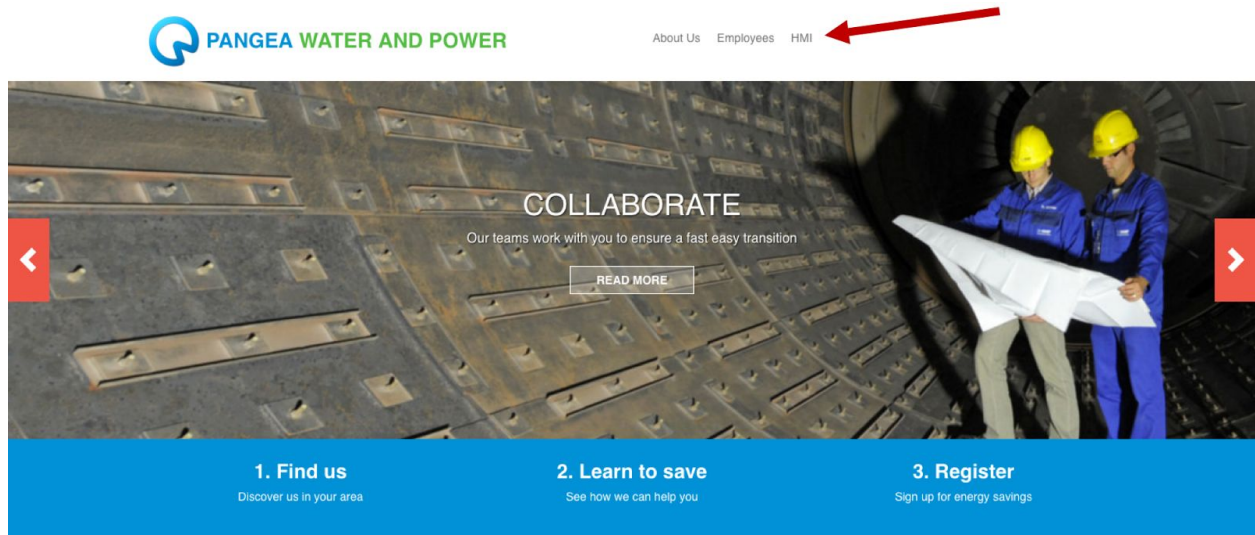
- Web page addresses and e-mail addresses turn into links automatically.
- Allowed HTML tags: <a> <cite> <blockquote> <code>
- Lines and paragraphs break automatically.

[Save](#) [Preview](#)

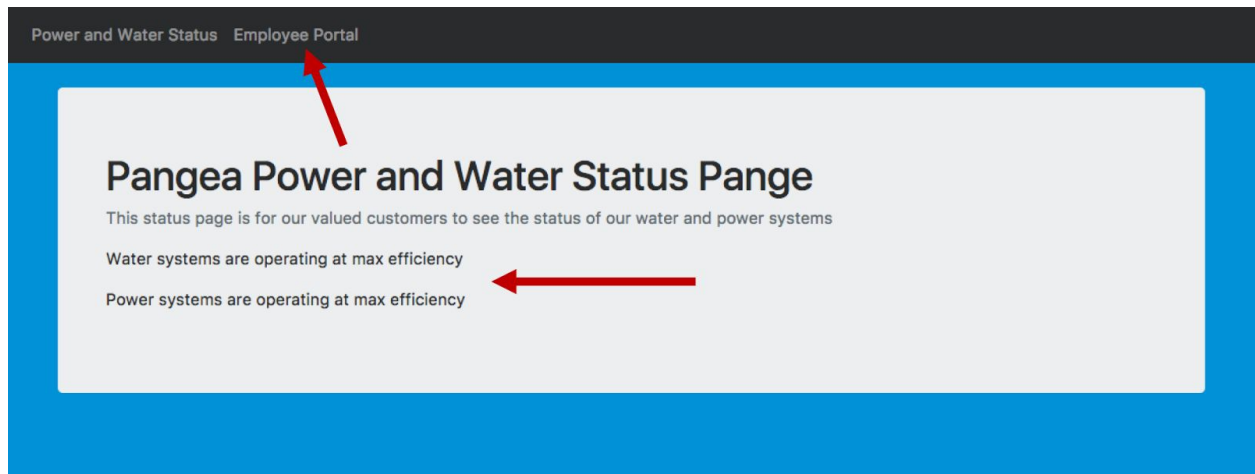
Accessing and Operating ICS/HMI

In your web browser, navigate to the following address: <http://192.168.2.2>. If the 192.168.2.2 address does not work please try <http://10.0.50.70>.

Then click the “HMI” link at the top of the page. NOTE: If this page is inaccessible you can access the HMI console directly by browsing to <https://10.0.50.50>. If the “https” version does not work please try connecting to <http://10.0.50.50>.



The link will then take you to the Pangea Power and Water Status Page. From here you can see the current status of both the water and power systems. To login, click the “Employee Portal” link at the top of the page.



Enter your employee credentials, which are listed in the Employee Accounts tables shown in the appendix of this document. **You must obtain a One Time Password (OTP) which is valid for 1 hour by calling the toll free number 1-877-844-1072 and entering your employee's badge number followed by their assigned PIN number followed by the # key.**

Please note that not all employees have permission to operation pumps or electrical equipment. Your HMI session will expire after 2 minutes of inactivity!

Andrea Thompson can operate **Water**, **Power**, and the **Kill Switch**.

Jane Wright and **Ted Fritz** can operate **Water**.

Crystal Licht can operate **Power**.

All users can view the power and water status.

Please logout when you are finished!

HMI Login

a.thompson (Username)

***** (Password)

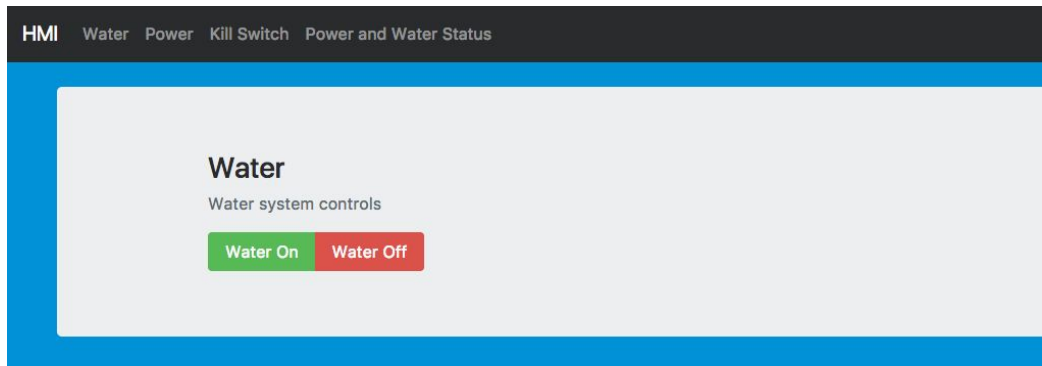
**** (One Time Password)

Login

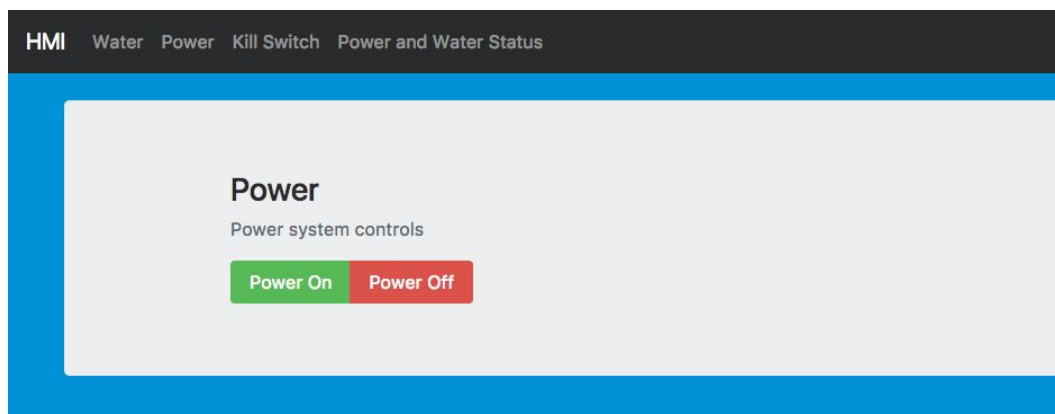
©Pangea Power and Water 2017

Upon successful login you will be redirected to the HMI power and water status page. The actions available to you are based on your user's role and current authentication level.

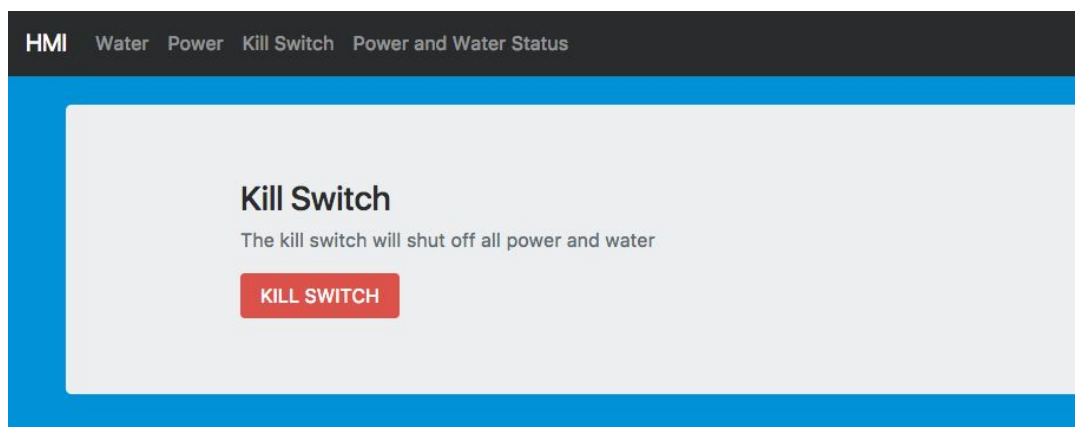
To turn on or off the water pump, you must have at least the permission level of a pump technician and navigate to the "Water" link.



To turn on or off the electric grid, you must have at least the permission level of an electrical engineer and navigate to the “Power” link.



In the event of an emergency, a user with permissions to access both the power and water may activate the “Kill Switch”, which immediately shuts down both the power grid and water pump.



Help Desk

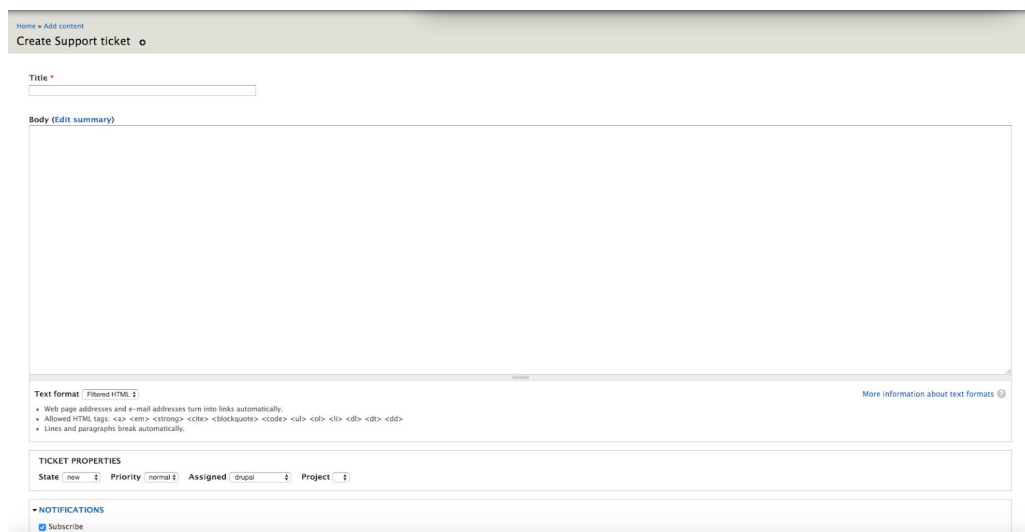
Requesting Support

In your web browser, navigate to the following address:

<http://192.168.2.2/node/add/support-ticket>

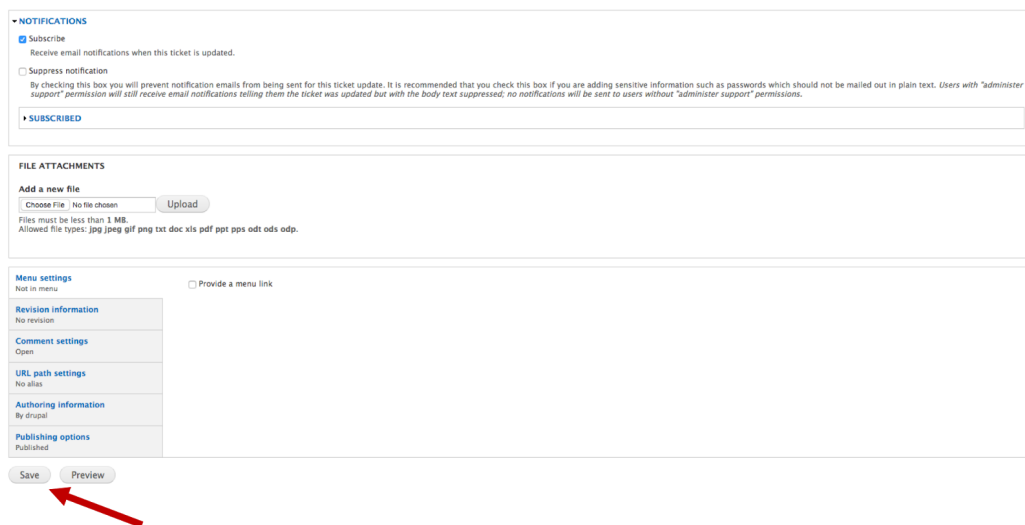
If the 192.168.2.2 address does not work <http://10.0.50.70/node/add/support-ticket>.

Enter a title and message for your new help desk ticket.



The screenshot shows the 'Create Support ticket' form. At the top, there's a navigation bar with 'Home' and 'Add content'. Below it, the form title is 'Create Support ticket'. The form has a 'Title' field and a large 'Body (edit summary)' text area. Below the text area, there's a 'Text format' dropdown set to 'Filtered HTML'. A list of allowed HTML tags is shown: <a>, , , <cite>, <blockquote>, <code>, , , <div>, <div>, <div>. Below this, there's a 'TICKET PROPERTIES' section with dropdowns for 'State' (set to 'new'), 'Priority' (set to 'normal'), 'Assigned' (set to 'drupal'), and 'Project' (set to 'drupal'). At the bottom, there's a 'NOTIFICATIONS' section with a 'Subscribe' checkbox checked.

Scroll down, upload and necessary files, and press save to submit your help desk ticket.



The screenshot shows the bottom part of the 'Create Support ticket' form. It includes a 'NOTIFICATIONS' section with a 'Subscribe' checkbox checked and a 'Supress notification' checkbox unchecked. Below this is a 'FILE ATTACHMENTS' section with a 'Choose File' button and an 'Upload' button. At the bottom, there's a 'Menu settings' section with a 'Provide a menu link' checkbox unchecked. The 'Menu settings' section has a list of settings: 'Revision information' (No revision), 'Comment settings' (Open), 'URL path settings' (No alias), 'Authoring information' (By drupal), and 'Publishing options' (Published). At the very bottom, there are 'Save' and 'Preview' buttons, with a red arrow pointing to the 'Save' button.

Answering Requests

In your web browser, navigate to the following address: <http://192.168.2.2/support>

If the 192.168.2.2 address does not work please try <http://10.0.50.70/support>.

Click on a ticket you wish to comment/answer.

The screenshot shows the PANGEA WATER AND POWER support ticket system. At the top is the company logo and navigation links: About Us, Employees, HMI, Employee Documentation, and IT Documentation. Below this is a blue banner with three sections: 1. Find us (Discover us in your area), 2. Learn to save (See how we can help you), and 3. Register (Sign up for energy savings). The main content area is titled 'Employee Tickets' and includes a breadcrumb trail: Home » Support tickets » Employee Tickets. Below the title are tabs for ticket status: all, all open, my open, new, active, pending, and closed. A link 'Post new support ticket +' is also present. A table lists the tickets with columns: Id, Ticket, Updated, Reported by, Assigned to, State, Priority, and Updates. A red arrow points to the 'Site is slow' ticket (Id #15).

Id	Ticket	Updated	Reported by	Assigned to	State	Priority	Updates
#19	Test 2	02/17/2017 - 19:34	drupal	drupal	new	normal	0
#15	Site is slow	01/24/2017 - 19:14	drupal	- not assigned -	new	critical	1
#14	Password reset	01/23/2017 - 22:28	drupal	drupal	new	high	0

Below the post is the comment section where you can answer/comment on the help request. To comment, make sure you fill in both the Subject and Comment fields.

Site is slow

[View](#) [Edit](#)

Posted on: 23 January 2017 By: [drupal](#)

Pages are taking a really long time to load.

[Add new comment](#)

Comments

[drupal](#)
Tue,
01/24/2017
- 19:14
[permalink](#)

(No subject)

Assigned: [unassigned](#) -> [unassigned](#)
Client: -> [Employee Tickets](#)
State: -> [new](#)
Priority: -> [critical](#)
[delete](#) [edit](#) [reply](#)

Your name [drupal](#)

Subject

Fixed

Comment

We fixed it!

Text format [Filtered HTML](#)

[More information about text formats](#)

Once you've filled in all the required fields, click the save button at the bottom of the page to submit your comment/answer.

Text format [Filtered HTML](#)

[More information about text formats](#)

- Web page addresses and e-mail addresses turn into links automatically.
- Allowed HTML tags: `<a>` `` `` `<cite>` `<blockquote>` `<code>` `` `` `` `<dl>` `<dt>` `<dd>`
- Lines and paragraphs break automatically.

Ticket properties

State Priority Assigned [new](#) [critical](#) [- not assigned](#)

Notifications

☒ **Subscribe**

Receive email notifications when this ticket is updated.

☐ **Suppress notification**

By checking this box you will prevent notification emails from being sent for this ticket update. It is recommended that you check this box if you are adding sensitive information such as passwords which should not be mailed out in plain text. Users with "administer support" permission will still receive email notifications telling them the ticket was updated but with the body text suppressed; no notifications will be sent to users without "administer support" permissions.

[Subscribed](#)

File attachments

Add a new file [Choose File](#) No file chosen

[Upload](#)

Files must be less than 1 MB.
Allowed file types: [jpg](#) [jpeg](#) [gif](#) [png](#) [txt](#) [doc](#) [xls](#) [pdf](#) [ppt](#) [pps](#) [odt](#) [ods](#) [odp](#).

[Save](#)

[Preview](#)

Email

Logging in



The screenshot shows a web browser window with the address bar displaying "10.0.50.60/squirrelmail/src/login.php". The page features the SquirrelMail logo, which includes a squirrel and the text "SquirrelMail webmail for nuts". Below the logo, it says "SquirrelMail version 1.4.23 [SVN] By the SquirrelMail Project Team". The main heading is "Pangea Login". There are two input fields: "Name:" and "Password:". Below the "Password:" field is a "Login" button.

To check and send email, go to 10.0.50.60 in your web browser. Enter your username in the name field and enter your password in the password field.

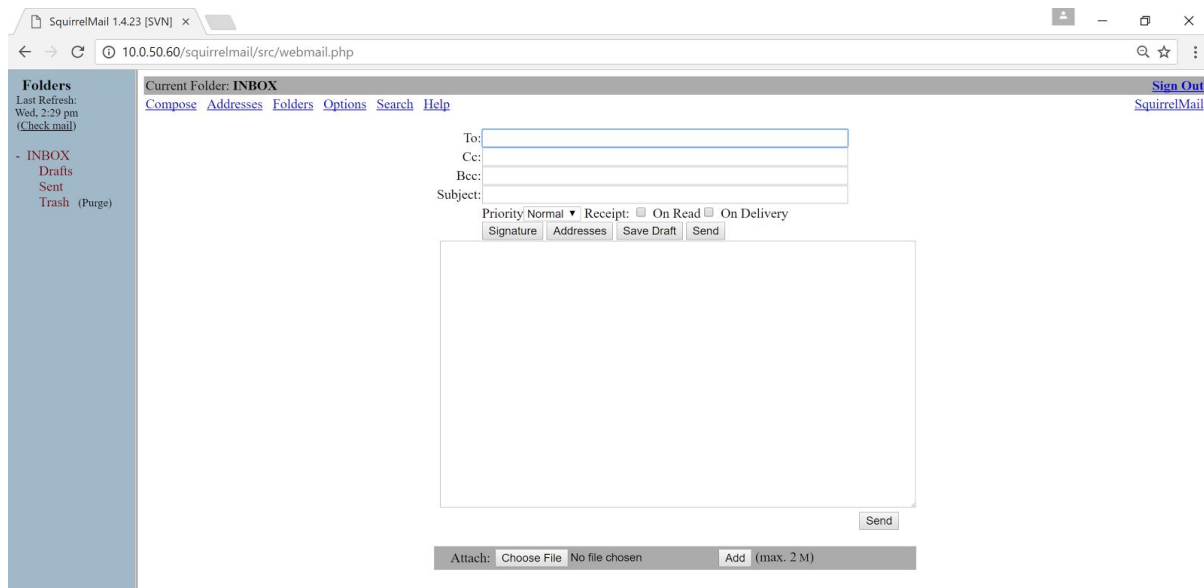
Sending email

To send an email, click the compose button.



The screenshot shows the SquirrelMail webmail interface. The browser address bar displays "10.0.50.60/squirrelmail/src/webmail.php". On the left, there is a "Folders" sidebar with a tree view showing "INBOX", "Drafts", "Sent", and "Trash (Purge)". The main area shows "Current Folder: INBOX". Below this, there are links for "Compose", "Addresses", "Folders", "Options", "Search", and "Help". There are also "Sign Out" and "SquirrelMail" links. A "Move Selected To:" section shows "INBOX" selected with "Move" and "Forward" buttons. A "Transform Selected Messages:" section has "Read", "Unread", and "Delete" buttons. Below these is a table header with "From", "Date", and "Subject" columns. The table body contains the text "THIS FOLDER IS EMPTY".

Enter the recipient's email address into the To: field, the subject into the Subject: field, and the body of the email into the large text box on the bottom. When you are done writing your email, click the send button.

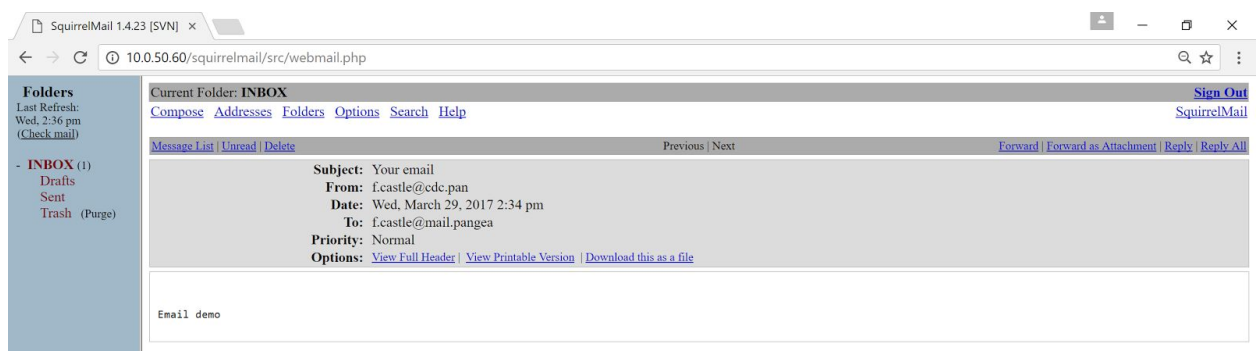


Reading email

To read an email, click the blue subject link:



Emails will look like this:



Appendix

Employee Accounts

NAME	ROLE	BADGE#	EMAIL	PHONE	USERNAME	PASSWORD	PIN#
Frank Castle	CEO	4421	f.castle@cdc.pan	555-122-4121	f.castle	4&6w!R\$HsV*HEZ2	8203
Lisa Delrose	Prime Minister	8723	l.delrose@cdc.pan	555-122-8723	l.delrose	z8AbDFMW8fw&2d	7351
Chuck Wheeler	CIO	3637	c.wheeler@cdc.pan	555-122-3637	c.wheeler	vuF3hykRy@x868z	6211
James Hoyt	Secretary	5345	j.hoyt@cdc.pan	555-122-5345	j.hoyt	w4dgWVEU*86z44M	4914
Sandra Wilhelm !!PREVIOUSLY COMPROMISED!!	Maintenance	6365	s.wilhelm@cdc.pan	555-122-6365	s.wilhelm	MgHvBsW8\$8Z7hqH	9361
Patricia Emerson	CSO	8373	p.emerson@cdc.pan	555-122-8373	p.emerson	e#6j29a*H57fkz^	5101
Piotre Luther	Grounds Keeper	2383	p.luther@cdc.pan	555-122-2383	p.luther	j7\$t4A447!xMD^Z	6628
Karen Holmes	Security Officer	1122	k.holmes@cdc.pan	555-122-1122	k.holmes	3knPFdBvEjd6G!\$	8819
Simon Smith	Intern	9923	s.smith@cdc.pan	555-122-9923	s.smith	hR!@p\$pwUp7p@q2	2315
Jane Wright	Pump Technician	3342	j.wright@cdc.pan	555-122-3342	j.wright	3xn&zBZpYbSa8Gg	9274
Ted Fritz	Pump Technician	9121	t.fritz@cdc.pan	555-122-9121	t.fritz	G%@j9gSa8ZBq2Fd	4918
Crystal Licht	Electrical Engineer	2287	c.licht@cdc.pan	555-122-2287	c.licht	7jf4kdq3K^\$*X&@	1029
Holly Peterson	Software Engineer	2342	h.peterson@cdc.pan	555-122-2342	h.peterson	RYVGEHX^m7Hg3\$8	7384
Brad Wells	Web Design	1022	b.wells@cdc.pan	555-122-1022	b.wells	8UJnZlqXjkS\$t64	1946
Susan Taylor	Database Admin	3234	s.taylor@cdc.pan	555-122-3234	s.taylor	j43%@3UT\$VKVD7D	1082

Passphrases

Note: If Blue team asks you to answer a challenge, please respond with the appropriate response below.

Challenge	Response
What is your favorite color?	I'm color blind.
Do you think Red team is listening?	Does it matter?